GW - 40

ANNUAL MONITORING REPORT

04/01/2008

GW040

Lodestar Services, Incorporated PO Box 3861 Farmington, NM 87499-3861 Office (970) 946-1093

April 1, 2008

Mr. Wayne Price
New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87504

Dear Mr. Price:

On behalf of Western Refining, Inc., Lodestar Services, Incorporated is pleased to present to you the *Annual Data Report, Giant Bloomfield Refinery, March, 2008.*

Should you have any questions or require additional information, please do not hesitate to call Bill Robertson of Western at (505) 632-4077 or myself at (970) 946-1093.

Sincerely,
LODESTAR SERVICES, INCORPORATED

Ashley Ager

Ashley Ager

Enclosure

cc w/enc.: Mr. Brandon Powell, OCD Aztec
Mr. Bill Robertson, Western Refining

GW040

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Oil Conservation Division
Environmental Bureau

Annual Data Report
Former Giant Bloomfield Refinery

March 2008

Prepared For

Western Refining

Western Refining, Inc.
111 CR 4990
Bloomfield, New Mexico

Lodestar Services, Incorporated
PO Box 3861 Farmington, NM 87499-3861 Office (970) 946-1093

Annual Report 2007, Former Giant Refinery
Western Refining, Inc.
March 2008

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PO Box 3861 Farmington, NM 87499-3861 Office (970) 946-1093

1.0 INTRODUCTION AND METHODOLOGY

Introduction

The following annual report describes work completed at Western Refining, Inc.'s (Western's) former refinery in Bloomfield, New Mexico since the previous annual report submitted in March 2007. The report contains data collected during 2007 including:

- Analytical data from groundwater sampling;
- Groundwater elevations;
- Product levels from monitoring wells;
- Tank volume data.

The refinery is located in the NW ¼ of Section 27 and the SW ¼ of Section 22, Township 29 N, Range 12W in San Juan County, New Mexico. It is on the corner of Highway 64 and County Road 350, approximately 5 miles west of the town of Bloomfield, New Mexico (Figure 1). The facility consists of the former Giant Bloomfield Refinery and associated remedial equipment both within and south of the refinery boundary. The refinery operated from 1974 to 1982 and is presently inactive.

A remedial system was installed in stages beginning in 1988 and gradually has been simplified over time. Remediation was designed to treat groundwater affected by various releases during operation of the former refinery and periodic spills at the truck unloading facility. It consists of a series of groundwater monitoring wells, groundwater recovery wells, water treatment facilities and treated water infiltration trenches (Figure 2). The system processed approximately 2,599,613 gallons of water in 2007.

Methodology

Impacted groundwater is pumped from the aquifer through a series of recovery wells located strategically within the affected area. Recovery wells are utilized to create a hydraulic barrier and prevent migration of affected water beyond the well. A hydraulic barrier is formed as water is pumped through the recovery well, thereby depressing the water table. Figure 3 illustrates the concept. Sufficient recovery wells are placed

throughout the site so that the radii of influence from adjacent wells overlap, and a barrier is formed across the plume to prevent migration of affected water.

Impacted groundwater is collected in a storage tank (Tank 102) and subsequently treated. The method of treatment used at the former Bloomfield Refinery is carbon adsorption, where recovered water is pumped into a carbon filtration tank. Inside, volatile and non-volatile organic compounds are adsorbed into a carbon matrix lining the tank.

The treated water is discharged into the aquifer through an infiltration trench. The infiltration trench consists of a subsurface distribution system placed within gravel packs. Water infiltrates the surrounding strata and eventually makes its way back to the aquifer. The return of recovered water to the aquifer serves as a recharge mechanism. Figure 4 is a simplified diagram representation of groundwater recovery, treatment and disposal at the former refinery.

Monitoring at the site consists of regular inspections and maintenance of facilities, as well as regular sampling of groundwater on site. Section 2 describes the sampling program. Results are presented in Section 3. Numerous monitoring wells are located within and south of the refinery (Figure 2). Analytical results of groundwater samples collected from monitoring wells help determine the effectiveness and progress of remedial efforts. In addition to sampling, water and product levels in each well are determined quarterly. This information is tabulated and utilized to prepare potentiometric surface maps. Water levels are included in Section 4. Any measured product levels are also shown. Figures 5-8 are potentiometric surface maps for 2007 water levels. The contours on the maps represent the elevation of surface of the groundwater for each quarter. The maps are useful in determining direction of groundwater flow and effectiveness of hydraulic control achieved by the recovery well system. Additionally, oil absorbent socks are installed in all monitoring wells showing free-phase hydrocarbons. These socks are checked quarterly and replaced as necessary.

Regular weekly inspections are performed to assure safe and efficient operation of the remediation system. The Control Panel, located in the Dispatch Office, serves to monitor and control the operation of the treatment system, while providing alarm and shutdown functions to safeguard against spills and other undesirable events. The Control Panel is checked weekly. An inspection is also made in the control building at Tank 102, the southern infiltration gallery and each recovery well. Treated effluent volumes and flow rates are monitored weekly with a water meter that has been installed near the carbon

adsorption tank. These values are recorded and compared with previous readings to ensure normal operation. Maintenance of the system includes repair and replacement of well pumps, replacement of filters in well houses, equipment lubrication, air compressor oil changes, adding nutrients as necessary, listening for unusual pump and motor noise, inspecting the carbon pre-filter and repairing all equipment as required. Observations are recorded in a bound field logbook with the date, time and person recording the information noted. All equipment is inspected for leaks and malfunctions. The operator is familiar with the location of underground lines and notes any surface indication of underground leaks. Leaks of any size are noted and repaired.

Modifications to the Sampling Schedule

In 2005, Giant Industries (now Western) requested approval from the New Mexico Oil Conservation Division (NMOCD) to change the sampling schedule for groundwater wells located downgradient of the refinery. The proposed changes were based on historical results from sampling conducted at the site and are detailed in the letter dated March 13, 2005. Giant intended to plug and abandon nine groundwater monitoring wells and one groundwater recovery well and initiate closure sampling on additional monitoring wells. The following wells were to be abandoned:

Type of Well	Identification	Years of Monitoring Beneath Standards
Monitoring	SHS-3	7
Monitoring	SHS-4	8
Monitoring	SHS-6	8
Monitoring	SHS-10	8
Monitoring	SHS-12	8
Monitoring	SHS-13	8
Recovery	SHS-14	3
Monitoring	SHS-15	8
Monitoring	SHS-16	8
Monitoring	SHS-17	7

The proposal suggests quarterly sampling at wells SHS-9, SHS-18 and SHS-19 until the analytical results from four consecutive quarters are beneath New Mexico Water Quality Control Commission (NMWQCC) standards, at which time those wells could be abandoned. Wells SHS-1, SHS-2, SHS-5 and SHS-8 had not previously been included on the sampling schedule. Giant proposed annual sampling at these wells until laboratory analyses indicate the groundwater is beneath NMWQCC standards. At that time

sampling should be conducted quarterly until the analytical results from four consecutive quarters are beneath standards and closure can be pursued.

The NMOCD has not formally responded to this proposal. Subsequently, Giant submitted a revised sample schedule in Discharge Plan GW040 in 2006 and an amended Discharge Plan GW040 in 2007 to remove the wells listed above from the sampling matrix and discontinue pumping well SHS-14 based on the number of clean reporting quarters.

The revised sampling schedule was instituted in October of 2006. The wells listed for abandonment were last sampled in the first quarter of 2006. They were not sampled in 2007. Quarterly sampling of groundwater from SHS-9, SHS-18 and SHS-19 began in November 2007. In order to move forward with site closure, Western intends to continue sampling according to the revised schedule and to begin annual sampling of SHS-1, SHS-2, SHS-5 and SHS-8 beginning in January of 2008.

Table 1 shows the revised schedule followed in 2007, and Table 2 shows the schedule to be carried out in 2008.

Table 1. Giant Industries, Inc. Bloomfield Refinery Sampling Schedule for 2007

LOCATION	Jan 2007	Feb 2007	Mar 2007	Apr 2007	May 2007	Jun 2007	July 2007	Aug 2007	Sept 2007	Oct 2007	Nov 2007	Dec 2006
System Influent	601 602 GWC			601 602 GWC			601 602 GWC			601 602 GWC		
System Effluent	601 602 GWC Metals PAH			601 602 GWC			601 602 GWC			601 602 GWC		
GRW-3	601 602 GWC PAH											
GRW-6	601 602 GWC PAH											
GBR-17*												*601* *602* *GWC* *PAH*
GBR-24D	601 602 GWC PAH											
GBR-30	601 602 GWC PAH											
GBR-31	601 602 GWC PAH											
GBR-32*												*601* *602* *GWC* *Metals*
GBR-48*												*601* *602* *GWC* *Metals*
GBR-49*												*601* *602* *GWC* *Metals*

LOCATION	Jan 2007	Feb 2007	Mar 2007	Apr 2007	May 2007	Jun 2007	July 2007	Aug 2007	Sept 2007	Oct 2007	Nov 2007	Dec 2006
GBR-50*												*601* *602* *GWC* *Metals*
GBR-51	601 602 GWC											
GBR-52	601 602 GWC											
SHS-9											601 602	
SHS-18											601 602	
SHS-19											601 602	

NOTES:
All wells have water and free product elevations determined on a quarterly basis.
Wells exhibiting free product are not sampled.
601 and 602 refer to United States Environmental Protection Agency methods for organic chemical analysis.
GWC refers to groundwater characteristics.
*First quarter sampling for 2007 was conducted in Dec. 2006.

Table 2. Giant Industries, Inc. Bloomfield Refinery Sampling Schedule for 2008

LOCATION	Jan 2008	Feb 2008	Mar 2008	Apr 2008	May 2008	Jun 2008	July 2008	Aug 2008	Sept 2008	Oct 2008	Nov 2008	Dec 2008
System Influent	601 602 GWC			601 602 GWC			601 602 GWC			601 602 GWC		
System Effluent	601 602 GWC Metals PAH			601 602 GWC			601 602 GWC			601 602 GWC		
GRW-3	601 602 GWC PAH											
GRW-6	601 602 GWC PAH											
GBR-17	601 602 GWC PAH											
GBR-24D	601 602 GWC PAH											
GBR-30	601 602 GWC PAH											
GBR-31	601 602 GWC PAH											
GBR-32	601 602 GWC Metals											
GBR-48	601 602 GWC Metals											
GBR-49	601 602 GWC Metals											

LOCATION	Jan 2008	Feb 2008	Mar 2008	Apr 2008	May 2008	Jun 2008	July 2008	Aug 2008	Sept 2008	Oct 2008	Nov 2008	Dec 2008
GBR-50	601 602 GWC Metals											
GBR-51	601 602 GWC											
GBR-52	601 602 GWC											
SHS-1*	601 602 GWC											
SHS-2*	601 602 GWC											
SHS-5*	601 602 GWC											
SHS-8*	601 602 GWC											
SHS-9†	601 602 GWC			601 602 GWC			601 602 GWC					
SHS-18†	601 602 GWC			601 602 GWC			601 602 GWC					
SHS-19†	601 602 GWC			601 602 GWC			601 602 GWC					

NOTES:
All wells have water and free product elevations determined on a quarterly basis.
Wells exhibiting free product are not sampled.
601 and 602 refer to United States Environmental Protection Agency methods for organic chemical analysis.
GWC refers to groundwater characteristics.
*If results from annual sampling are below NMWQCC standards, quarterly sampling will begin in April.
†If four quarters of samples are below NMWQCC standards, wells will be abandoned.

2.0 SAMPLING PROGRAM

Introduction

Table 1 describes water sampling conducted at the Giant Bloomfield Refinery during 2007. Influent and effluent water quality is monitored to verify compliance with NMWQCC standards. System influent and effluent is sampled and analyzed for general chemistry, halocarbons and aromatics on a quarterly basis throughout the year. Facility effluent is also sampled annually for PAHs and metals. Recovery and monitoring wells are sampled as shown in Table 1.

Methodology

Influent water is collected from a system valve prior to entering storage Tank 102. Samples of effluent water are collected through a sample valve as treated water exits the carbon adsorption tank. Water is collected in appropriate pre-cleaned and/or pre-preserved sample bottles or glass vials. For EPA methods 601 and 602 analyses, vials are filled and capped with no air inside to prevent degradation of the sample. Samples are labeled with the date and time of collection, sample designation, project name, collector's name and parameters to be analyzed. They are immediately sealed and packed on ice. The samples are shipped to Pinnacle Laboratories in Albuquerque, NM in a sealed cooler via UPS before designated holding times expire. Proper chain-of-custody (COC) procedures are followed with logs documenting the date and time sampled, sample number, type of sample, sampler's name, preservative used, analyses required and sampler's signatures.

Prior to sampling monitoring and wells, depth to ground water and total depth of wells is measured with a Keck oil/water interface probe. Presence of any free-phase crude oil is also investigated using the interface probe. The interface probe is decontaminated with Alconox™ soap and rinsed with de-ionized water prior to each measurement. The volume of water in the wells is calculated, and a minimum of three casing volumes of water is purged from each well using a disposable bailer or a permanent decontaminated PVC bailer. As water is extracted, pH, electric conductivity and temperature are monitored. Wells are purged until these properties stabilize or the well bails dry, indicating that the purge water is representative of aquifer conditions. Stabilization is

defined as three consecutive stable readings for each water property (±0.4 units for pH, ±10 percent for electric conductivity and ±2° C for temperature). Once each monitoring well is properly purged, groundwater samples are collected in bottles or vials and shipped to the laboratory as described above. The method for sampling recovery wells is similar, the difference being that pumps installed within the wells are used to purge groundwater.

3.0 ANNUAL ANALYTICAL RESULTS

Lab results detailing the quality of groundwater sampled at the Giant Bloomfield Refinery is shown in Table 2. Raw data, as received from the laboratory, is available on request as a supplement to the annual report. Toxic pollutants, as defined by NMWQCC standards, are absent from influent and effluent water. Results indicate most analytes are not detected. When constituents are present, they are detected only in trace amounts.

The analytical results presented in Table 3 are listed in units as described below:

	Unit of Measure
Total dissolved solids (180)	mg/l
Total dissolved solids (calc)	mg/l
Total alkalinity as CaCO3	mg/l
Total hardness as CaCO3	mg/l
Bicarbonate as HCO3	mg/l
Carbonate as CO3	mg/l
Chloride	mg/l
Sulfate	mg/l
Calcium	mg/l
Magnesium	mg/l
Potassium	mg/l
Sodium	mg/l
Laboratory Conductivity	µmhos/cm

The remainder of the data is measured in µg/l.

Table 3. Giant Industries, Inc. Bloomfield Refinery 2007 Annual Analytical Data

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
SYSTEM EFFLUENT						
Lab pH	8.1	7.2	7.6	8.0		
Lab Conductivity@25C	3160	3400	3330	2940		
Total Dissolved Solids (Calc)	2250	2360	2320	2000		
Total Alkalinity as CaCO3	338	410	480	656		
Total Hardness as CaCO3	727	669	618	548		
Bicarbonate as HCO3	337	409	478	654		
Carbonate as CO3	nd	1.61	1.79	2.09		
Hydroxide	nd	nd	nd	nd		
Chloride	nd	77.9	78.9	91.1		
Sulfate	1270	1360	1000	549		
Calcium	251	229	234	195		
Magnesium	24.6	23.4	25	29.5		
Potassium	9.77	7.94	11.9	2.62		
Sodium	357	356	399	452		
HALOCARBONS						
Bromodichloromethane	nd	nd	nd	nd		
Bromoform	nd	nd	nd	nd		
Bromomethane	nd	nd	nd	nd		
Carbon Tetrachloride	nd	nd	nd	nd		
Chloroethane	nd	nd	nd	nd		
Chloroform	nd	nd	nd	nd		
Chloromethane	nd	nd	nd	nd		
Dibromochloromethane	nd	nd	nd	nd		
1,2-Dibromomethane (EDB)	nd	nd	nd	nd		
1,2-Dichlorobenzene	nd	nd	nd	nd		
1,3-Dichlorobenzene	nd	nd	nd	nd		
1,4-Dichlorobenzene	nd	nd	nd	nd		
1,1-Dichloroethane	nd	nd	nd	nd		
1,2-Dichloroethane (EDC)	nd	nd	nd	nd		
1,1-Dichoroethene	nd	nd	nd	nd		
trans-1,2-Dichloroethene	nd	nd	nd	nd		
1,2-Dichloropropane	nd	nd	nd	nd		
cis-1,3-Dichloropropene	nd	nd	nd	nd		
trans-1,3-Dichloropropene	nd	nd	nd	nd		
Methylene Chloride	nd	nd	nd	nd		
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd		

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Tetrachloroethane	nd	nd	nd	nd		
1,1,1-Trichloroethane	nd	nd	nd	nd		
1,1,2-Trichloroethane	nd	nd	nd	nd		
Trichloroethene	nd	nd	nd	nd		
Trichlorofluoromethane	nd	nd	nd	nd		
Vinyl Chloride	nd	nd	nd	nd		
AROMATICS						
Benzene	nd	nd	nd	nd		
Chlorobenzene	nd	nd	nd	nd		
1,2-Dichlorobenzene	nd	nd	nd	nd		
1,3-Dichlorobenzene	nd	nd	nd	nd		
1,4-Dichlorobenzene	nd	nd	nd	nd		
Ethylbenzene	nd	nd	nd	nd		
Methyl-t-Butyl Ether	nd	nd	nd	nd		
Toluene	nd	nd	nd	nd		
Total Xylenes	nd	nd	nd	nd		
PAH						
1-Methylnapthalene	nd					
2-Methylnapthalene	nd					
Benzo(a)pyrene	nd					
Napthalene	nd					
METALS (mg/l)						
Antimony	nd					
Arsenic	nd					
Beryllium	nd					
Cadmium	nd					
Chromium	0.009					
Copper	0.009					
Lead	nd					
Nickel	0.043					
Selenium	nd					
Silver	0.002					
Thallium	nd					
Zinc	nd					
Mercury	nd					
SYSTEM INFLUENT						
Lab pH	7.9	7.3	7.7	7.4		

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Lab Conductivity@25C	3480	3780	3220	3130		
Total Dissolved Solids (Calc)	2550	2370	2320	1960		
Total Alkalinity as CaCO3	316	422	512	652		
Total Hardness as CaCO3	941	658	642	537		
Bicarbonate as HCO3	315	421	510	650		
Carbonate as CO3	nd	1.59	1.89	2.07		
Hydroxide	nd	nd	nd	nd		
Chloride	nd	77	79	93.2		
Sulfate	1510	1390	1070	566		
Calcium	330	226	245	192		
Magnesium	28.2	22.9	24.6	28.6		
Potassium	10.9	7.43	12.4	2.6		
Sodium	389	350	400	439		
HALOCARBONS						
Bromodichloromethane	nd	nd	nd	nd		
Bromoform	nd	nd	nd	nd		
Bromomethane	nd	nd	nd	nd		
Carbon Tetrachloride	nd	nd	nd	nd		
Chloroethane	nd	nd	nd	nd		
Chloroform	nd	nd	nd	nd		
Chloromethane	nd	nd	nd	nd		
Dibromochloromethane	nd	nd	nd	nd		
1,2-Dibromomethane (EDB)	nd	nd	nd	nd		
1,2-Dichlorobenzene	nd	nd	nd	nd		
1,3-Dichlorobenzene	nd	nd	nd	nd		
1,4-Dichlorobenzene	nd	nd	nd	nd		
1,1-Dichloroethane	nd	nd	nd	nd		
1,2-Dichloroethane (EDC)	nd	nd	nd	nd		
1,1-Dichoroethene	nd	nd	nd	nd		
trans-1,2-Dichloroethene	nd	nd	nd	nd		
1,2-Dichloropropane	nd	nd	nd	nd		
cis-1,-Dichloropropene	nd	nd	nd	nd		
trans-1,2-Dichloropropene	nd	nd	nd	nd		
Methylene Chloride	nd	nd	nd	nd		
1,1,2,2-Tetrachloroethane	nd	nd	nd	nd		
Tetrachloroethane	nd	nd	nd	nd		
1,1,1-Trichloroethane	nd	nd	nd	nd		
1,1,2-Trichloroethane	nd	nd	nd	nd		
Trichloroethene	nd	nd	nd	nd		
Trichlorofluoromethane	nd	nd	nd	nd		

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Vinyl Chloride	nd	nd	nd	nd		
AROMATICS						
Benzene	nd	nd	nd	nd		
Chlorobenzene	nd	nd	nd	nd		
1,2-Dichlorobenzene	nd	nd	nd	nd		
1,3-Dichlorobenzene	nd	nd	nd	nd		
1,4-Dichlorobenzene	nd	nd	nd	nd		
Ethylbenzene	nd	nd	nd	nd		
Methyl-t-Butyl Ether	nd	nd	nd	nd		
Toluene	nd	nd	nd	nd		
Total Xylenes	nd	nd	nd	nd		
GRW-3						
Lab pH	8					
Lab Conductivity@25C	2620					
Total Dissolved Solids (Calc)	1710					
Total Alkalinity as CaCO3	750					
Total Hardness as CaCO3	499					
Bicarbonate as HCO3	748					
Carbonate as CO3	1.65					
Hydroxide	nd					
Chloride	nd					
Sulfate	580					
Calcium	152					
Magnesium	28.9					
Potassium	6.71					
Sodium	329					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	4.6					
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
PAH						
1-Methylnapthalene	1.87					
2-Methylnapthalene	0.27					
Benzo(a)pyrene	nd					
Napthalene	1.09					
GRW-6						
Lab pH	8.3					
Lab Conductivity@25C	2870					
Total Dissolved Solids (Calc)	576					
Total Alkalinity as CaCO3	619					
Total Hardness as CaCO3	576					
Bicarbonate as HCO3	618					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Carbonate as CO3	1.52					
Hydroxide	nd					
Chloride	nd					
Sulfate	926					
Calcium	182					
Magnesium	29.8					
Potassium	6.7					
Sodium	402					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
PAH						
1-Methylnapthalene	nd					
2-Methylnapthalene	nd					
Benzo(a)pyrene	nd					
Napthalene	nd					
GBR-17						
Lab pH						7.0
Lab Conductivity@25C						2500
Total Dissolved Solids (Calc)						2000
Total Alkalinity as CaCO3						164
Total Hardness as CaCO3						696
Bicarbonate as HCO3						163
Carbonate as CO3						nd
Hydroxide						nd
Chloride						48
Sulfate						1400
Calcium						273
Magnesium						22.6
Potassium						7.27
Sodium						222
HALOCARBONS						
Bromodichloromethane						nd
Bromoform						nd
Bromomethane						nd
Carbon Tetrachloride						nd
Chloroethane						nd
Chloroform						nd
Chloromethane						nd
Dibromochloromethane						nd
1,2-Dibromomethane (EDB)						nd
1,2-Dichlorobenzene						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
1,1-Dichloroethane						nd
1,2-Dichloroethane (EDC)						nd
1,1-Dichoroethene						nd
trans-1,2-Dichloroethene						nd
1,2-Dichloropropane						nd
cis-1,-Dichloropropene						nd
trans-1,2-Dichloropropene						nd
Methylene Chloride						nd
1,1,2,2-Tetrachloroethane						nd
Tetrachloroethane						nd
1,1,1-Trichloroethane						nd
1,1,2-Trichloroethane						nd
Trichloroethene						nd
Trichlorofluoromethane						nd
Vinyl Chloride						nd
AROMATICS						
Benzene						nd
Chlorobenzene						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
Ethylbenzene						nd
Methyl-t-Butyl Ether						nd
Toluene						nd
Total Xylenes						nd
GBR-24D						
Lab pH	8					
Lab Conductivity@25C	4500					
Total Dissolved Solids (Calc)	3490					
Total Alkalinity as CaCO3	213					
Total Hardness as CaCO3	1220					
Bicarbonate as HCO3	213					
Carbonate as CO3	nd					
Hydroxide	nd					
Chloride	190					
Sulfate	2000					
Calcium	421					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Magnesium	40.5					
Potassium	14.7					
Sodium	503					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	0.4					
1,2-Dichloroethane (EDC)	2.6					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					
Methyl-t-Butyl Ether	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Toluene	nd					
Total Xylenes	nd					
PAH						
1-Methylnapthalene	nd					
2-Methylnapthalene	nd					
Benzo(a)pyrene	nd					
Napthalene	nd					
GBR-30						
Lab pH	8					
Lab Conductivity@25C	3320					
Total Dissolved Solids (Calc)	2570					
Total Alkalinity as CaCO3	259					
Total Hardness as CaCO3	1070					
Bicarbonate as HCO3	259					
Carbonate as CO3	nd					
Hydroxide	nd					
Chloride	144					
Sulfate	1420					
Calcium	370					
Magnesium	35.2					
Potassium	11.7					
Sodium	284					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
PAH						
1-Methylnapthalene	nd					
2-Methylnapthalene	nd					
Benzo(a)pyrene	nd					
Napthalene	nd					
GBR-31						
Lab pH	7.9					
Lab Conductivity@25C	3280					
Total Dissolved Solids (Calc)	2590					
Total Alkalinity as CaCO3	228					
Total Hardness as CaCO3	933					
Bicarbonate as HCO3	228					
Carbonate as CO3	nd					
Hydroxide	nd					
Chloride	nd					
Sulfate	1540					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Calcium	328					
Magnesium	27.9					
Potassium	10.7					
Sodium	351					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	0.6					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
PAH						
1-Methylnapthalene	nd					
2-Methylnapthalene	nd					
Benzo(a)pyrene	nd					
Napthalene	nd					
GBR-32						
Lab pH						7.2
Lab Conductivity@25C						5480
Total Dissolved Solids (Calc)						3880
Total Alkalinity as CaCO3						228
Total Hardness as CaCO3						962
Bicarbonate as HCO3						227
Carbonate as CO3						nd
Hydroxide						nd
Chloride						480
Sulfate						1800
Calcium						363
Magnesium						39.5
Potassium						10.1
Sodium						564
HALOCARBONS						
Bromodichloromethane						nd
Bromoform						nd
Bromomethane						nd
Carbon Tetrachloride						nd
Chloroethane						nd
Chloroform						nd
Chloromethane						nd
Dibromochloromethane						nd
1,2-Dibromomethane (EDB)						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
1,1-Dichloroethane						nd
1,2-Dichloroethane (EDC)						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,1-Dichoroethene						nd
trans-1,2-Dichloroethene						nd
1,2-Dichloropropane						nd
cis-1,-Dichloropropene						nd
trans-1,2-Dichloropropene						nd
Methylene Chloride						nd
1,1,2,2-Tetrachloroethane						nd
Tetrachloroethane						nd
1,1,1-Trichloroethane						nd
1,1,2-Trichloroethane						nd
Trichloroethene						nd
Trichlorofluoromethane						nd
Vinyl Chloride						nd
AROMATICS						
Benzene						nd
Chlorobenzene						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
Ethylbenzene						nd
Methyl-t-Butyl Ether						nd
Toluene						nd
Total Xylenes						nd
METALS						
Calcium						363
Magnesium						39.5
Potassium						10.1
Sodium						564
Iron						1.24
Mangenese						1.04
GBR-48						
Lab pH						7.1
Lab Conductivity@25C						2700
Total Dissolved Solids (Calc)						1850
Total Alkalinity as CaCO3						176
Total Hardness as CaCO3						458
Bicarbonate as HCO3						175
Carbonate as CO3						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Hydroxide						nd
Chloride						140
Sulfate						820
Calcium						174
Magnesium						18.1
Potassium						7.27
Sodium						293
HALOCARBONS						
Bromodichloromethane						nd
Bromoform						nd
Bromomethane						nd
Carbon Tetrachloride						nd
Chloroethane						nd
Chloroform						nd
Chloromethane						nd
Dibromochloromethane						nd
1,2-Dibromomethane (EDB)						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
1,1-Dichloroethane						nd
1,2-Dichloroethane (EDC)						nd
1,1-Dichoroethene						nd
trans-1,2-Dichloroethene						nd
1,2-Dichloropropane						nd
cis-1,-Dichloropropene						nd
trans-1,2-Dichloropropene						nd
Methylene Chloride						nd
1,1,2,2-Tetrachloroethane						nd
Tetrachloroethane						nd
1,1,1-Trichloroethane						nd
1,1,2-Trichloroethane						nd
Trichloroethene						nd
Trichlorofluoromethane						nd
Vinyl Chloride						nd
AROMATICS						
Benzene						nd
Chlorobenzene						nd
1,2-Dichlorobenzene						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
Ethylbenzene						nd
Methyl-t-Butyl Ether						nd
Toluene						nd
Total Xylenes						nd
METALS						
Calcium						174
Magnesium						18.1
Potassium						7.27
Sodium						293
Iron						7.77
Mangenese						0.457
GBR-49						
Lab pH						6.4
Lab Conductivity@25C						4520
Total Dissolved Solids (Calc)						3460
Total Alkalinity as CaCO3						112
Total Hardness as CaCO3						1060
Bicarbonate as HCO3						112
Carbonate as CO3						nd
Hydroxide						nd
Chloride						280
Sulfate						2200
Calcium						406
Magnesium						38.8
Potassium						13.5
Sodium						495
HALOCARBONS						
Bromodichloromethane						nd
Bromoform						nd
Bromomethane						nd
Carbon Tetrachloride						nd
Chloroethane						nd
Chloroform						nd
Chloromethane						nd
Dibromochloromethane						nd
1,2-Dibromomethane (EDB)						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
1,1-Dichloroethane						nd
1,2-Dichloroethane (EDC)						nd
1,1-Dichoroethene						nd
trans-1,2-Dichloroethene						nd
1,2-Dichloropropane						nd
cis-1,-Dichloropropene						nd
trans-1,2-Dichloropropene						nd
Methylene Chloride						nd
1,1,2,2-Tetrachloroethane						nd
Tetrachloroethane						0.6
1,1,1-Trichloroethane						nd
1,1,2-Trichloroethane						nd
Trichloroethene						nd
Trichlorofluoromethane						nd
Vinyl Chloride						nd
AROMATICS						
Benzene						5.4
Chlorobenzene						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
Ethylbenzene						nd
Methyl-t-Butyl Ether						nd
Toluene						nd
Total Xylenes						nd
METALS						
Calcium						406
Magnesium						38.8
Potassium						13.5
Sodium						495
Iron						120
Mangenese						5.91
GBR-50						
Lab pH						6.7
Lab Conductivity@25C						3510

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Total Dissolved Solids (Calc)						2600
Total Alkalinity as CaCO3						225
Total Hardness as CaCO3						956
Bicarbonate as HCO3						224
Carbonate as CO3						nd
Hydroxide						nd
Chloride						61
Sulfate						1700
Calcium						378
Magnesium						5.73
Potassium						326
Sodium						
HALOCARBONS						nd
Bromodichloromethane						nd
Bromoform						nd
Bromomethane						nd
Carbon Tetrachloride						nd
Chloroethane						nd
Chloroform						nd
Chloromethane						nd
Dibromochloromethane						nd
1,2-Dibromomethane (EDB)						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
1,1-Dichloroethane						nd
1,2-Dichloroethane (EDC)						nd
1,1-Dichoroethene						nd
trans-1,2-Dichloroethene						nd
1,2-Dichloropropane						nd
cis-1,-Dichloropropene						nd
trans-1,2-Dichloropropene						nd
Methylene Chloride						nd
1,1,2,2-Tetrachloroethane						nd
Tetrachloroethane						nd
1,1,1-Trichloroethane						nd
1,1,2-Trichloroethane						nd
Trichloroethene						nd
Trichlorofluoromethane						nd
Vinyl Chloride						nd

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
AROMATICS						
Benzene						nd
Chlorobenzene						nd
1,2-Dichlorobenzene						nd
1,3-Dichlorobenzene						nd
1,4-Dichlorobenzene						nd
Ethylbenzene						nd
Methyl-t-Butyl Ether						nd
Toluene						nd
Total Xylenes						nd
METALS						
Calcium						378
Magnesium						28.9
Potassium						9.04
Sodium						326
Iron						5.73
Mangenese						0.373
GBR-51						
Lab pH	8.1					
Lab Conductivity@25C	3290					
Total Dissolved Solids (Calc)	2620					
Total Alkalinity as CaCO3	215					
Total Hardness as CaCO3	1120					
Bicarbonate as HCO3	214					
Carbonate as CO3	nd					
Hydroxide	nd					
Chloride	nd					
Sulfate	1570					
Calcium	398					
Magnesium	30.6					
Potassium	9.53					
Sodium	282					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
GBR-52						
Lab pH	8.1					
Lab Conductivity@25C	2920					
Total Dissolved Solids (Calc)	2280					
Total Alkalinity as CaCO3	203					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Total Hardness as CaCO3	971					
Bicarbonate as HCO3	202					
Carbonate as CO3	nd					
Hydroxide	nd					
Chloride	nd					
Sulfate	1370					
Calcium	344					
Magnesium	27.3					
Potassium	9.70					
Sodium	253					
HALOCARBONS						
Bromodichloromethane	nd					
Bromoform	nd					
Bromomethane	nd					
Carbon Tetrachloride	nd					
Chloroethane	nd					
Chloroform	nd					
Chloromethane	nd					
Dibromochloromethane	nd					
1,2-Dibromomethane (EDB)	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
1,1-Dichloroethane	nd					
1,2-Dichloroethane (EDC)	nd					
1,1-Dichoroethene	nd					
trans-1,2-Dichloroethene	nd					
1,2-Dichloropropane	nd					
cis-1,-Dichloropropene	nd					
trans-1,2-Dichloropropene	nd					
Methylene Chloride	nd					
1,1,2,2-Tetrachloroethane	nd					
Tetrachloroethane	nd					
1,1,1-Trichloroethane	nd					
1,1,2-Trichloroethane	nd					
Trichloroethene	nd					
Trichlorofluoromethane	nd					
Vinyl Chloride	nd					
AROMATICS						

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Benzene	nd					
Chlorobenzene	nd					
1,2-Dichlorobenzene	nd					
1,3-Dichlorobenzene	nd					
1,4-Dichlorobenzene	nd					
Ethylbenzene	nd					
Methyl-t-Butyl Ether	nd					
Toluene	nd					
Total Xylenes	nd					
SHS-9						
HALOCARBONS						
Bromodichloromethane					nd	
Bromoform					nd	
Bromomethane					nd	
Carbon Tetrachloride					nd	
Chloroethane					nd	
Chloroform					nd	
Chloromethane					nd	
Dibromochloromethane					nd	
1,2-Dibromomethane (EDB)					nd	
1,2-Dichlorobenzene					nd	
1,3-Dichlorobenzene					nd	
1,4-Dichlorobenzene					nd	
1,1-Dichloroethane					nd	
1,2-Dichloroethane (EDC)					nd	
1,1-Dichoroethene					nd	
trans-1,2-Dichloroethene					nd	
1,2-Dichloropropane					nd	
cis-1,-Dichloropropene					nd	
trans-1,2-Dichloropropene					nd	
Methylene Chloride					nd	
1,1,2,2-Tetrachloroethane					nd	
Tetrachloroethane					nd	
1,1,1-Trichloroethane					nd	
1,1,2-Trichloroethane					nd	
Trichloroethene					nd	
Trichlorofluoromethane					nd	
Vinyl Chloride					nd	
AROMATICS						

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
Benzene					nd	
Chlorobenzene					nd	
1,2-Dichlorobenzene					nd	
1,3-Dichlorobenzene					nd	
1,4-Dichlorobenzene					nd	
Ethylbenzene					nd	
Methyl-t-Butyl Ether					nd	
Toluene					nd	
Total Xylenes					nd	
SHS-18						
Lab pH	9					
Lab Conductivity@25C	2500					
Total Dissolved Solids (Calc)	1530					
Total Alkalinity as CaCO3	897					
Total Hardness as CaCO3	385					
Bicarbonate as HCO3	893					
Carbonate as CO3	3.63					
Hydroxide	nd					
Chloride	111					
Sulfate	109					
Calcium	129					
Magnesium	15.4					
Potassium	4.56					
Sodium	354					
HALOCARBONS						
Bromodichloromethane	nd				nd	
Bromoform	nd				nd	
Bromomethane	nd				nd	
Carbon Tetrachloride	nd				nd	
Chloroethane	nd				nd	
Chloroform	nd				nd	
Chloromethane	nd				nd	
Dibromochloromethane	nd				nd	
1,2-Dibromomethane (EDB)	nd				nd	
1,2-Dichlorobenzene	nd				nd	
1,3-Dichlorobenzene	nd				nd	
1,4-Dichlorobenzene	nd				nd	
1,1-Dichloroethane	nd				nd	

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
1,2-Dichloroethane (EDC)	nd				nd	
1,1-Dichoroethene	nd				nd	
trans-1,2-Dichloroethene	nd				nd	
1,2-Dichloropropane	nd				nd	
cis-1,-Dichloropropene	nd				nd	
trans-1,2-Dichloropropene	nd				nd	
Methylene Chloride	nd				nd	
1,1,2,2-Tetrachloroethane	nd				nd	
Tetrachloroethane	nd				nd	
1,1,1-Trichloroethane	nd				nd	
1,1,2-Trichloroethane	nd				nd	
Trichloroethene	nd				nd	
Trichlorofluoromethane	nd				nd	
Vinyl Chloride	nd				nd	
AROMATICS						
Benzene	nd				nd	
Chlorobenzene	nd				nd	
1,2-Dichlorobenzene	nd				nd	
1,3-Dichlorobenzene	nd				nd	
1,4-Dichlorobenzene	nd				nd	
Ethylbenzene	0.5				nd	
Methyl-t-Butyl Ether	nd				nd	
Toluene	nd				nd	
Total Xylenes	nd				nd	
SHS-19						
Lab pH	7.2					
Lab Conductivity@25C	2600					
Total Dissolved Solids (Calc)	1650					
Total Alkalinity as CaCO3	786					
Total Hardness as CaCO3	423					
Bicarbonate as HCO3	785					
Carbonate as CO3	1.80					
Hydroxide	nd					
Chloride	85.6					
Sulfate	460					
Calcium	135					
Magnesium	20.8					
Potassium	7.16					
Sodium	370					

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
HALOCARBONS						
Bromodichloromethane	nd				nd	
Bromoform	nd				nd	
Bromomethane	nd				nd	
Carbon Tetrachloride	nd				nd	
Chloroethane	nd				nd	
Chloroform	nd				nd	
Chloromethane	nd				nd	
Dibromochloromethane	nd				nd	
1,2-Dibromomethane (EDB)	nd				nd	
1,2-Dichlorobenzene	nd				nd	
1,3-Dichlorobenzene	nd				nd	
1,4-Dichlorobenzene	nd				nd	
1,1-Dichloroethane	nd				nd	
1,2-Dichloroethane (EDC)	nd				nd	
1,1-Dichoroethene	nd				nd	
trans-1,2-Dichloroethene	nd				nd	
1,2-Dichloropropane	nd				nd	
cis-1,-Dichloropropene	nd				nd	
trans-1,2-Dichloropropene	nd				nd	
Methylene Chloride	nd				nd	
1,1,2,2-Tetrachloroethane	nd				nd	
Tetrachloroethane	nd				nd	
1,1,1-Trichloroethane	nd				nd	
1,1,2-Trichloroethane	nd				nd	
Trichloroethene	nd				nd	
Trichlorofluoromethane	nd				nd	
Vinyl Chloride	nd				nd	
AROMATICS						
Benzene	nd				nd	
Chlorobenzene	nd				nd	
1,2-Dichlorobenzene	nd				nd	
1,3-Dichlorobenzene	nd				nd	
1,4-Dichlorobenzene	nd				nd	
Ethylbenzene	nd				nd	
Methyl-t-Butyl Ether	nd				nd	
Toluene	nd				nd	
Total Xylenes	nd				nd	

	JAN 2007	APR 2007	JUL 2007	OCT 2007	NOV 2007	DEC 2006
NOTES: *First quarter sampling was conducted in December 2006.						

4.0 Water and Product Levels

Groundwater monitoring wells have been installed throughout the site of the former refinery to monitor groundwater quality and flow direction (Figure 2). Water and product levels in each well are determined quarterly. These data are presented in tables 4 and 5 and are utilized to prepare the potentiometric surface maps shown in figures 5-8. The contours on the maps represent the groundwater surface elevation. The rate of groundwater flow is, on average, 0.633 ft/ft in a southwest direction, and is consistent throughout the year. Wells containing measurable product levels are fitted with oil-absorbent socks, which are replaced as necessary. Free-phase product is consistently measured in GBR-23 and GBR-25 (Table 5).

Table 4. Giant Industries, Inc. Bloomfield Refinery 2007 Quarterly Water Levels

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
January 2007					
GRW-1	5394.30	54.62	-	-	5339.68
GRW-2	5391.28	49.65	-	-	5341.63
GRW-3	5388.77	53.12	-	-	5335.65
GRW-4	5390.02	58.99	-	-	5331.03
GRW-5	5390.56	64.88	-	-	5325.68
GRW-6	5390.81	48.28	-	-	5342.53
GRW-9	5395.70	53.03	-	-	5342.67
GRW-10	5395.02	58.95	58.84	0.01	5336.07
GRW-11	5397.85	57.86	-	-	5339.99
GRW-12	5397.24	water beneath pump	-	-	water beneath pump
GRW-13	5396.90	52.46	-	-	5344.44
GBR-5	5395.07	26.77	-	-	5368.3
GBR-7	5395.85	28.89	-	-	5366.96
GBR-8	5390.50	42.04	-	-	5348.46
GBR-9	5389.92	47.59	-	-	5342.33
GBR-10	5390.57	42.58	-	-	5347.99
GBR-11	5389.43	42.62	-	-	5346.81
GBR-13	5393.04	42.56	-	-	5350.48
GBR-15	5397.99	41.02	-	-	5356.97

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
GBR-18	5421.68	55.33	-	-	5366.35
GBR-19	5393.83	43.33	42.85	0.38	5350.5
GBR-20	5393.47	35.94	-	-	5357.53
GBR-21S	5400.65	26.22	-	-	5374.43
GBR-21D	5400.19	41.02	-	-	5359.17
GBR-22	5395.91	dry	-	-	dry
GBR-23	5403.72	29.7	29.68	0.02	5374.036
GBR-24S	5396.08	33.52	-	-	5362.56
GBR-24D	5396.77	34.93	-	-	5361.84
GBR-25	5396.72	38.68	37.83	0.85	5358.72
GBR-26	5395.59	38.09	-	-	5357.5
GBR-30	5396.58	36.44	-	-	5360.14
GBR-31	5394.86	37.53	-	-	5357.33
GBR-33†	5396.28	39.72	-	-	5356.56
GBR-34	5394.00	39.98			5354.02
GBR-35	5393.66	39.86			5353.8
GBR-39	5397.55	40.26	-	-	5357.29
GBR-40	5400.76	32.37	-	-	5368.39
GBR-41	5396.35	27.1	-	-	5369.25
GBR-51	5389.68	44.09	-	-	5345.59
GBR-52	5387.74	41.77	-	-	5345.97
SHS-1	5383.54	40.69	-	-	5342.85
SHS-2	5381.66	31.12	-	-	5350.54
SHS-3	5383.33	dry	-	-	-
SHS-4	5383.62	43.1	-	-	5340.52
SHS-5	5378.36	39.93	-	-	5338.43
SHS-6	5378.17	39.96	-	-	5338.21
SHS-8	5380.25	40.5	-	-	5339.75
SHS-9	5380.79	39.59	-	-	5341.2
SHS-10	5373.80	37.93	-	-	5335.87
SHS-12	5373.94	40.73	-	-	5333.21
SHS-13	5367.81	no access	-	-	no access
SHS-14	5367.07	35.46	-	-	5331.61
SHS-15	5366.21	35.36	-	-	5330.85
SHS-16	5362.58	33.12	-	-	5329.46
SHS-17	5364.35	34.46	-	-	5329.89
SHS-18	5373.64	40.97	-	-	5332.67

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
SHS-19	5378.89	43.56	-	-	5335.33
April 2007					
GRW-1	5394.30	53.67	-	-	5340.63
GRW-2	5391.28	42.15	-	-	5349.13
GRW-3	5388.77	54.11	-	-	5334.66
GRW-4	5390.02	58.35	-	-	5331.67
GRW-5	5390.56	64.65	-	-	5325.91
GRW-6	5390.81	48.38	-	-	5342.43
GRW-9	5395.70	48.07	-	-	5347.63
GRW-10	5395.02	53.35			5341.67
GRW-11	5397.85	36.32	-	-	5361.53
GRW-12	5397.24	water beneath pump	-	-	water beneath pump
GRW-13	5396.90	55.33	-	-	5341.57
GBR-5	5395.07	27.7	-	-	5367.37
GBR-7	5395.85	29.47	-	-	5366.38
GBR-8	5390.50	41.76	-	-	5348.74
GBR-9	5389.92	47.45	-	-	5342.47
GBR-10	5390.57	42.54	-	-	5348.03
GBR-11	5389.43	42.05	-	-	5347.38
GBR-13	5393.04	42.16	-	-	5350.88
GBR-15	5397.99	37.76	-	-	5360.23
GBR-18	5421.68	36.53	-	-	5385.15
GBR-19	5393.83	41.65	-	-	5352.18
GBR-20	5393.47	36.83	-	-	5356.64
GBR-21S	5400.65	27.04	-	-	5373.61
GBR-21D	5400.19	38.89	-	-	5361.3
GBR-22	5395.91	dry	-	-	dry
GBR-23	5403.72	30.44	30.36	0.08	5373.344
GBR-24S	5396.08	32.4	-	-	5363.68
GBR-24D	5396.77	33.53	-	-	5363.24
GBR-25	5396.72	38.25	37.74	0.51	5358.878
GBR-26	5395.59	34.84	-	-	5360.75
GBR-30	5396.58	35.7	-	-	5360.88
GBR-31	5394.86	36.54	-	-	5358.32
GBR-33†	5396.28	38.18	-	-	5358.1
GBR-34	5394.00	38.29	-	-	5355.71

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
GBR-35	5393.66	38.33	-	-	5355.33
GBR-39	5397.55	37.33	-	-	5360.22
GBR-40	5400.76	32.28	-	-	5368.48
GBR-41	5396.35	37.61	-	-	5358.74
GBR-51	5389.68	42.48	-	-	5347.2
GBR-52	5387.74	40.39	-	-	5347.35
SHS-1	5383.54	39.91	-	-	5343.63
SHS-2	5381.66	39.56	-	-	5342.1
SHS-3	5383.33	dry	-	-	dry
SHS-4	5383.62	42.33	-	-	5341.29
SHS-5	5378.36	39.34	-	-	5339.02
SHS-6	5378.17	37.05	-	-	5341.12
SHS-8	5380.25	39.73	-	-	5340.52
SHS-9	5380.79	38.33	-	-	5342.46
SHS-10	5373.80	36.42	-	-	5337.38
SHS-12	5373.94	39.67	-	-	5334.27
SHS-13	5367.81	no access	-	-	no access
SHS-14	5367.07	34.33	-	-	5332.74
SHS-15	5366.21	33.11	-	-	5333.1
SHS-16	5362.58	30.92	-	-	5331.66
SHS-17	5364.35	32.89	-	-	5331.46
SHS-18	5373.64	39.66	-	-	5333.98
SHS-19	5378.89	40.32	-	-	5338.57
July 2007					
GRW-1	5394.30	41.63	-	-	5352.67
GRW-2	5391.28	42.46	-	-	5348.82
GRW-3	5388.77	44.54	-	-	5344.23
GRW-4	5390.02	54.76	-	-	5335.26
GRW-5	5390.56	48.98	-	-	5341.58
GRW-6	5390.81	50.27	-	-	5340.54
GRW-9	5395.70	49.15	-	-	5346.55
GRW-10	5395.02	43.37	-	-	5351.65
GRW-11	5397.85	34.53	-	-	5363.32
GRW-12	5397.24	41.97	-	-	5355.27
GRW-13	5396.90	46.91	-	-	5349.99
GBR-5	5395.07	29.91	-	-	5365.16
GBR-7	5395.85	31.33	-	-	5364.52

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
GBR-8	5390.50	42.7	-	-	5347.8
GBR-9	5389.92	47.29	-	-	5342.63
GBR-10	5390.57	42.51	-	-	5348.06
GBR-11	5389.43	42.6	-	-	5346.83
GBR-13	5393.04	42.89	-	-	5350.15
GBR-15	5397.99	37.42	-	-	5360.57
GBR-18	5421.68	37.02	-	-	5384.66
GBR-19	5393.83	41.44	-	-	5352.39
GBR-20	5393.47	38.28	-	-	5355.19
GBR-21S	5400.65	28.86	-	-	5371.79
GBR-21D	5400.19	38.44	-	-	5361.75
GBR-22	5395.91	38.76	38.46	0.3	5357.39
GBR-23	5403.72	30.57	-	-	5373.15
GBR-24S	5396.08	32.25	-	-	5363.83
GBR-24D	5396.77	33.25	-	-	5363.52
GBR-25	5396.72	38.66	37.72	0.94	5358.812
GBR-26	5395.59	34.57	-	-	5361.02
GBR-30	5396.58	35.63	-	-	5360.95
GBR-31	5394.86	36.12	-	-	5358.74
GBR-33†	5396.28	37.58	-	-	5358.7
GBR-34	5394.00	37.59	-	-	5356.41
GBR-35	5393.66	37.7	-	-	5355.96
GBR-39	5397.55	36.94	-	-	5360.61
GBR-40	5400.76	32.83	-	-	5367.93
GBR-41	5396.35	28.64	-	-	5367.71
GBR-51	5389.68	42.49	-	-	5347.19
GBR-52	5387.74	40.34	-	-	5347.4
SHS-1	5383.54	40.04	-	-	5343.5
SHS-2	5381.66	40.17	-	-	5341.49
SHS-3	5383.33	dry	-	-	dry
SHS-4	5383.62	42.43	-	-	5341.19
SHS-5	5378.36	39.28	-	-	5339.08
SHS-6	5378.17	39.28	-	-	5338.89
SHS-8	5380.25	39.97	-	-	5340.28
SHS-9	5380.79	38.65	-	-	5342.14
SHS-10	5373.80	37.11	-	-	5336.69
SHS-12	5373.94	40.16	-	-	5333.78

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
SHS-13	5367.81	no access	-	-	no access
SHS-14	5367.07	35.02	-	-	5332.05
SHS-15	5366.21	33.87	-	-	5332.34
SHS-16	5362.58	31.55	-	-	5331.03
SHS-17	5364.35	33.42	-	-	5330.93
SHS-18	5373.64	40.21	-	-	5333.43
SHS-19	5378.89	39.98	-	-	5338.91
October 2007					
GRW-1	5394.30	61	-	-	5333.3
GRW-2	5391.28	49.92	-	-	5341.36
GRW-3	5388.77	45.24	-	-	5343.53
GRW-4	5390.02	43.53	-	-	5346.49
GRW-5	5390.56	64.3	-	-	5326.26
GRW-6	5390.81	50.67	-	-	5340.14
GRW-9	5395.70	45.11	-	-	5350.59
GRW-10	5395.02	39.38	-	-	5355.64
GRW-11	5397.85	34.12	-	-	5363.73
GRW-12	5397.24	43.68	-	-	5353.56
GRW-13	5396.90	51.27	-	-	5345.63
GBR-5	5395.07	30.13	-	-	5364.94
GBR-7	5395.85	32.48	-	-	5363.37
GBR-8	5390.50	43.41	-	-	5347.09
GBR-9	5389.92	43.7	-	-	5346.22
GBR-10	5390.57	42.57	-	-	5348
GBR-11	5389.43	43.03	-	-	5346.4
GBR-13	5393.04	43.29	-	-	5349.75
GBR-15	5397.99	36.97	-	-	5361.02
GBR-18	5421.68	27.28	-	-	5394.4
GBR-19	5393.13	40.23	-	-	5353.6
GBR-20	5393.47	38.73	-	-	5354.74
GBR-21S	5400.65	26.68	-	-	5373.97
GBR-21D	5400.19	37.93	-	-	5362.26
GBR-22	5395.91	39.95	-	-	5355.96
GBR-23	5403.72	30.01	-	-	5373.71
GBR-24S	5396.08	31.53	-	-	5364.55
GBR-24D	5396.77	32.8	-	-	5363.97
GBR-25	5396.72	36.93	-	-	5359.79

Well #	Wellhead Elevation (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Adjusted WSEL* (ft)
GBR-26	5395.59	35.28	-	-	5360.31
GBR-30	5396.58	36.31	-	-	5360.27
GBR-31	5393.69	35.76	-	-	5359.1
GBR-33†	5396.28	37.22	-	-	5359.06
GBR-34	5394.00	37.23	-	-	5356.77
GBR-35	5393.66	37.44	-	-	5356.22
GBR-39	5397.55	36.47	-	-	5361.08
GBR-40	5400.76	33.73	-	-	5367.03
GBR-41	5396.35	29.63	-	-	5366.72
GBR-51	5389.68	42.46	-	-	5347.22
GBR-52	5387.74	40.3	-	-	5347.44
SHS-1	5383.54	40.27	-	-	5343.27
SHS-2	5381.66	40.63	-	-	5341.03
SHS-3	5383.33	37.07	-	-	5346.26
SHS-4	5383.62	42.57	-	-	5341.05
SHS-5	5378.36	39.77	-	-	5338.59
SHS-6	5378.17	39.55	-	-	5338.62
SHS-8	5380.25	40.18	-	-	5340.07
SHS-9	5380.79	39.03	-	-	5341.76
SHS-10	5373.80	37.41	-	-	5336.39
SHS-12	5373.94	40.67	-	-	5333.27
SHS-13	5367.81	no access	-	-	no access
SHS-14	5367.07	35.52	-	-	5331.55
SHS-15	5366.21	34.45	-	-	5331.76
SHS-16	5362.58	32.02	-	-	5330.56
SHS-17	5364.35	33.9	-	-	5330.45
SHS-18	5373.64	40.7	-	-	5332.94
SHS-19	5378.89	40.62	-	-	5338.27

*WSEL = Water Surface Elevation Adjusted for Product Depth using 0.8 g/ml.
† Wellhead elevation has not been corrected after road construction.

Table 5. Giant Industries, Inc. Bloomfield Refinery Quarterly Product Levels

Well #	Product Thickness (ft) January 2007	Product Thickness (ft) April 2007	Product Thickness (ft) July 2007	Product Thickness (ft) October 2007
GBR-22	0	0	**0.3**	0
GBR-23	**0.02**	**0.08**	0	0
GBR-25	**0.85**	**0.51**	**0.94**	0

5.0 Total Volume History

Section 5 presents the volume of groundwater managed for the year. Total volume pumped from each well, current tank volumes and the re-injection volume is reported.

Table 6. Giant Industries, Inc. Bloomfield Refinery
Tank Volume Change 2007

Tank Number	Beginning Volume (Gallons)	Ending Volume (Gallons)	Change (Gallons)
102	11,830	13,312	1,482
		Total Net Volume Change (Gallons):	**1,482**

Table 7. Giant Industries, Inc. Bloomfield Refinery
Recovery Well Volume Tabulation 2007

Well #	Jan-Jul	Jul-Dec	Total
GRW-1	18,273	12,415	30,688
GRW-2	18,584	33,633	52,217
GRW-3	47,011	96,782	143,793
GRW-4	47,982	28,255	76,237
GRW-5	165,163	141,887	307,050
GRW-6	104,794	221,626	326,420
GRW-9	40,819	30,876	71,695
GRW-10	928,548	187,509	1,116,057
GRW-11	22	25	47
GRW-12	8,325	15,394	18,304
GRW-13	91,321	18,217	109,538
SHS-9	0	19	19
SHS-14	24	121	145
SHS-18	0	0	0
SHS-19	143,134	200,336	343,470
		Total Volume Pumped in Gallons:	**2,601,095**

Table 8. Giant Industries, Inc. Bloomfield Refinery
Total Volume Summary 2007

Total Volume of Water Recovered:	2,601,095 gallons
Net Change in Storage Volume:	1,482 gallons
Total Water Treated and Pumped to the Infiltration Gallery:	**2,599,613 gallons**

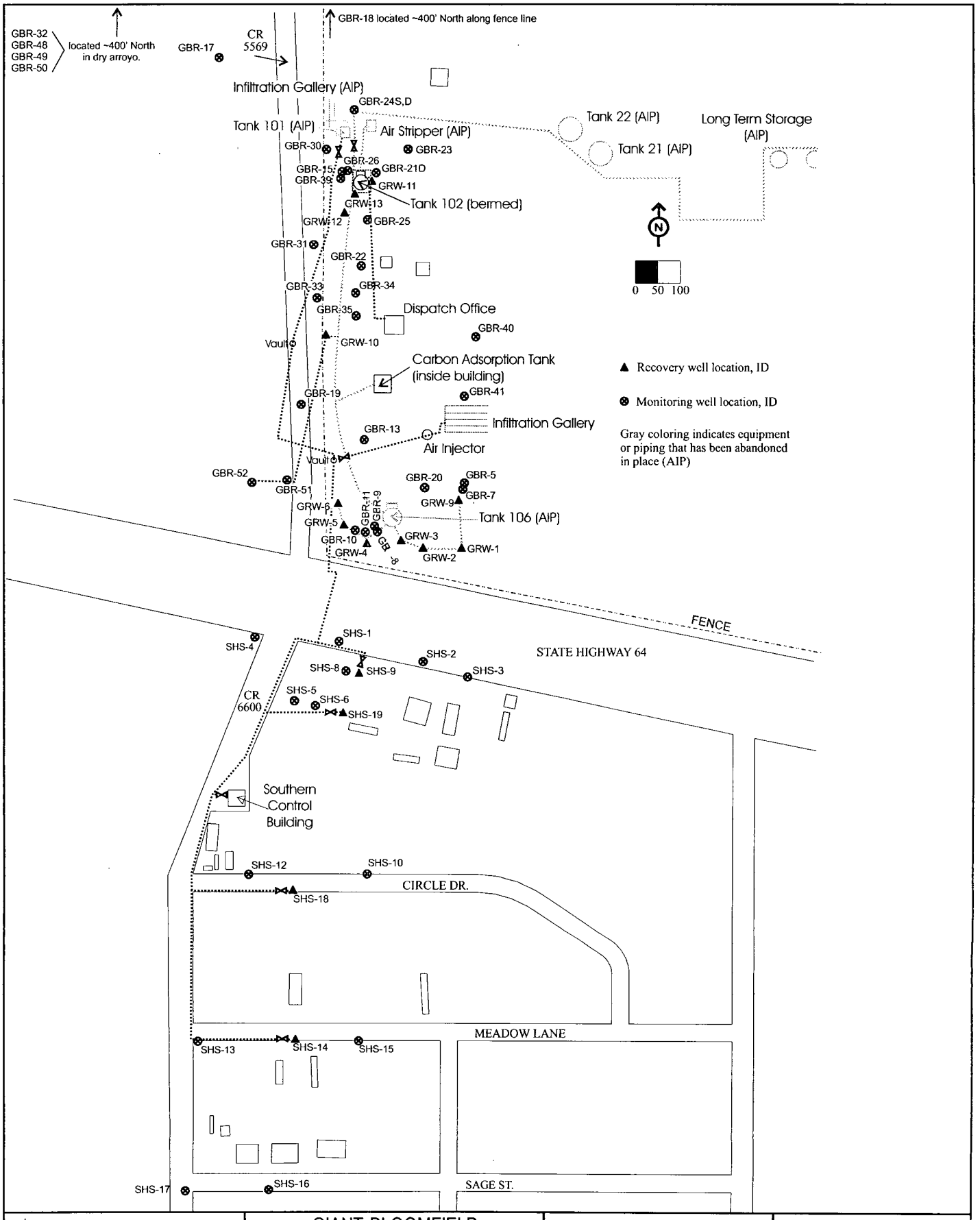
5.0 Recommendations

Regular analyses of influent and effluent water indicate the treated water at the former Bloomfield Refinery is beneath NMWQCC standards. However, quarterly monitoring of groundwater levels indicate free-phase product is present at the site. Modifications to the treatment system are warranted, but more data are required to determine appropriate actions. Recommendations include:

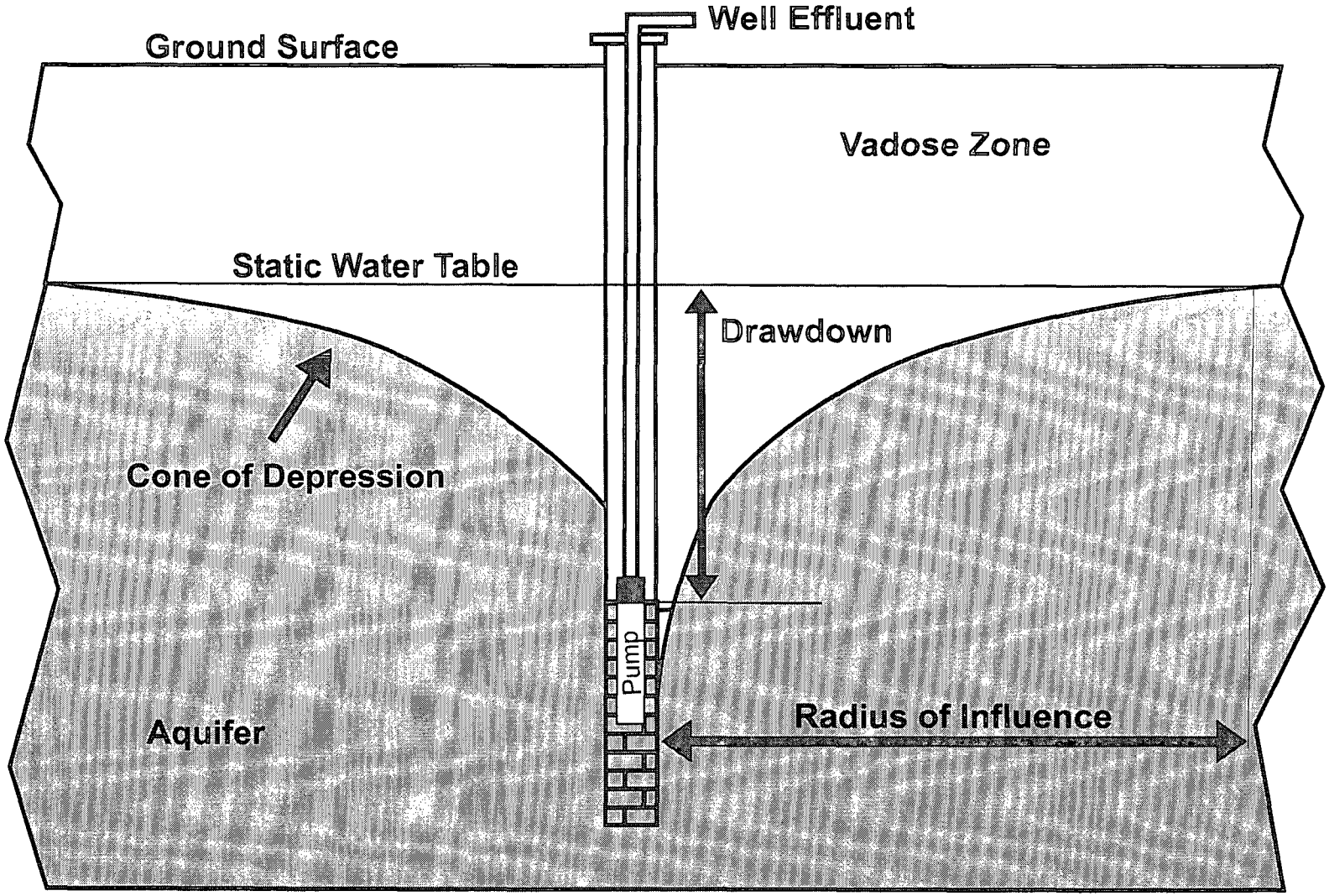
- Institute the proposed changes to the groundwater monitoring well sampling schedule listed in Section 1.0 and proceed with closure for the downgradient monitoring wells.
- During 2008, Western should sample all monitoring wells located north of Hwy 64 to determine existing groundwater quality.
- Once sampling results are reported, a comprehensive analysis of groundwater quality and flow characteristics should be conducted. Results of the detailed study can be used to make recommendations for modifications to the treatment system. Such a study will allow Western to pursue a more efficient approach to groundwater remediation and facilitate closure of the entire project.

6.0 FIGURES

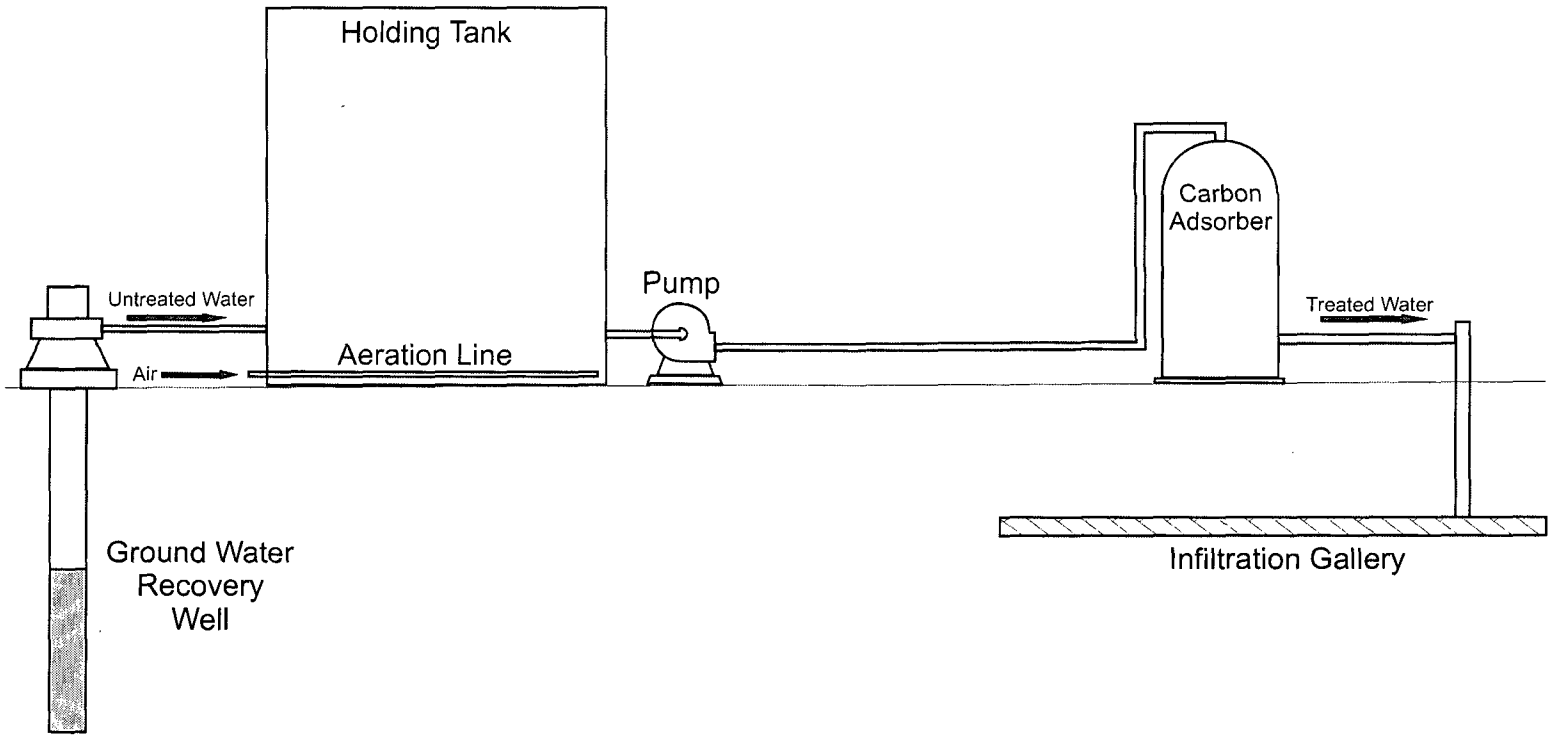
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GIANT BLOOMFIELD FORMER REFINERY SAN JUAN COUNTY, NEW MEXICO TOPOGRAPHIC MAP (USGS 1:100,000 Scale Horn Canyon, New Mexico Topographic Map)	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 02/13/07	FIGURE 1



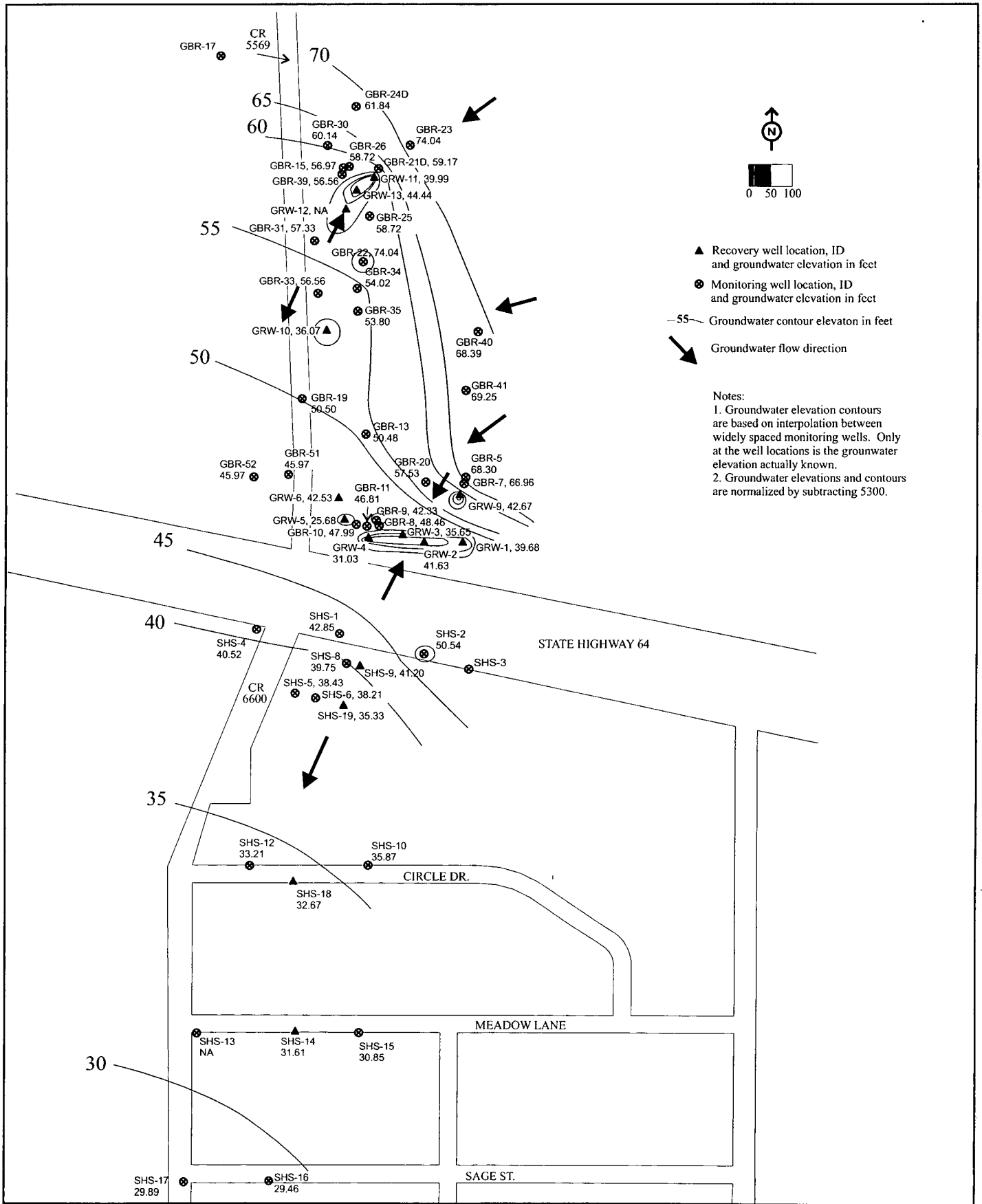
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GIANT BLOOMFIELD FORMER REFINERY SITE MAP	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 02/13/07	FIGURE 2



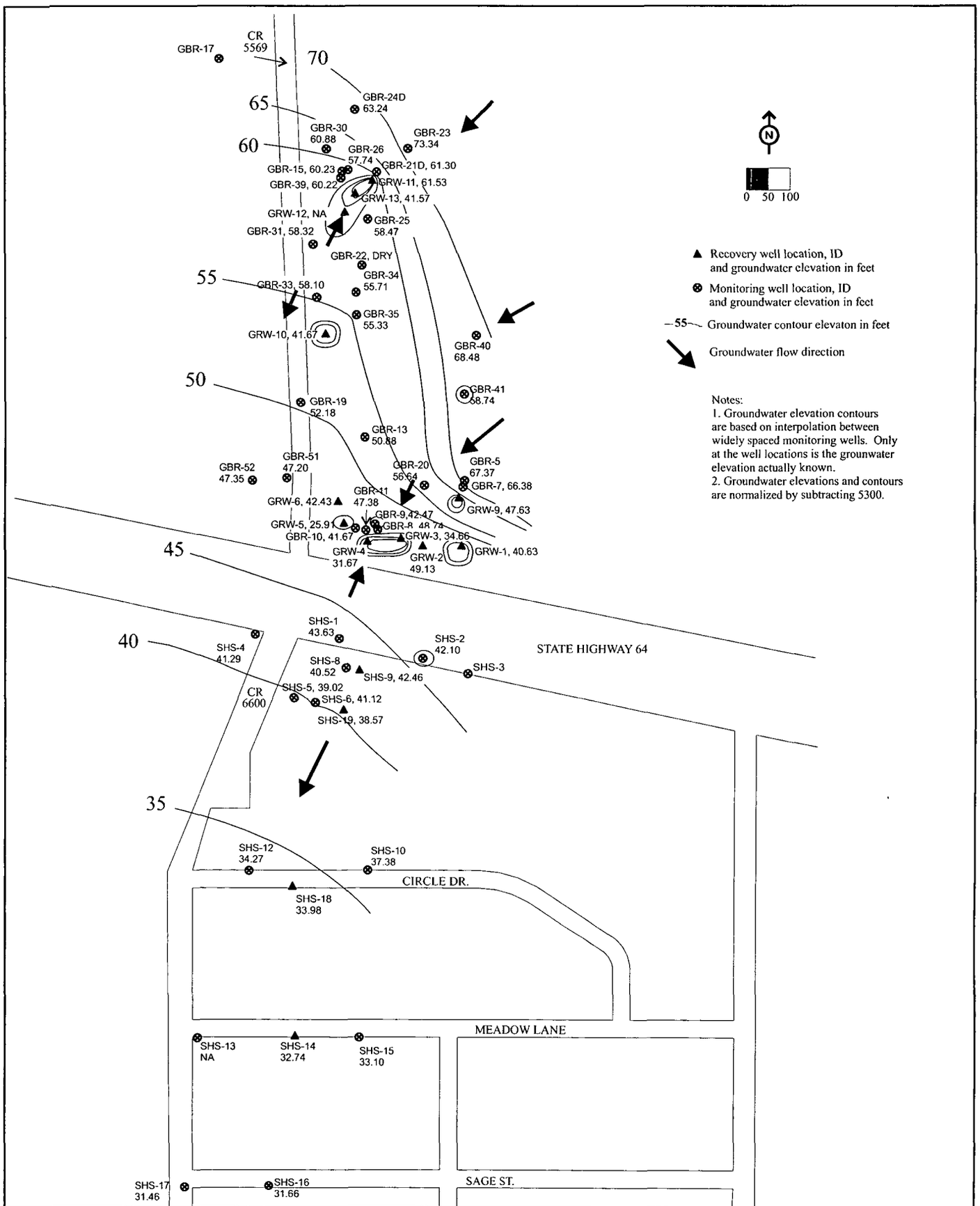
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	EFFECT OF PUMPING ON AN AQUIFER	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 02/13/07	FIGURE 3



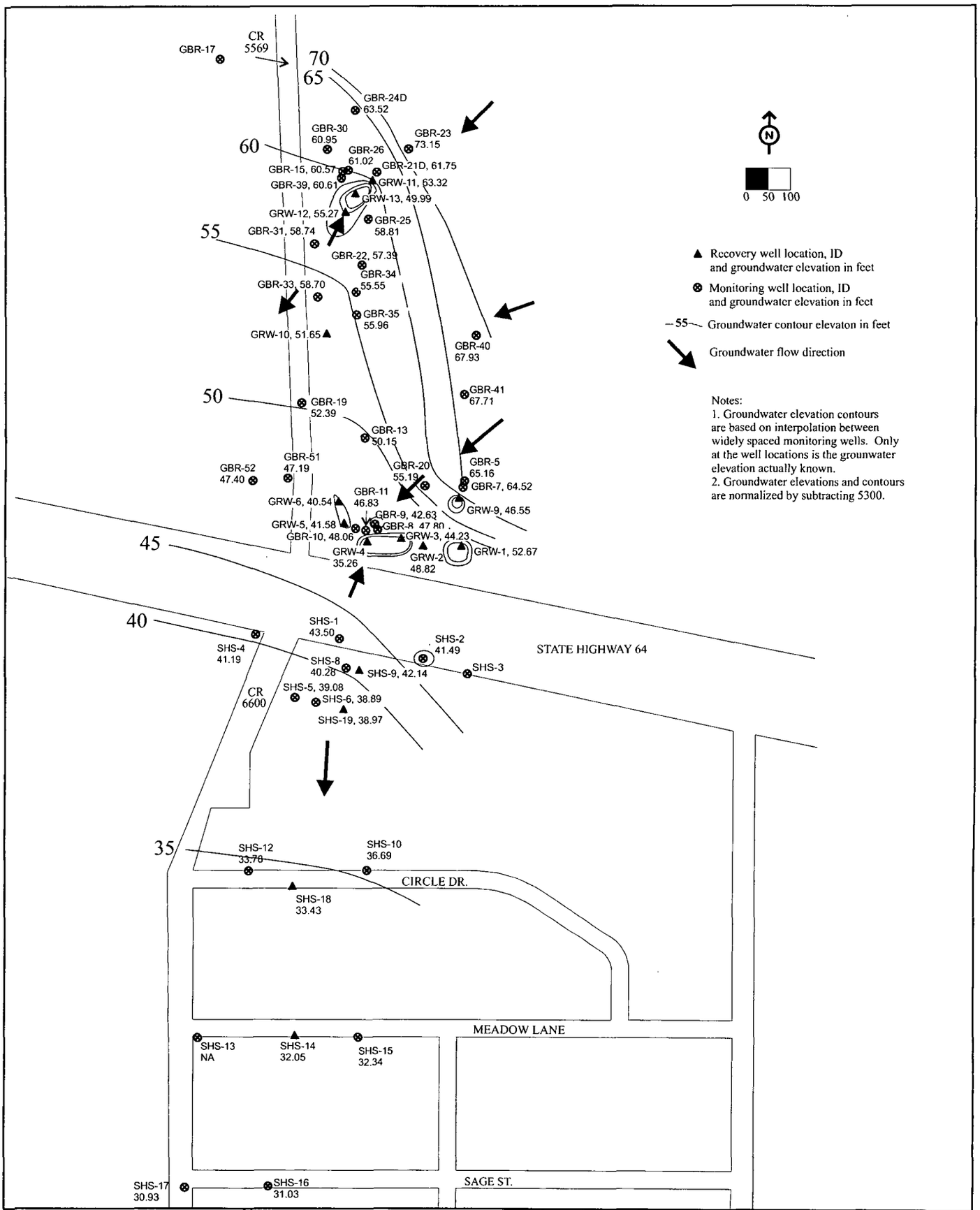
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	SIMPLIFIED REPRESENTATION OF THE GROUNDWATER RECOVERY, TREATMENT AND DISPOSAL SYSTEM	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 02/13/07	FIGURE 4



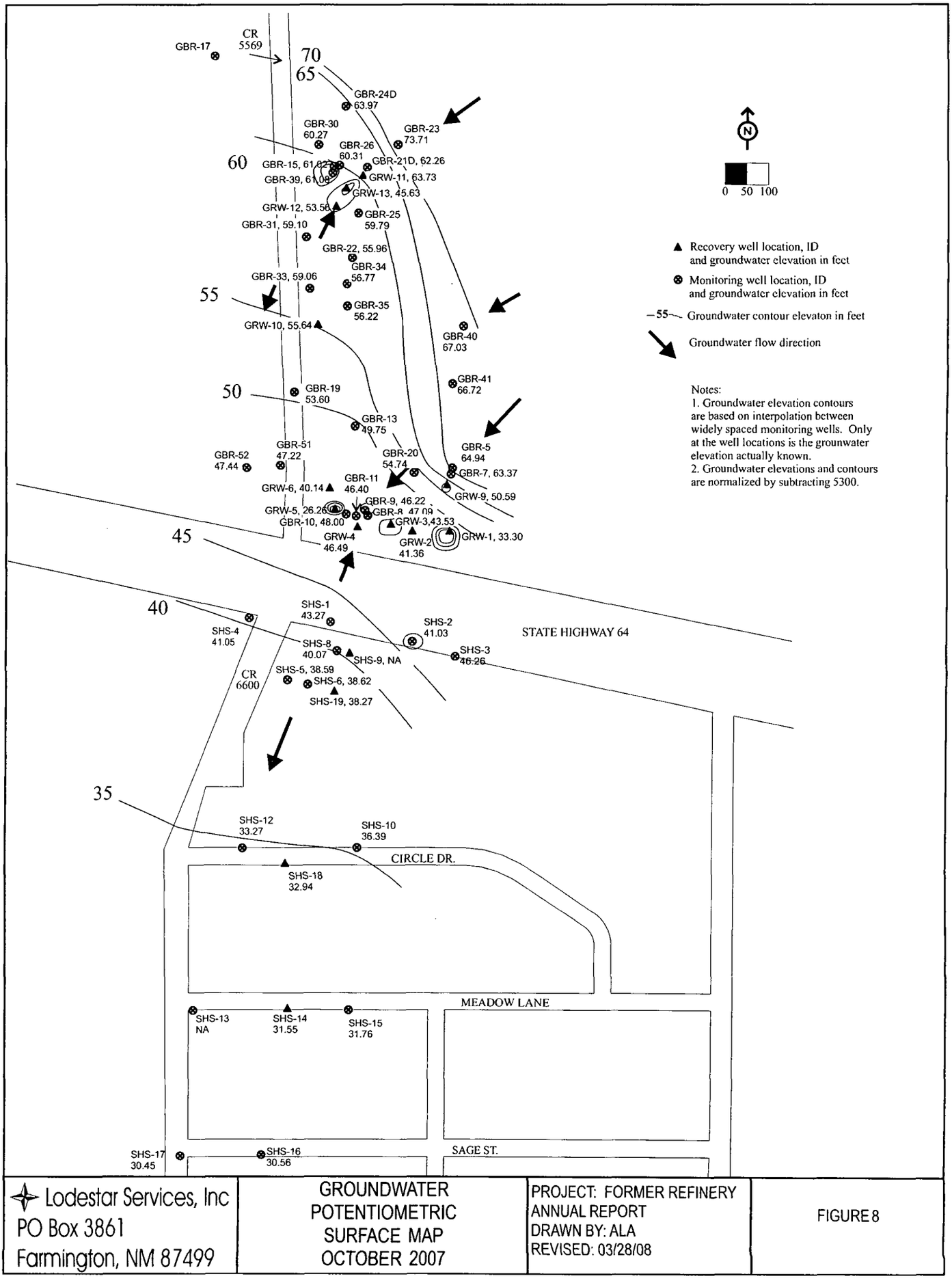
Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GROUNDWATER POTENTIOMETRIC SURFACE MAP JANUARY 2007	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 03/28/08	FIGURE 5



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GROUNDWATER POTENTIOMETRIC SURFACE MAP APRIL 2007	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 03/28/08	FIGURE 6



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GROUNDWATER POTENTIOMETRIC SURFACE MAP JULY 2007	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 03/28/08	FIGURE 7



Lodestar Services, Inc PO Box 3861 Farmington, NM 87499	GROUNDWATER POTENTIOMETRIC SURFACE MAP OCTOBER 2007	PROJECT: FORMER REFINERY ANNUAL REPORT DRAWN BY: ALA REVISED: 03/28/08	FIGURE 8

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **612213**
January 11, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name GIANT FORMER REFINERY
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 12/21/2006 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

Due to instrument maintenance, EPA 624 was substituted for EPA 601/602 at no additional cost.

EPA Methods 601/602, 300.0 and 150.1 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All other analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 612213
PROJECT #	: (NONE)	DATE RECEIVED	: 12/21/2006
PROJECT NAME	: GIANT FORMER REFINERY	REPORT DATE	: 01/11/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
612213 - 01	GBR - 50	AQUEOUS	12/20/2006
612213 - 02	GBR - 48	AQUEOUS	12/20/2006
612213 - 03	GBR - 32	AQUEOUS	12/20/2006
612213 - 04	GBR - 49	AQUEOUS	12/20/2006
612213 - 05	GBR - 17	AQUEOUS	12/20/2006
612213 - 06	TRIP BLANK	AQUEOUS	12/07/2006

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PINNACLE LABS
Environmental Testing

ION CHROMATOGRAPHY RESULTS

TEST : ANIONS BY EPA 300.0
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT FORMER REFINERY

PINNACLE I.D. : 612213
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GBR - 50	AQUEOUS	12/20/2006	NA	12/21/2006	10
02	GBR - 48	AQUEOUS	12/20/2006	NA	12/21/2006	10
03	GBR - 32	AQUEOUS	12/20/2006	NA	12/21/2006	10

PARAMETER	DET. LIMIT	UNITS	GBR - 50	GBR - 48	GBR - 32
CHLORIDE	**1.0**	**MG/L**	**61**	**140**	**480**
SULFATE	**1.0**	**MG/L**	**1700 - D100a**	**820**	**1800 - D100b**

CHEMIST NOTES:
D100a = Reported from a 100X dilution run on 12-21-06.
D100b = Reported from a 100X dilution run on 12-21-06.

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PINNACLE LABS
Environmental Testing

ION CHROMATOGRAPHY RESULTS

TEST : ANIONS BY EPA 300.0
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT FORMER REFINERY

PINNACLE I.D. : 612213
ANALYST : BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	GBR - 49	AQUEOUS	12/20/2006	NA	12/21/2006	10
05	GBR - 17	AQUEOUS	12/20/2006	NA	12/21/2006	10

PARAMETER	DET. LIMIT	UNITS	GBR - 49	GBR - 17
CHLORIDE	**1.0**	**MG/L**	**280**	**48**
SULFATE	**1.0**	**MG/L**	**2200 - D100c**	**1400 - D100d**

CHEMIST NOTES:
D100c = Reported from a 100X dilution run on 12-21-06.
D100d = Reported from a 100X dilution run on 12-21-06.

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PINNACLE LABS
Environmental Testing

PINNACLE I.D. : 612213
TEST : ANIONS BY EPA 300.0
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT FORMER REFINERY

ION CHROMATOGRAPHY RESULTS
REAGENT BLANK

BLANK I.D. : 122106 SAMPLE MATRIX : AQUEOUS
DATE EXTRACTED : N/A ANALYST : BP
DATE ANALYZED : 12/21/2006 UNITS : MG/L

PARAMETER	UNITS	
CHLORIDE	MG/L	<1.0
SULFATE	MG/L	<1.0

ION CHROMATOGRAPHY QUALITY CONTROL
LFB/LFBD

BATCH I.D. : 122106 SAMPLE MATRIX : AQUEOUS
DATE EXTRACTED : N/A ANALYST : BP
DATE ANALYZED : 12/21/2007 UNITS : MG/L

PARAMETER	LFB RESULT	CONC SPIKE	SPIKED BLANK	% REC	DUP SPIKE	DUP % REC	RPD	RPD LIMITS	REC LIMITS
CHLORIDE	<1.0	10.0	9.42	94	9.48	95	1	20	(90 - 110)
SULFATE	<1.0	10.0	9.84	98	9.89	99	1	20	(90 - 110)

ION CHROMATOGRAPHY QUALITY CONTROL
LFM

SAMPLE I.D. : 612211-01 SAMPLE MATRIX : AQUEOUS
DATE EXTRACTED : N/A ANALYST : BP
DATE ANALYZED : 12/21/2007 UNITS : MG/L

PARAMETER		SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	REC LIMITS
CHLORIDE	IC1	**9.9**	10.0	18.0	81	(80 - 120)
SULFATE	IC1	**27**	10.0	36.0	90	(80 - 120)

CHEMIST NOTES:
IC1 = Sample results were normalized to 90% of reported values due to dilution during spiking.

PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 612213
PROJECT #	: (NONE)	DATE RECEIVED	: 12/21/2006
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	GBR - 50	AQUEOUS	12/20/2006	12/22/2006
02	GBR - 48	AQUEOUS	12/20/2006	12/22/2006
03	GBR - 32	AQUEOUS	12/20/2006	12/22/2006

PARAMETER	GBR - 50	GBR - 48	GBR - 32
PH (150.1)	6.7	7.1	7.2
TEMPERATURE (°C)	20.4	20.3	20.0

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 612213
PROJECT #	: (NONE)	DATE RECEIVED	: 12/21/2006
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: BP

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	GBR - 49	AQUEOUS	12/20/2006	12/22/2006
05	GBR - 17	AQUEOUS	12/20/2006	12/22/2006

PARAMETER	GBR - 49	GBR - 17
PH (150.1)	6.4	7.0
TEMPERATURE (°C)	20.0	19.8

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 612213
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	DATE ANALYZED	: 12/22/2006

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	612213-01	6.68	6.76	1
TEMPERATURE (°C)		20.4	20.0	

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT FORMER REFINERY

PINNACLE I.D. : 612213
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GBR - 50	AQUEOUS	12/20/2006	NA	01/03/2007	1
02	GBR - 48	AQUEOUS	12/20/2006	NA	01/03/2007	1
03	GBR - 32	AQUEOUS	12/20/2006	NA	01/03/2007	1

PARAMETER	DET. LIMIT	UNITS	GBR - 50	GBR - 48	GBR - 32	P/E
METHYL -t-BUTYL ETHER	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TOLUENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
ETHYLBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TOTAL XYLENES	3.0	UG/L	< 3.0	< 3.0	< 3.0	MS
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
VINYL CHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMOMETHANE	2.0	UG/L	< 2.0	< 2.0	< 2.0	MS
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRICHLOROFLUOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
METHYLENE CHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1-DICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CHLOROFORM	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROETHANE (EDC)	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CARBON TETRACHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROPROPANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMODICHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CIS-1,3-DICHLOROPROPENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRANS-1,3-DICHLOROPROPENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,2-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
DIBROMOCHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DIBROMOETHANE (EDB)	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TETRACHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMOFORM	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,2,2-TETRACHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,3-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,4-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
SURROGATE:						
1,2-DICHLOROETHANE-D4 (%)			95	95	94	
SURROGATE LIMITS	(76 - 114)					
TOLUENE-D8 (%)			107	103	102	
SURROGATE LIMITS	(88 - 110)					
BROMOFLUOROBENZENE (%)			113	105	107	
SURROGATE LIMITS	(86 - 115)					

CHEMIST NOTES:
N/A

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : GIANT FORMER REFINERY

PINNACLE I.D. : 612213
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	GBR - 49	AQUEOUS	12/20/2006	NA	01/03/2007	1
05	GBR - 17	AQUEOUS	12/20/2006	NA	01/03/2007	1
06	TRIP BLANK	AQUEOUS	12/07/2006	NA	01/03/2007	1

PARAMETER	DET. LIMIT	UNITS	GBR - 49	GBR - 17	TRIP BLANK	P/E
METHYL -t-BUTYL ETHER	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BENZENE	**1.0**	**UG/L**	**5.4**	< 1.0	< 1.0	MS
TOLUENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
ETHYLBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TOTAL XYLENES	3.0	UG/L	< 3.0	< 3.0	< 3.0	MS
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
VINYL CHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMOMETHANE	2.0	UG/L	< 2.0	< 2.0	< 2.0	MS
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRICHLOROFLUOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
METHYLENE CHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1-DICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CHLOROFORM	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROETHANE (EDC)	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CARBON TETRACHLORIDE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROPROPANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMODICHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CIS-1,3-DICHLOROPROPENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TRANS-1,3-DICHLOROPROPENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,2-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
DIBROMOCHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DIBROMOETHANE (EDB)	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
TETRACHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
CHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
BROMOFORM	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,1,2,2-TETRACHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,3-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,4-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS
1,2-DICHLOROBENZENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	MS

SURROGATE:				
1,2-DICHLOROETHANE-D4 (%)		91	93	96
SURROGATE LIMITS	(76 - 114)			
TOLUENE-D8 (%)		105	106	106
SURROGATE LIMITS	(88 - 110)			
BROMOFLUOROBENZENE (%)		108	111	107
SURROGATE LIMITS	(86 - 115)			

CHEMIST NOTES:
N/A

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 601/602 LIST	PINNACLE I.D.	: 612213
BLANK I.D.	: 010307E	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 01/03/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

PARAMETER	UNITS	
METHYL -t-BUTYL ETHER	UG/L	1.0
BENZENE	UG/L	1.0
TOLUENE	UG/L	1.0
ETHYLBENZENE	UG/L	1.0
TOTAL XYLENES	UG/L	3.0
CHLOROMETHANE	UG/L	1.0
VINYL CHLORIDE	UG/L	1.0
BROMOMETHANE	UG/L	2.0
CHLOROETHANE	UG/L	1.0
TRICHLOROFLUOROMETHANE	UG/L	1.0
1,1-DICHLOROETHENE	UG/L	1.0
METHYLENE CHLORIDE	UG/L	1.0
TRANS-1,2-DICHLOROETHENE	UG/L	1.0
1,1-DICHLOROETHANE	UG/L	1.0
CHLOROFORM	UG/L	1.0
1,2-DICHLOROETHANE (EDC)	UG/L	1.0
1,1,1-TRICHLOROETHANE	UG/L	1.0
CARBON TETRACHLORIDE	UG/L	1.0
1,2-DICHLOROPROPANE	UG/L	1.0
TRICHLOROETHENE	UG/L	1.0
BROMODICHLOROMETHANE	UG/L	1.0
CIS-1,3-DICHLOROPROPENE	UG/L	1.0
TRANS-1,3-DICHLOROPROPENE	UG/L	1.0
1,1,2-TRICHLOROETHANE	UG/L	1.0
DIBROMOCHLOROMETHANE	UG/L	1.0
1,2-DIBROMOETHANE (EDB)	UG/L	1.0
TETRACHLOROETHENE	UG/L	1.0
CHLOROBENZENE	UG/L	1.0
BROMOFORM	UG/L	1.0
1,1,2,2-TETRACHLOROETHANE	UG/L	1.0
1,3-DICHLOROBENZENE	UG/L	1.0
1,4-DICHLOROBENZENE	UG/L	1.0
1,2-DICHLOROBENZENE	UG/L	1.0
SURROGATE:		
1,2-DICHLOROETHANE-D4 (%)		100
SURROGATE LIMITS		(76 - 114)
TOLUENE-D8 (%)		106
SURROGATE LIMITS		(88 - 110)
BROMOFLUOROBENZENE (%)		109
SURROGATE LIMITS		(86 - 115)

CHEMIST NOTES:
N/A

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 601/602 LIST	PINNACLE I.D.	: 612213
SAMPLE ID	: 612213-03	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 01/03/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
METHYL -t-BUTYL ETHER	1.0	20	19.5	98	19.8	99	2	(70 - 130)	20
BENZENE	1.0	20	18.9	95	19.3	97	2	(39 - 150)	20
TOLUENE	1.0	20	19.1	96	19.8	99	4	(46 - 148)	20
ETHYLBENZENE	1.0	20	19.5	98	20.4	102	5	(32 - 160)	20
TOTAL XYLENES	3.0	60	60.4	101	61.4	102	2	(80 - 120)	20
CHLOROMETHANE	1.0	20	20.0	100	19.5	98	3	(D - 193)	20
VINYL CHLORIDE	1.0	20	15.8	79	15.5	78	2	(28 - 163)	20
BROMOMETHANE	2.0	20	22.3	112	21.0	105	6	(D - 144)	20
CHLOROETHANE	1.0	20	19.8	99	18.8	94	5	(46 - 137)	20
TRICHLOROFLUOROMETHANE	1.0	20	23.4	117	23.3	117	0	(21 - 156)	20
1,1-DICHLOROETHENE	1.0	20	16.6	83	16.6	83	0	(28 - 167)	20
METHYLENE CHLORIDE	1.0	20	16.9	85	17.4	87	3	(25 - 162)	20
TRANS-1,2-DICHLOROETHENE	1.0	20	16.5	83	17.6	88	6	(38 - 155)	20
1,1-DICHLOROETHANE	1.0	20	18.6	93	18.7	94	1	(47 - 132)	20
CHLOROFORM	1.0	20	19.8	99	19.3	97	3	(49 - 133)	20
1,2-DICHLOROETHANE (EDC)	1.0	20	19.6	98	20.5	103	4	(51 - 147)	20
1,1,1-TRICHLOROETHANE	1.0	20	18.3	92	19.2	96	5	(41 - 138)	20
CARBON TETRACHLORIDE	1.0	20	19.1	96	19.1	96	0	(43 - 143)	20
1,2-DICHLOROPROPANE	1.0	20	18.7	94	19.4	97	4	(44 - 156)	20
TRICHLOROETHENE	1.0	20	19.8	99	20.1	101	2	(35 - 146)	20
BROMODICHLOROMETHANE	1.0	20	18.9	95	19.2	96	2	(42 - 172)	20
CIS-1,3-DICHLOROPROPENE	1.0	20	19.3	97	19.9	100	3	(22 - 178)	20
TRANS-1,3-DICHLOROPROPENE	1.0	20	17.9	90	18.9	95	5	(22 - 178)	20
1,1,2-TRICHLOROETHANE	1.0	20	19.9	100	21.0	105	5	(39 - 136)	20
DIBROMOCHLOROMETHANE	1.0	20	19.4	97	20.0	100	3	(24 - 191)	20
1,2-DIBROMOETHANE (EDB)	1.0	20	21.2	106	21.5	108	1	(80 - 120)	20
TETRACHLOROETHENE	1.0	20	23.2	116	23.9	120	3	(26 - 162)	20
CHLOROBENZENE	1.0	20	19.6	98	20.2	101	3	(38 - 150)	20
BROMOFORM	1.0	20	18.0	90	18.8	94	4	(13 - 159)	20
1,1,2,2-TETRACHLOROETHANE	1.0	20	19.7	99	21.1	106	7	(8 - 184)	20
1,3-DICHLOROBENZENE	1.0	20	19.2	96	19.0	95	1	(7 - 187)	20
1,4-DICHLOROBENZENE	1.0	20	20.3	102	20.2	101	0	(42 - 143)	20
1,2-DICHLOROBENZENE	1.0	20	20.5	103	21.0	105	2	(D - 208)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Cation-Anion Balance Worksheet

Accession Number: 612213-01

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	225		
Chloride	61	0.02821	1.72081
Fluoride		0.05264	0.00000
Nitrate as N	0	0.01613	0.00000
Sulfate	1700	0.02082	35.39400
Carbonate		0.03333	0.00000
Bi-Carbonate	224	0.01639	3.67136
	Total Anions =		**40.78617**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	378	0.04990	18.86220
Potassium	9.04	0.02558	0.23124
Magnesium	28.9	0.08229	2.37818
Sodium	326	0.04350	14.18100
Copper		0.03147	0.00000
Iron	5.73	0.05372	0.30782
Manganese	0.373	0.03640	0.01358
Zinc		0.03059	0.00000
	Total Cations =		**35.97402**

Anion/Cation Balance (% difference) =	6.3%		
Total Anions+Cations =	2644	mg/l	(calculated)
Total Dissolved Solids =	2600	mg/l	(measured)
TDS/ion sum ratio =	0.98		
Electrical Cond =	3510	umh/cm	(measured)
TDS/EC ratio =	0.741		

Cation-Anion Balance Worksheet

Accession Number: 612213-02

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	176		
Chloride	140	0.02821	3.94940
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	820	0.02082	17.07240
Carbonate		0.03333	0.00000
Bi-Carbonate	175	0.01639	2.86825
	Total Anions =		**23.89005**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	174	0.04990	8.68260
Potassium	7.27	0.02558	0.18597
Magnesium	18.1	0.08229	1.48945
Sodium	293	0.04350	12.74550
Copper		0.03147	0.00000
Iron	7.77	0.05372	0.41740
Manganese	0.457	0.03640	0.01663
Zinc		0.03059	0.00000
	Total Cations =		**23.53755**

Anion/Cation Balance (% difference) =	0.7%	
Total Anions+Cations =	1566 mg/l	(calculated)
Total Dissolved Solids =	1850 mg/l	(measured)
TDS/ion sum ratio =	1.18	
Electrical Cond =	2700 umh/cm	(measured)
TDS/EC ratio =	0.685	

Cation-Anion Balance Worksheet

Accession Number: 612213-03

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	228		
Chloride	480	0.02821	13.54080
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1800	0.02082	37.47600
Carbonate		0.03333	0.00000
Bi-Carbonate	227	0.01639	3.72053
	Total Anions =		**54.73733**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	363	0.04990	18.11370
Potassium	10.1	0.02558	0.25836
Magnesium	39.5	0.08229	3.25046
Sodium	564	0.04350	24.53400
Copper		0.03147	0.00000
Iron	1.24	0.05372	0.06661
Manganese	1.07	0.03640	0.03895
Zinc		0.03059	0.00000
	Total Cations =		**46.26207**

Anion/Cation Balance (% difference) =	8.4%	
Total Anions+Cations =	3396 mg/l	(calculated)
Total Dissolved Solids =	3880 mg/l	(measured)
TDS/ion sum ratio =	1.14	
Electrical Cond =	5480 umh/cm	(measured)
TDS/EC ratio =	0.708	

Cation-Anion Balance Worksheet

Accession Number: 612213-04

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	112		
Chloride	280	0.02821	7.89880
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	2200	0.02082	45.80400
Carbonate		0.03333	0.00000
Bi-Carbonate	112	0.01639	1.83568
	Total Anions =		**55.53848**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	406	0.04990	20.25940
Potassium	13.5	0.02558	0.34533
Magnesium	38.8	0.08229	3.19285
Sodium	495	0.04350	21.53250
Copper		0.03147	0.00000
Iron	120	0.05372	6.44640
Manganese	5.91	0.03640	0.21512
Zinc		0.03059	0.00000
	Total Cations =		**51.99161**

Anion/Cation Balance (% difference) =	3.3%		
Total Anions+Cations =	3626	mg/l	(calculated)
Total Dissolved Solids =	3460	mg/l	(measured)
TDS/Ion sum ratio =	0.95		
Electrical Cond =	4520	umh/cm	(measured)
TDS/EC ratio =	0.765		

Cation-Anion Balance Worksheet

Accession Number: 612215-05

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	164		
Chloride	48	0.02821	1.35408
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1400	0.02082	29.14800
Carbonate		0.03333	0.00000
Bi-Carbonate	163	0.01639	2.67157
	Total Anions =		**33.17365**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	273	0.04990	13.62270
Potassium	7.27	0.02558	0.18597
Magnesium	22.6	0.08229	1.85975
Sodium	222	0.04350	9.65700
Copper		0.03147	0.00000
Iron	4.3	0.05372	0.23100
Manganese	0.235	0.03640	0.00855
Zinc		0.03059	0.00000
	Total Cations =		**25.56497**

Anion/Cation Balance (% difference) =	13.0%		
Total Anions+Cations =	2076	mg/l	(calculated)
Total Dissolved Solids =	2000	mg/l	(measured)
TDS/ion sum ratio =	0.96		
Electrical Cond =	2500	umh/cm	(measured)
TDS/EC ratio =	0.800		

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Report Summary

Date Received: Dec 22, 2006

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
30965GW1	GBR-50/612213-01	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
30965GW2	GBR-48/612213-02	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
30965GW3	GBR-32/612213-03	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
30965GW4	GBR-49/612213-04	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
30965GW5	GBR-17/612213-05	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Analysis Report

Lab #: 30965GW1 Sampled: 12/20/06 10:00 AM Desc: GBR-50/612213-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	2600	mg/L	1.00	2.50	5.00	10076615	EPA160.1	10-33-3	12/27/06
Calcium	378	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-70-2	12/28/06
Iron	5.73	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-89-6	12/28/06
Magnesium	28.9	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-95-4	12/28/06
Manganese	0.373	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-96-5	12/28/06
Potassium	9.04	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-09-7	12/28/06
Sodium	326	mg/L	1.00	0.500	1.00	10076739	EPA6010	7440-23-5	12/28/06
Total Hardness (as CaCO3)	956	mg/L	1.00	0.100	0.200	10076739	SM2340B	40-11-9	12/28/06
Bicarbonate Alkalinity	224	mg/L	5.00	0.500	1.00	10076934	EPA310.1	E1640226	01/03/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10076934	EPA310.1	3812-32-6	01/03/07
Hydroxide CaCO3	0.500 U	mg/L	5.00	0.500	0.500	10076934	EPA310.1		01/03/07
Total Alkalinity CaCO3	225	mg/L	5.00	0.500	1.00	10076934	EPA310.1	T-005	01/03/07
Specific_Conductance	3510	umhos/cm	1.00	1.00	2.00	10076977	EPA120.1	10-34-4	12/29/06

Lab #: 30965GW2 Sampled: 12/20/06 10:00 AM Desc: GBR-48/612213-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	1850	mg/L	1.00	2.50	5.00	10076615	EPA160.1	10-33-3	12/27/06
Calcium	174	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-70-2	12/28/06
Iron	7.77	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-89-6	12/28/06
Magnesium	18.1	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-95-4	12/28/06
Manganese	0.457	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-96-5	12/28/06
Potassium	7.27	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-09-7	12/28/06
Sodium	293	mg/L	1.00	0.500	1.00	10076739	EPA6010	7440-23-5	12/28/06
Total Hardness (as CaCO3)	458	mg/L	1.00	0.100	0.200	10076739	SM2340B	40-11-9	12/28/06
Bicarbonate Alkalinity	175	mg/L	5.00	0.500	1.00	10076934	EPA310.1	E1640226	01/03/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10076934	EPA310.1	3812-32-6	01/03/07
Hydroxide CaCO3	0.500 U	mg/L	5.00	0.500	0.500	10076934	EPA310.1		01/03/07

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Albuquerque,NM 87107

PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Lab #: 30965GW2 Sampled: 12/20/06 10:00 AM Desc: GBR-48/612213-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Alkalinity CaCO3	176	mg/L	5.00	0.500	1.00	10076934	EPA310.1	T-005	01/03/07
Specific_Conductance	2700	umhos/cm	1.00	1.00	2.00	10076977	EPA120.1	10-34-4	12/29/06

Lab #: 30965GW3 Sampled: 12/20/06 10:00 AM Desc: GBR-32/612213-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	3880	mg/L	1.00	2.50	5.00	10076615	EPA160.1	10-33-3	12/27/06
Calcium	363	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-70-2	12/28/06
Iron	1.24	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-89-6	12/28/06
Magnesium	39.5	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-95-4	12/28/06
Manganese	1.07	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-96-5	12/28/06
Potassium	10.1	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-09-7	12/28/06
Sodium	564	mg/L	1.00	0.500	1.00	10076739	EPA6010	7440-23-5	12/28/06
Total Hardness (as CaCO3)	962	mg/L	1.00	0.100	0.200	10076739	SM2340B	40-11-9	12/28/06
Bicarbonate Alkalinity	227	mg/L	5.00	0.500	1.00	10076934	EPA310.1	E1640226	01/03/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10076934	EPA310.1	3812-32-6	01/03/07
Hydroxide CaCO3	0.500 U	mg/L	5.00	0.500	0.500	10076934	EPA310.1		01/03/07
Total Alkalinity CaCO3	228	mg/L	5.00	0.500	1.00	10076934	EPA310.1	T-005	01/03/07
Specific_Conductance	5480	umhos/cm	1.00	1.00	2.00	10076977	EPA120.1	10-34-4	12/29/06

Lab #: 30965GW4 Sampled: 12/20/06 10:00 AM Desc: GBR-49/612213-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	3460	mg/L	1.00	2.50	5.00	10076615	EPA160.1	10-33-3	12/27/06
Calcium	406	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-70-2	12/28/06
Iron	120	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-89-6	12/28/06
Magnesium	38.8	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-95-4	12/28/06
Manganese	5.91	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-96-5	12/28/06
Potassium	13.5	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-09-7	12/28/06
Sodium	495	mg/L	1.00	0.500	1.00	10076739	EPA6010	7440-23-5	12/28/06
Total Hardness (as CaCO3)	1060	mg/L	1.00	0.100	0.200	10076739	SM2340B	40-11-9	12/28/06

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PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Lab #: 30965GW4 Sampled: 12/20/06 10:00 AM Desc: GBR-49/612213-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bicarbonate Alkalinity	112	mg/L	5.00	0.500	1.00	10076934	EPA310.1	E1640226	01/03/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10076934	EPA310.1	3812-32-6	01/03/07
Hydroxide CaCO3	0.500 U	mg/L	5.00	0.500	0.500	10076934	EPA310.1		01/03/07
Total Alkalinity CaCO3	112	mg/L	5.00	0.500	1.00	10076934	EPA310.1	T-005	01/03/07
Specific_Conductance	4520	umhos/cm	1.00	1.00	2.00	10076977	EPA120.1	10-34-4	12/29/06

Lab #: 30965GW5 Sampled: 12/20/06 10:00 AM Desc: GBR-17/612213-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	2000	mg/L	1.00	2.50	5.00	10076615	EPA160.1	10-33-3	12/27/06
Calcium	273	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-70-2	12/28/06
Iron	4.30	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-89-6	12/28/06
Magnesium	22.6	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-95-4	12/28/06
Manganese	0.235	mg/L	1.00	0.0100	0.0200	10076739	EPA6010	7439-96-5	12/28/06
Potassium	7.27	mg/L	1.00	0.100	0.200	10076739	EPA6010	7440-09-7	12/28/06
Sodium	222	mg/L	1.00	0.500	1.00	10076739	EPA6010	7440-23-5	12/28/06
Total Hardness (as CaCO3)	696	mg/L	1.00	0.100	0.200	10076739	SM2340B	40-11-9	12/28/06
Bicarbonate Alkalinity	163	mg/L	5.00	0.500	1.00	10076934	EPA310.1	E1640226	01/03/07
Carbonate Alkalinity	0.500 U	mg/L	5.00	0.500	1.00	10076934	EPA310.1	3812-32-6	01/03/07
Hydroxide CaCO3	0.500 U	mg/L	5.00	0.500	0.500	10076934	EPA310.1		01/03/07
Total Alkalinity CaCO3	164	mg/L	5.00	0.500	1.00	10076934	EPA310.1	T-005	01/03/07
Specific_Conductance	2500	umhos/cm	1.00	1.00	2.00	10076977	EPA120.1	10-34-4	12/29/06

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Date Sampled: Dec 20, 2006
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Quality Report

Quality Control Batch: 10076615 **Analyst: RMV**

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1420	mg/L	1500	94.93	54.32-138.56

Quality Control Batch: 10076739 **Analyst: EVB**

Blank	Result	Units
Calcium	0.100U	mg/L
Iron	0.0100U	mg/L
Magnesium	0.0100U	mg/L
Manganese	0.0100U	mg/L
Potassium	0.100U	mg/L
Sodium	0.500U	mg/L
Total Hardness (as CaCO3)	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Calcium	4.92	mg/L	5.00	98.34	49.09-141.67
Iron	4.88	mg/L	5.00	97.69	49.43-140.21
Magnesium	5.31	mg/L	5.00	106.15	49.57-140.35
Manganese	5.07	mg/L	5.00	101.33	49.43-140.21
Potassium	5.24	mg/L	5.00	104.86	49.54-140.32
Sodium	4.78	mg/L	5.00	95.52	49.43-140.21
Total Hardness (as CaCO3)	34.1	mg/L	33.1	103.20	62.28-133.26

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Calcium	349	mg/L	5.00	171.42	47.68-150.22	340

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Quality Control Batch: 10076739 **Analyst: EVB**

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Iron	9.93	mg/L	5.00	95.43	50.64-148.50	5.16
Magnesium	31.0	mg/L	5.00	100.89	50.43-149.01	26.0
Manganese	5.48	mg/L	5.00	102.91	50.64-148.50	0.335
Potassium	13.7	mg/L	5.00	111.32	50.49-148.89	8.14
Sodium	301	mg/L	5.00	145.30	50.64-148.50	294

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Calcium	344	mg/L	5.00	86.98	47.68-150.22	340	1.22	20.54
Iron	9.95	mg/L	5.00	95.84	50.64-148.50	5.16	0.21	19.70
Magnesium	31.0	mg/L	5.00	101.07	50.43-149.01	26.0	0.03	19.72
Manganese	5.52	mg/L	5.00	103.74	50.64-148.50	0.335	0.76	19.70
Potassium	13.0	mg/L	5.00	96.33	50.49-148.89	8.14	5.62	19.72
Sodium	304	mg/L	5.00	215.88	50.64-148.50	294	1.17	19.70

Quality Control Batch: 10076934 **Analyst: LCC**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	90.8	mg/L	100	90.76	58.94-137.60

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Pinnacle Laboratories
2709 D Pan American Freeway NE
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PO #: 612213
Client Project #: LODE
Date Sampled: Dec 20, 2006
Jan 4, 2007; Invoice: 30965

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 12/21/06 Page: 1 of 1

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) HCRA 24 hr TAT	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Total Ca, Mg, K, Na, Fe, Mn	TOC	Gen Chemistry:	Alk, Acidity, Bicarb, Carbon	TDS, EC	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (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
GBR-50/612213-01	12/20/06	1000	GW	30965	X					X	X		X	X													
GBR-48/612213-02	"	1056	"	2						X	X		"	"													
GBR-32/612213-03	"	1132	"	3						X	X		"	"													
GBR-49/612213-04	"	1233	"	4						X	X		"	"													
GBR-17/612213-05	↓	1224	↓	5						X	X		↓	↓													

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:	RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #: 612213	Total Number of Containers	PENSACOLA - STL-FL	Signature: Greg M. Sexton Time: 1700	Signature: Time:
PROJ. NAME: LODE	Chain of Custody Seals	ESL - OR	Printed Name: Greg M. Sexton Date: 12/21/06	Printed Name: Date:
QC LEVEL: STD? IV	Received Intact?	ATEL - AZ	Pinnacle Laboratories, Inc.	Company
QC REQUIRED: MS MSD BLANK	Received Good Cond./Cold	ATEL - MARION	RECEIVED BY: 1.	RECEIVED BY: 2.
TAT: STANDARD RUSH!!	LAB NUMBER:	ATEL - MELMORE	Signature: Time:	Signature: Time: 0947
DUE DATE: 1/5/07	COMMENTS:	FCL X	Printed Name: Date:	Printed Name: Date: 12/22/06
RUSH SURCHARGE: —		EHL	Company	Company
CLIENT DISCOUNT: —		GEL		
SPECIAL CERTIFICATION REQUIRED: YES (NO)	1.7 °C	WCAS		
		WOHL		

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE:_____ PAGE:____ OF ____

PLI Accession #: 612213

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services
ADDRESS: 26 CR 3500
Flora Vista, NM
PHONE: 505-334 2791
FAX:

BILL TO: Bill Robertson
COMPANY: Giant
ADDRESS: 111 CR 4990
Bloomfield, NM 87413

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
GBR-50	122006	1000	GW	01
GBR-48	122006	1056	GW	02
GBR-32	122006	1132	GW	03
GBR-49	122006	1233	GW	04
GBR-17	122006	1224	GW	05
TripBlank	12/9/06	1500	AQ	06

ANALYSIS REQUEST

	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: Alk+Bicarb/carb, TDS, EC, SO4, Cl, pH, Hardness	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8) 3/12/21a	RCRA Metals by TCLP (Method1311)	Metals: Ca, Mg, K, Na, Fe, Mn	NUMBER OF CONTAINERS
GBR-50			X															X	X			X		5
GBR-48			X															X	X			X	X	5
GBR-32			X															X	X			X		5
GBR-49			X															X	X			X	X	5
GBR-17			X															X	X					5
TripBlank			X															X						2

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION	
PROJ. NO.:	
PROJ. NAME:	Giant Former Refinery
P.O. NO.:	
SHIPPED VIA:	UPS

SAMPLE RECEIPT	
NO CONTAINERS	26
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	Y
BLUE ICE/ICE	5.2°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ | METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:
* Large Bottle for GBR-49 only 2/3 full (Alk, gr, TOH, TDS, EC)

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Ashley Ager Time: 1400	Signature: MNee Time: 1600
Printed Name: Ashley L. Ager Date: 122006	Printed Name: M Nee Date: 122006
Company: Lodestar	Company: Lodestar
See Reverse Side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: MNee Time: 1400	Signature: Greg M Sexton Time: 1133
Printed Name: M Nee Date: 122006	Printed Name: Greg M Sexton Date: 12/20/06
Company: Lodestar	Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **701147**
February 23, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name GIANT FORMER REFINERY
Project Number 30002

Attention: MARTIN NEE/BILL ROBERTSON

On 01/25/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

EPA Methods 624 and 150.1 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All other analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 701147
PROJECT #	: 30002	DATE RECEIVED	: 01/25/2007
PROJECT NAME	: GIANT FORMER REFINERY	REPORT DATE	: 02/23/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
701147 - 01	GBR-24D	AQUEOUS	01/23/2007
701147 - 02	GBR-30	AQUEOUS	01/23/2007
701147 - 03	INFLUENT	AQUEOUS	01/23/2007
701147 - 04	EFFLUENT	AQUEOUS	01/23/2007
701147 - 05	GRW-3	AQUEOUS	01/23/2007
701147 - 06	GBR-31	AQUEOUS	01/23/2007
701147 - 07	GBR-52	AQUEOUS	01/23/2007
701147 - 08	GBR-51	AQUEOUS	01/23/2007
701147 - 09	GRW-6	AQUEOUS	01/23/2007
701147 - 10	SHS-19	AQUEOUS	01/23/2007
701147 - 11	SHS-18	AQUEOUS	01/23/2007
701147 - 12	TRIP BLANK	AQUEOUS	01/15/2007

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Report Summary

Date Received: Jan 26, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
33014GW1	GBR-24D/701147-01	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW2	GBR-30/701147-02	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW3	Influent/701147-03	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
33014GW4	Effluent/701147-04	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW5	GRW-3/701147-05	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW6	GBR-31/701147-06	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW7	GBR-52/701147-07	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
33014GW8	GBR-51/701147-08	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
33014GW9	GRW-6/701147-09	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA8270	CLS	Main Lab	
		SM2340B	EVB	Main Lab	
		XBNE	CDG	Main Lab	
33014GW10	SHS-19/701147-10	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	
		EPA6010	EVB	Main Lab	
		SM2340B	EVB	Main Lab	
33014GW11	SHS-18/701147-11	EPA120.1	LCC	Main Lab	Ground Water
		EPA160.1	RMV	Main Lab	
		EPA310.1	LCC	Main Lab	
		EPA325.2	JGK	Main Lab	
		EPA375.2	JGK	Main Lab	

PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	DATE RECEIVED	: 01/25/2007
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	GBR-24D	AQUEOUS	01/23/2007	02/22/2007
02	GBR-30	AQUEOUS	01/23/2007	02/22/2007
03	INFLUENT	AQUEOUS	01/23/2007	02/22/2007

PARAMETER	GBR-24D	GBR-30	INFLUENT
PH (150.1)	8.0	8.0	7.9
TEMPERATURE (°C)	19.1	19.5	18.5

CHEMIST NOTES:
N/A

PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	DATE RECEIVED	: 01/25/2007
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
04	EFFLUENT	AQUEOUS	01/23/2007	02/22/2007
05	GRW-3	AQUEOUS	01/23/2007	02/22/2007
06	GBR-31	AQUEOUS	01/23/2007	02/22/2007

PARAMETER	EFFLUENT	GRW-3	GBR-31
PH (150.1)	8.1	8.0	7.9
TEMPERATURE (°C)	18.4	18.4	19.0

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	DATE RECEIVED	: 01/25/2007
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
07	GBR-52	AQUEOUS	01/23/2007	02/22/2007
08	GBR-51	AQUEOUS	01/23/2007	02/22/2007
09	GRW-6	AQUEOUS	01/23/2007	02/22/2007

PARAMETER	GBR-52	GBR-51	GRW-6
PH (150.1)	8.1	8.1	8.3
TEMPERATURE (°C)	18.7	19.1	19.4

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	DATE RECEIVED	: 01/25/2007
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
10	SHS-19	AQUEOUS	01/23/2007	02/22/2007
11	SHS-18	AQUEOUS	01/23/2007	02/22/2007

PARAMETER	SHS-19	SHS-18
PH (150.1)	8.8	9.0
TEMPERATURE (°C)	19.0	19.5

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	DATE ANALYZED	: 02/22/2007

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	701147-03	7.87	7.95	1
TEMPERATURE (°C)		18.5	18.5	

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 701147
PROJECT #	: 30002	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	DATE ANALYZED	: 02/22/2007

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	701147-06	7.91	7.90	0
TEMPERATURE (°C)		19.0	18.6	

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST BY EPA METHOD 624 (GC/MS)
CLIENT : LODESTAR
PROJECT # : 30002
PROJECT NAME : GIANT FORMER REFINERY

PINNACLE I.D. : 701147
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	GBR-24D	AQUEOUS	01/23/2007	NA	02/06/2007	1
02	GBR-30	AQUEOUS	01/23/2007	NA	02/06/2007	1
03	INFLUENT	AQUEOUS	01/23/2007	NA	02/06/2007	1

PARAMETER	DET. LIMIT	UNITS	GBR-24D	GBR-30	INFLUENT	
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
1,1-DICHLOROETHANE	**0.3**	**UG/L**	**0.4**	< 0.3	< 0.3	J1
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROETHANE (EDC)	**0.5**	**UG/L**	**2.6**	< 0.5	< 0.5	J1
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	J1
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
DIBROMOCHLOROMETHANE	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOFORM	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1

SURROGATE:				
1,2-DICHLOROETHANE-D4 (%)		110	103	102
SURROGATE LIMITS	(76 - 114)			
TOLUENE-D8 (%)		107	103	102
SURROGATE LIMITS	(88 - 110)			
BROMOFLUOROBENZENE (%)		103	96	95
SURROGATE LIMITS	(86 - 115)			

CHEMIST NOTES:

J1 = Estimated concentration is less than the lower calibration level but is above the method detection limit.

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST BY EPA METHOD 624 (GC/MS)
CLIENT : LODESTAR — PINNACLE I.D. : 701147
PROJECT # : 30002 — ANALYST : DRK
PROJECT NAME : GIANT FORMER REFINERY

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	EFFLUENT	AQUEOUS	01/23/2007	NA	02/06/2007	1
05	GRW-3	AQUEOUS	01/23/2007	NA	02/06/2007	1
06	GBR-31	AQUEOUS	01/23/2007	NA	02/06/2007	1

PARAMETER	DET. LIMIT	UNITS	EFFLUENT	GRW-3	GBR-31	
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
ETHYLBENZENE	**0.5**	**UG/L**	< 0.5	**4.6**	< 0.5	J1
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3	J1
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	J1
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
DIBROMOCHLOROMETHANE	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TETRACHLOROETHENE	**0.5**	**UG/L**	< 0.5	< 0.5	**0.6**	J1
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOFORM	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1

SURROGATE:				
1,2-DICHLOROETHANE-D4 (%)		99	110	100
SURROGATE LIMITS	(76 - 114)			
TOLUENE-D8 (%)		97	110	98
SURROGATE LIMITS	(88 - 110)			
BROMOFLUOROBENZENE (%)		94	108	94
SURROGATE LIMITS	(86 - 115)			

CHEMIST NOTES:

J1 = Estimated concentration is less than the lower calibration level but is above the method detection limit.

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST BY EPA METHOD 624 (GC/MS)
CLIENT : LODESTAR — PINNACLE I.D. : 701147
PROJECT # : 30002 — ANALYST : DRK
PROJECT NAME : GIANT FORMER REFINERY

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	GBR-52	AQUEOUS	01/23/2007	NA	02/06/2007	1
08	GBR-51	AQUEOUS	01/23/2007	NA	02/06/2007	1
09	GRW-6	AQUEOUS	01/23/2007	NA	02/06/2007	1

PARAMETER	DET. LIMIT	UNITS	GBR-52	GBR-51	GRW-6	
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3	J1
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	J1
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	J1
DIBROMOCHLOROMETHANE	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
BROMOFORM	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	J1
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
SURROGATE:						
1,2-DICHLOROETHANE-D4 (%)			103	104	103	
SURROGATE LIMITS	(76 - 114)					
TOLUENE-D8 (%)			103	102	100	
SURROGATE LIMITS	(88 - 110)					
BROMOFLUOROBENZENE (%)			99	97	95	
SURROGATE LIMITS	(86 - 115)					

CHEMIST NOTES:

J1 = Estimated concentration is less than the lower calibration level but is above the method detection limit.

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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602 LIST BY EPA METHOD 624 (GC/MS)
CLIENT : LODESTAR — PINNACLE I.D. : 701147
PROJECT # : 30002 — ANALYST : DRK
PROJECT NAME : GIANT FORMER REFINERY

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	SHS-19	AQUEOUS	01/23/2007	NA	02/06/2007	1
11	SHS-18	AQUEOUS	01/23/2007	NA	02/06/2007	1
12	TRIP BLANK	AQUEOUS	01/15/2007	NA	**02/06/07-T1**	1

PARAMETER	DET. LIMIT	UNITS	SHS-19	SHS-18	TRIP BLANK	
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	J1
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
TRICHLOROFLUOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3	**J1**
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	**J1**
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	**J1**
DIBROMOCHLOROMETHANE	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	**J1**
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
BROMOFORM	**0.3**	UG/L	< 0.3	< 0.3	< 0.3	**J1**
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	**J1**

SURROGATE:				
1,2-DICHLOROETHANE-D4 (%)		103	103	99
SURROGATE LIMITS	(76 - 114)			
TOLUENE-D8 (%)		101	103	97
SURROGATE LIMITS	(88 - 110)			
BROMOFLUOROBENZENE (%)		97	99	93
SURROGATE LIMITS	(86 - 115)			

J1 = Estimated concentration is less than the lower calibration level but is above the method detection limit.
T1 = Trip Blank was analyzed past the 14 day hold time.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 601/602 BY EPA 624 (GC/MS)	PINNACLE I.D.	: 701147
BLANK I.D.	: 020607A2	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 02/06/2007
PROJECT #	: 30002	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	ANALYST	: DRK

PARAMETER	UNITS		
METHYL -t-BUTYL ETHER	UG/L	<2.5	
BENZENE	UG/L	<0.5	J1
TOLUENE	UG/L	<0.5	J1
ETHYLBENZENE	UG/L	<0.5	J1
TOTAL XYLENES	UG/L	<2.0	
CHLOROMETHANE	UG/L	<1.0	
VINYL CHLORIDE	UG/L	<0.5	J1
BROMOMETHANE	UG/L	<1.0	
CHLOROETHANE	UG/L	<0.5	
TRICHLOROFLUOROMETHANE	UG/L	<0.2	J1
1,1-DICHLOROETHENE	UG/L	<0.2	J1
METHYLENE CHLORIDE	UG/L	<2.0	
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	
1,1-DICHLOROETHANE	UG/L	<0.3	J1
CHLOROFORM	UG/L	<0.5	J1
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	J1
1,1,1-TRICHLOROETHANE	UG/L	<1.0	
CARBON TETRACHLORIDE	UG/L	<0.2	J1
1,2-DICHLOROPROPANE	UG/L	<0.2	J1
TRICHLOROETHENE	UG/L	<0.3	J1
BROMODICHLOROMETHANE	UG/L	<0.2	J1
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	J1
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	J1
1,1,2-TRICHLOROETHANE	UG/L	<0.2	J1
DIBROMOCHLOROMETHANE	UG/L	**<0.3**	J1
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5	J1
TETRACHLOROETHENE	UG/L	<0.5	J1
CHLOROBENZENE	UG/L	<0.5	J1
BROMOFORM	UG/L	**<0.3**	J1
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5	J1
1,3-DICHLOROBENZENE	UG/L	<0.5	J1
1,4-DICHLOROBENZENE	UG/L	<0.5	J1
1,2-DICHLOROBENZENE	UG/L	<0.5	J1

SURROGATE:		
1,2-DICHLOROETHANE-D4 (%)		102
SURROGATE LIMITS	(76 - 114)	
TOLUENE-D8 (%)		102
SURROGATE LIMITS	(88 - 110)	
BROMOFLUOROBENZENE (%)		96
SURROGATE LIMITS	(86 - 115)	

CHEMIST NOTES:

J1 = Estimated concentration is less than the lower calibration level but is above the method detection limit.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 601/602 LIST BY EPA METHOD 624	PINNACLE I.D.	: 701147
SAMPLE ID	: 701147-02	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 02/06/2007
PROJECT #	: 30002	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GIANT FORMER REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
METHYL -t-BUTYL ETHER	<2.5	40.0	36.5	91	36.4	91	0	(70 - 130)	20
BENZENE	<0.5	40.0	39.7	99	40.0	100	1	(39 - 150)	20
TOLUENE	<0.5	40.0	39.0	97	39.2	98	1	(46 - 148)	20
ETHYLBENZENE	<0.5	40.0	38.8	97	38.9	97	0	(32 - 160)	20
TOTAL XYLENES	<2.0	120	120	100	120	100	0	(80 - 120)	20
CHLOROMETHANE	<1.0	40.0	37.1	93	37.1	93	0	(D - 193)	20
VINYL CHLORIDE	<0.5	40.0	41.9	105	43.7	109	4	(28 - 163)	20
BROMOMETHANE	<1.0	40.0	27.7	69	29.2	73	5	(D - 144)	20
CHLOROETHANE	<0.5	40.0	49.7	124	52.1	130	5	(46 - 137)	20
TRICHLOROFLUOROMETHANE	<0.2	40.0	35.7	89	34.8	87	2	(21 - 156)	20
1,1-DICHLOROETHENE	<0.2	40.0	32.1	80	32.7	82	2	(28 - 167)	20
METHYLENE CHLORIDE	<2.0	40.0	34.8	87	34.8	87	0	(25 - 162)	20
TRANS-1,2-DICHLOROETHENE	<1.0	40.0	34.6	86	35.1	88	1	(38 - 155)	20
1,1-DICHLOROETHANE	<0.3	40.0	36.5	91	37.3	93	2	(47 - 132)	20
CHLOROFORM	<0.5	40.0	38.5	96	38.9	97	1	(49 - 133)	20
1,2-DICHLOROETHANE (EDC)	<0.5	40.0	38.4	96	38.3	96	0	(51 - 147)	20
1,1,1-TRICHLOROETHANE	<1.0	40.0	37.8	94	37.1	93	2	(41 - 138)	20
CARBON TETRACHLORIDE	<0.2	40.0	37.9	95	38.3	96	1	(43 - 143)	20
1,2-DICHLOROPROPANE	<0.2	40.0	38.2	95	39.3	98	3	(44 - 156)	20
TRICHLOROETHENE	<0.3	40.0	36.6	91	37.0	92	1	(35 - 146)	20
BROMODICHLOROMETHANE	<0.2	40.0	37.9	95	38.2	95	1	(42 - 172)	20
CIS-1,3-DICHLOROPROPENE	<0.2	40.0	37.9	95	38.3	96	1	(22 - 178)	20
TRANS-1,3-DICHLOROPROPENE	<0.2	40.0	35.4	88	35.2	88	0	(22 - 178)	20
1,1,2-TRICHLOROETHANE	<0.2	40.0	40.3	101	39.7	99	1	(39 - 136)	20
DIBROMOCHLOROMETHANE	<0.2	40.0	35.9	90	35.2	88	2	(24 - 191)	20
1,2-DIBROMOETHANE (EDB)	<0.5	40.0	38.9	97	37.9	95	3	(80 - 120)	20
TETRACHLOROETHENE	<0.5	40.0	40.0	100	40.8	102	2	(26 - 162)	20
CHLOROBENZENE	<0.5	40.0	38.8	97	38.8	97	0	(38 - 150)	20
BROMOFORM	<0.5	40.0	36.6	92	36.1	90	2	(13 - 159)	20
1,1,2,2-TETRACHLOROETHANE	<0.5	40.0	40.1	100	40.2	100	0	(8 - 184)	20
1,3-DICHLOROBENZENE	<0.5	40.0	37.4	93	38.7	97	3	(7 - 187)	20
1,4-DICHLOROBENZENE	<0.5	40.0	37.3	93	38.0	95	2	(42 - 143)	20
1,2-DICHLOROBENZENE	<0.5	40.0	38.6	96	38.7	97	0	(D - 208)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

EPA6010	EVB	Main Lab
SM2340B	EVB	Main Lab

Certificate of Results
Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

ACCREDITED IN ACCORDANCE WITH nela

Jefferson S. Flowers, Ph.D.
President/Technical Director

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Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Analysis Report

Lab #: 33014GW1 Sampled: 01/23/07 10:10 AMDesc: GBR-24D/701147-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	421	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	40.5	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	14.7	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	503	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	1220	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	213	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	213	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	3490	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	190 I	mg/L	30.0	150	300	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	2000	mg/L	30.0	150	300	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	4500	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.320 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.270 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW1 Sampled: 01/23/07 10:10 AMDesc: GBR-24D/701147-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Fluorene	0.340 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.330 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.870	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	39.36%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	49.22%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	52.60%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

Lab #: 33014GW2 Sampled: 01/23/07 10:45 AMDesc: GBR-30/701147-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	370	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	35.2	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	11.7	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	284	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	1070	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	259	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	259	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	2570	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	144 I	mg/L	20.0	100	200	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	1420	mg/L	30.0	150	300	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	3320	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW2 Sampled: 01/23/07 10:45 AM Desc: GBR-30/701147-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	61.32%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	65.46%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	63.78%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

Lab #: 33014GW3 Sampled: 01/23/07 10:55 AM Desc: Influent/701147-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	330	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	28.2	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	10.9	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	389	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	941	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Bicarbonate Alkalinity	315	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	316	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW3 Sampled: 01/23/07 10:55 AMDesc: Influent/701147-03

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
TDS	2550	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	100 U	mg/L	20.0	100	200	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	1510	mg/L	30.0	150	300	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	3480	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07

Lab #: 33014GW4 Sampled: 01/23/07 11:25 AMDesc: Effluent/701147-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Antimony	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-36-0	01/26/07
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-38-2	01/26/07
Beryllium	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-41-7	01/26/07
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-43-9	01/26/07
Chromium	0.00876	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-47-3	01/26/07
Copper	0.00860	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-50-8	01/26/07
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7439-92-1	01/26/07
Nickel	0.0432	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-02-0	01/26/07
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10078198	EPA6020	7782-49-2	01/26/07
Silver	0.00190	mg/L	1.00	0.000500	0.00100	10078198	EPA6020	7440-22-4	01/26/07
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10078198	EPA6020	7440-28-0	01/26/07
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10078198	EPA6020	7440-66-6	01/26/07
Calcium	251	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	24.6	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	9.77	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	357	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	727	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Mercury	0.000200 U	mg/L	1.00	0.000200	0.000400	10078296	EPA7470	7439-97-6	01/31/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	337	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW4 Sampled: 01/23/07 11:25 AM Desc: Effluent/701147-04

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Alkalinity CaCO3	338	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	2250	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	100 U	mg/L	20.0	100	200	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	1270	mg/L	30.0	150	300	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	3160	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	42.76%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	52.16%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	80.54%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

Lab #: 33014GW5 Sampled: 01/23/07 11:41 AM Desc: GRW-3/701147-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW5 Sampled: 01/23/07 11:41 AM Desc: GRW-3/701147-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	152	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	28.9	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	6.71	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	329	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	499	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	748	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	1.65	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	750	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	1710	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	75.0 U	mg/L	15.0	75.0	150	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	580 L	mg/L	5.00	25.0	50.0	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	2620	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	1.87	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.270 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.350 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.250 I	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07
Fluorene	1.69	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07

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Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW5 Sampled: 01/23/07 11:41 AMDesc: GRW-3/701147-05

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Naphthalene	1.09	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	56.90%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	74.80%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	56.70%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

Lab #: 33014GW6 Sampled: 01/23/07 12:20 PMDesc: GBR-31/701147-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	328	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	27.9	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	10.7	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	351	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	933	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	228	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	228	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	2590	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	75.0 U	mg/L	15.0	75.0	150	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	1540	mg/L	20.0	100	200	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	3280	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07

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Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW6 Sampled: 01/23/07 12:20 PMDesc: GBR-31/701147-06

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	63.38%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	72.74%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	67.40%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

Lab #: 33014GW7 Sampled: 01/23/07 01:02 PMDesc: GBR-52/701147-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	344	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	27.3	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	9.70	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	253	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	971	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Bicarbonate Alkalinity	202	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	203	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	2280	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	75.0 U	mg/L	15.0	75.0	150	10078456	EPA325.2	16887-00-6	02/01/07

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PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW7 Sampled: 01/23/07 01:02 PMDesc: GBR-52/701147-07

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sulfate	1370	mg/L	20.0	100	200	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	2920	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07

Lab #: 33014GW8 Sampled: 01/23/07 01:25 PMDesc: GBR-51/701147-08

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	398	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	30.6	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	9.53	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	282	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	1120	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Bicarbonate Alkalinity	214	mg/L	1.00	0.100	0.200	10078331	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	0.100 U	mg/L	1.00	0.100	0.200	10078331	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078331	EPA310.1		01/29/07
Total Alkalinity CaCO3	215	mg/L	1.00	0.100	0.200	10078331	EPA310.1	T-005	01/29/07
TDS	2620	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	75.0 U	mg/L	15.0	75.0	150	10078456	EPA325.2	16887-00-6	02/01/07
Sulfate	1570	mg/L	20.0	100	200	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	3290	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07

Lab #: 33014GW9 Sampled: 01/23/07 01:53 PMDesc: GRW-6/701147-09

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	182	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	29.8	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	6.70	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	402	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	576	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Base_Neutral_Extraction	1000	mL	1.00			10078318	XBNE		01/30/07
Bicarbonate Alkalinity	618	mg/L	1.00	0.100	0.200	10078332	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	1.52	mg/L	1.00	0.100	0.200	10078332	EPA310.1	3812-32-6	01/29/07

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Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Lab #: 33014GW9 Sampled: 01/23/07 01:53 PMDesc: GRW-6/701147.09

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078332	EPA310.1		01/29/07
Total Alkalinity CaCO3	619	mg/L	1.00	0.100	0.200	10078332	EPA310.1	T-005	01/29/07
TDS	2040	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	75.0 U	mg/L	15.0	75.0	150	10078457	EPA325.2	16887-00-6	02/01/07
Sulfate	926	mg/L	20.0	100	200	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	2870	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07
1-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	090-12-0	02/07/07
2-methyl-Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-57-6	02/07/07
Acenaphthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	83-32-9	02/07/07
Acenaphthylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	208-96-8	02/07/07
Anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	120-12-7	02/07/07
Benzo(a)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	56-55-3	02/07/07
Benzo(a)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	50-32-8	02/07/07
Benzo(b)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	205-99-2	02/07/07
Benzo(g,h,i)perylene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	191-24-2	02/07/07
Benzo(k)fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	207-08-9	02/07/07
Chrysene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	218-01-9	02/07/07
Dibenz(a,h)anthracene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	53-70-3	02/07/07
Fluoranthene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	206-44-0	02/07/07
Fluorene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	86-73-7	02/07/07
Indeno(1,2,3-cd)pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	193-39-5	02/07/07
Naphthalene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	91-20-3	02/07/07
Phenanthrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	85-01-8	02/07/07
Pyrene	0.200 U	ug/L	1.00	0.200	0.400	10078702	EPA8270	129-00-0	02/07/07
Surr:2-Fluorobiphenyl (73-217%)	41.54%		1.00	0.0100	0.0200	10078702	EPA8270	321-60-8	02/07/07
Surr:Nitrobenzene-d5 (77-228%)	56.24%		1.00	0.0100	0.400	10078702	EPA8270		02/07/07
Surr:Terphenyl-d14 (86-256%)	92.84%		1.00	0.0100	0.0200	10078702	EPA8270		02/07/07

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Lab #: 33014GW10 Sampled: 01/23/07 03:05 PM **Desc:** SHS-19/701147-10

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	135	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	20.8	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	7.16	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	370	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	423	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Bicarbonate Alkalinity	785	mg/L	1.00	0.100	0.200	10078332	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	1.80	mg/L	1.00	0.100	0.200	10078332	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078332	EPA310.1		01/29/07
Total Alkalinity CaCO3	786	mg/L	1.00	0.100	0.200	10078332	EPA310.1	T-005	01/29/07
TDS	1650	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	85.6 I	mg/L	10.0	50.0	100	10078457	EPA325.2	16887-00-6	02/01/07
Sulfate	460	mg/L	20.0	100	200	10078460	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	2600	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07

Lab #: 33014GW11 Sampled: 01/23/07 03:10 PM **Desc:** SHS-18/701147-11

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	129	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-70-2	01/30/07
Magnesium	15.4	mg/L	1.00	0.0100	0.0200	10078247	EPA6010	7439-95-4	01/30/07
Potassium	4.56	mg/L	1.00	0.100	0.200	10078247	EPA6010	7440-09-7	01/30/07
Sodium	354	mg/L	1.00	0.500	1.00	10078247	EPA6010	7440-23-5	01/30/07
Total Hardness (as CaCO3)	385	mg/L	1.00	0.100	0.200	10078249	SM2340B	40-11-9	01/30/07
Bicarbonate Alkalinity	893	mg/L	1.00	0.100	0.200	10078332	EPA310.1	E1640226	01/29/07
Carbonate Alkalinity	3.63	mg/L	1.00	0.100	0.200	10078332	EPA310.1	3812-32-6	01/29/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.100	10078332	EPA310.1		01/29/07
Total Alkalinity CaCO3	897	mg/L	1.00	0.100	0.200	10078332	EPA310.1	T-005	01/29/07
TDS	1530	mg/L	1.00	2.50	5.00	10078395	EPA160.1	10-33-3	01/30/07
Chloride	111	mg/L	10.0	50.0	100	10078457	EPA325.2	16887-00-6	02/01/07
Sulfate	109	mg/L	10.0	50.0	100	10078461	EPA375.2	14808-79-8	02/02/07
Specific_Conductance	2500	umhos/cm	1.00	1.00	2.00	10078621	EPA120.1	10-34-4	02/02/07

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Quality Report

Quality Control Batch: 10078198 **Analyst: EVB**

Blank	Result	Units
Antimony	0.00100U	mg/L
Arsenic	0.00100U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.00100U	mg/L
Chromium	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L
Zinc	0.0100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Antimony	0.506	mg/L	0.500	101.13	61.24-133.24
Arsenic	0.518	mg/L	0.500	103.53	61.94-133.16
Beryllium	0.561	mg/L	0.500	112.14	62.45-133.19
Cadmium	0.547	mg/L	0.500	109.48	61.75-133.27
Chromium	0.542	mg/L	0.500	108.31	45.90-136.68
Copper	0.559	mg/L	0.500	111.85	62.35-133.09
Lead	0.533	mg/L	0.500	106.63	62.15-133.13
Nickel	0.551	mg/L	0.500	110.11	61.53-133.29
Selenium	0.535	mg/L	0.500	107.08	60.88-133.36
Silver	0.534	mg/L	0.500	106.75	61.43-133.19
Thallium	0.548	mg/L	0.500	109.64	61.32-133.32
Zinc	0.508	mg/L	0.500	101.52	46.42-136.84

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Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Antimony	0.106	mg/L	0.100	103.57	50.77-146.77	0.00208
Arsenic	0.145	mg/L	0.100	144.85	51.05-147.77	0.00100U
Beryllium	0.124	mg/L	0.100	124.03	50.98-148.48	0.000500U
Cadmium	0.110	mg/L	0.100	110.17	51.04-147.22	0.00100U
Chromium	0.110	mg/L	0.100	100.30	31.23-150.75	0.00960
Copper	0.103	mg/L	0.100	93.32	51.00-147.96	0.00972
Lead	0.125	mg/L	0.100	125.37	51.29-147.83	0.00100U
Nickel	0.0973	mg/L	0.100	95.59	50.71-147.07	0.00168
Selenium	0.165	mg/L	0.100	164.51	50.83-146.65	0.00200U
Silver	0.0534	mg/L	0.0500	106.78	50.47-147.19	0.000500U
Thallium	0.139	mg/L	0.100	139.08	50.77-147.13	0.00100U
Zinc	0.106	mg/L	0.100	98.90	31.87-150.97	0.00691

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony	0.0763	mg/L	0.100	74.18	50.77-146.77	0.00208	32.31	20.52
Arsenic	0.105	mg/L	0.100	105.42	51.05-147.77	0.00100U	31.51	21.36
Beryllium	0.0936	mg/L	0.100	93.57	50.98-148.48	0.000500U	28.00	21.76
Cadmium	0.0832	mg/L	0.100	83.20	51.04-147.22	0.00100U	27.89	21.29
Chromium	0.0800	mg/L	0.100	70.41	31.23-150.75	0.00960	31.48	18.59
Copper	0.0764	mg/L	0.100	66.64	51.00-147.96	0.00972	29.74	21.71
Lead	0.0903	mg/L	0.100	90.26	51.29-147.83	0.00100U	32.57	21.67
Nickel	0.0681	mg/L	0.100	66.42	50.71-147.07	0.00168	35.28	20.98
Selenium	0.119	mg/L	0.100	118.69	50.83-146.65	0.00200U	32.36	20.14
Silver	0.0492	mg/L	0.0500	98.30	50.47-147.19	0.000500U	8.27	20.92
Thallium	0.100	mg/L	0.100	100.15	50.77-147.13	0.00100U	32.55	20.57
Zinc	0.0802	mg/L	0.100	73.31	31.87-150.97	0.00691	27.51	18.67

Quality Control Batch: 10078247 **Analyst: EVB**

Blank	Result	Units
Calcium	0.100U	mg/L

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Quality Control Batch: 10078247 **Analyst: EVB**

Blank	Result	Units
Magnesium	0.0100U	mg/L
Potassium	0.100U	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Calcium	9.35	mg/L	10.0	93.53	49.09-141.67
Magnesium	9.53	mg/L	10.0	95.28	49.57-140.35
Potassium	9.82	mg/L	10.0	98.20	49.54-140.32
Sodium	9.36	mg/L	10.0	93.60	49.43-140.21

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Calcium	72.6	mg/L	5.00	159.71	47.68-150.22	64.6
Magnesium	16.6	mg/L	5.00	161.94	50.43-149.01	8.51
Potassium	12.9	mg/L	5.00	159.94	50.49-148.89	4.92
Sodium	27.3	mg/L	5.00	159.84	50.64-148.50	19.4

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Calcium	69.0	mg/L	5.00	86.23	47.68-150.22	64.6	5.19	20.54
Magnesium	13.8	mg/L	5.00	106.33	50.43-149.01	8.51	18.27	19.72
Potassium	9.83	mg/L	5.00	98.08	50.49-148.89	4.92	27.20	19.72
Sodium	24.2	mg/L	5.00	96.52	50.64-148.50	19.4	12.29	19.70

Quality Control Batch: 10078249 **Analyst: EVB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	62.6	mg/L	66.2	94.62	62.28-133.26

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Quality Control Batch: 10078296 **Analyst: EVB**

Blank	Result	Units
Mercury	0.000200U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Mercury	0.00515	mg/L	0.00500	102.93	49.60-142.54

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Mercury	0.00501	mg/L	0.00500	100.14	45.84-150.78	0.000200U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00515	mg/L	0.00500	102.93	45.84-150.78	0.000200U	2.75	21.59

Quality Control Batch: 10078331 **Analyst: LCC**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	103	mg/L	100	103.28	63.23-132.71

Quality Control Batch: 10078332 **Analyst: LCC**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	94.4	mg/L	100	94.38	58.94-137.60

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Quality Control Batch: 10078395 **Analyst: RMV**

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1500	mg/L	1500	100.27	49.29-141.45

Quality Control Batch: 10078456 **Analyst: JGK**

Blank	Result	Units
Chloride	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	20.0	mg/L	20.0	99.95	58.27-138.07

Quality Control Batch: 10078457 **Analyst: JGK**

Blank	Result	Units
Chloride	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	51.8	mg/L	50.0	103.52	58.27-138.07

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chloride	49.3	mg/L	50.0	98.58	49.69-151.69	15.0U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	48.2	mg/L	50.0	96.30	49.69-151.69	15.0U	2.34	24.25

Quality Control Batch: 10078460 **Analyst: JGK**

Blank	Result	Units

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Quality Control Batch: 10078460 **Analyst: JGK**

Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	58.2	mg/L	60.0	97.00	80.00-120.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	166	mg/L	50.0	135.20	80.00-120.00	98.4

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	165	mg/L	50.0	133.20	80.00-120.00	98.4	0.60	20.00

Quality Control Batch: 10078461 **Analyst: JGK**

Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	59.9	mg/L	60.0	99.83	80.00-120.00

Quality Control Batch: 10078702 **Analyst: CLS**

Blank	Result	Units
Acenaphthene	0.200U	ug/L
Acenaphthylene	0.200U	ug/L
Anthracene	0.200U	ug/L
Benzo(a)anthracene	0.200U	ug/L
Benzo(a)pyrene	0.200U	ug/L
Benzo(b)fluoranthene	0.200U	ug/L
Benzo(g,h,i)perylene	0.200U	ug/L

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Feb 8, 2007; Invoice: 33014

Quality Control Batch: 10078702 **Analyst: CLS**

Blank	Result	Units
Benzo(k)fluoranthene	0.200U	ug/L
Chrysene	0.200U	ug/L
Dibenz(a,h)anthracene	0.200U	ug/L
Fluoranthene	0.200U	ug/L
Fluorene	0.200U	ug/L
Indeno(1,2,3-cd)pyrene	0.200U	ug/L
Naphthalene	0.200U	ug/L
Phenanthrene	0.200U	ug/L
Pyrene	0.200U	ug/L
1-methyl-Naphthalene	0.200U	ug/L
2-methyl-Naphthalene	0.200U	ug/L
Surr:Nitrobenzene-d5	27.6	ug/L
Surr:Terphenyl-d14	54.0	ug/L
Surr:2-Fluorobiphenyl	25.7	ug/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Acenaphthene	38.0	ug/L	50.0	75.96	49.73-140.51
Acenaphthylene	31.4	ug/L	50.0	62.86	49.74-140.52
Anthracene	38.7	ug/L	50.0	77.48	49.74-140.52
Benzo(a)anthracene	46.7	ug/L	50.0	93.34	49.74-140.52
Benzo(a)pyrene	45.0	ug/L	50.0	89.90	49.74-140.52
Benzo(b)fluoranthene	15.0	ug/L	50.0	30.02	49.74-140.52
Benzo(g,h,i)perylene	43.6	ug/L	50.0	87.12	49.74-140.52
Benzo(k)fluoranthene	65.9	ug/L	50.0	131.82	49.74-140.52
Chrysene	52.4	ug/L	50.0	104.88	49.74-140.52
Dibenz(a,h)anthracene	40.7	ug/L	50.0	81.48	49.74-140.52
Fluoranthene	34.4	ug/L	50.0	68.70	49.73-140.51
Fluorene	35.7	ug/L	50.0	71.36	49.73-140.51
Indeno(1,2,3-cd)pyrene	44.8	ug/L	50.0	89.52	49.74-140.52

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
Feb 8, 2007; Invoice: 33014

Quality Control Batch: 10078702 **Analyst: CLS**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Naphthalene	31.3	ug/L	50.0	62.54	49.74-140.52
Phenanthrene	42.3	ug/L	50.0	84.50	49.73-140.51
Pyrene	44.3	ug/L	50.0	88.60	49.74-140.52
1-methyl-Naphthalene	27.6	ug/L	50.0	55.26	49.74-140.52
2-methyl-Naphthalene	22.9	ug/L	50.0	45.84	49.73-140.51
Surr:Nitrobenzene-d5	41.7	ug/L	50.0	83.48	49.74-140.52
Surr:Terphenyl-d14	53.8	ug/L	50.0	107.66	49.74-140.52
Surr:2-Fluorobiphenyl	32.8	ug/L	50.0	65.56	49.74-140.52

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Acenaphthene	32.0	ug/L	50.0	64.06	50.53-149.47	0.200U
Acenaphthylene	28.0	ug/L	50.0	56.04	50.53-149.47	0.200U
Anthracene	38.1	ug/L	50.0	76.18	50.53-149.47	0.200U
Benzo(a)anthracene	43.2	ug/L	50.0	86.40	50.53-149.47	0.200U
Benzo(a)pyrene	40.7	ug/L	50.0	81.48	50.53-149.47	0.200U
Benzo(b)fluoranthene	21.8	ug/L	50.0	43.54	50.53-149.47	0.200U
Benzo(g,h,i)perylene	38.1	ug/L	50.0	76.24	50.53-149.47	0.200U
Benzo(k)fluoranthene	65.5	ug/L	50.0	130.92	50.53-149.47	0.200U
Chrysene	49.2	ug/L	50.0	98.42	50.53-149.47	0.200U
Dibenz(a,h)anthracene	37.6	ug/L	50.0	75.18	50.53-149.47	0.200U
Fluoranthene	34.3	ug/L	50.0	68.68	50.53-149.47	0.200U
Fluorene	33.8	ug/L	50.0	67.68	50.53-149.47	0.200U
Indeno(1,2,3-cd)pyrene	40.0	ug/L	50.0	79.94	50.53-149.47	0.200U
Naphthalene	28.9	ug/L	50.0	57.82	50.53-149.47	0.200U
Phenanthrene	41.4	ug/L	50.0	82.76	50.53-149.47	0.200U
Pyrene	43.6	ug/L	50.0	87.16	50.53-149.47	0.200U
1-methyl-Naphthalene	24.7	ug/L	50.0	49.38	50.53-149.47	0.200U
2-methyl-Naphthalene	19.6	ug/L	50.0	39.10	50.53-149.47	0.200U
Surr:Nitrobenzene-d5	39.5	ug/L	50.0	79.08	50.53-149.47	

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PO #: 701147
Client Project #: LODE
Date Sampled: Jan 23, 2007
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Quality Control Batch: 100078702 **Analyst: CLS**

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Surr:Terphenyl-d14	50.9	ug/L	50.0	101.84	50.53-149.47	
Surr:2-Fluorobiphenyl	28.3	ug/L	50.0	56.62	50.53-149.47	

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Acenaphthene	44.3	ug/L	50.0	88.60	50.53-149.47	0.200U	32.15	19.60
Acenaphthylene	32.3	ug/L	50.0	64.56	50.53-149.47	0.200U	14.13	19.61
Anthracene	39.0	ug/L	50.0	77.94	50.53-149.47	0.200U	2.28	19.60
Benzo(a)anthracene	42.7	ug/L	50.0	85.40	50.53-149.47	0.200U	1.16	19.61
Benzo(a)pyrene	40.3	ug/L	50.0	80.68	50.53-149.47	0.200U	0.99	19.60
Benzo(b)fluoranthene	21.7	ug/L	50.0	43.30	50.53-149.47	0.200U	0.55	19.61
Benzo(g,h,i)perylene	40.5	ug/L	50.0	80.96	50.53-149.47	0.200U	6.01	19.61
Benzo(k)fluoranthene	61.3	ug/L	50.0	122.54	50.53-149.47	0.200U	6.61	19.60
Chrysene	48.1	ug/L	50.0	96.10	50.53-149.47	0.200U	2.39	19.60
Dibenz(a,h)anthracene	38.2	ug/L	50.0	76.40	50.53-149.47	0.200U	1.61	19.61
Fluoranthene	34.4	ug/L	50.0	68.70	50.53-149.47	0.200U	0.03	19.60
Fluorene	36.0	ug/L	50.0	71.98	50.53-149.47	0.200U	6.16	19.60
Indeno(1,2,3-cd)pyrene	41.3	ug/L	50.0	82.56	50.53-149.47	0.200U	3.22	19.60
Naphthalene	33.7	ug/L	50.0	67.32	50.53-149.47	0.200U	15.18	19.61
Phenanthrene	43.4	ug/L	50.0	86.70	50.53-149.47	0.200U	4.65	19.60
Pyrene	43.0	ug/L	50.0	85.90	50.53-149.47	0.200U	1.46	19.61
1-methyl-Naphthalene	30.7	ug/L	50.0	61.36	50.53-149.47	0.200U	21.64	19.61
2-methyl-Naphthalene	27.5	ug/L	50.0	55.08	50.53-149.47	0.200U	33.94	19.60
Surr:Nitrobenzene-d5	53.6	ug/L	50.0	107.16	50.53-149.47		30.15	19.61
Surr:Terphenyl-d14	45.8	ug/L	50.0	91.62	50.53-149.47		10.57	19.61
Surr:2-Fluorobiphenyl	36.2	ug/L	50.0	72.48	50.53-149.47		24.57	19.61

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Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Additional Comments
High RPD or matrix spike values may be due to sample homogeneity of the spiked sample aliquots. The LCS validates the batch.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Cation-Anion Balance Worksheet

Accession Number: 701147-01

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	213		
Chloride	190	0.02821	5.35990
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	2000	0.02082	41.64000
Carbonate		0.03333	0.00000
Bi-Carbonate	213	0.01639	3.49107
	Total Anions =		**50.49097**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	421	0.04990	21.00790
Potassium	14.7	0.02558	0.37603
Magnesium	40.5	0.08229	3.33275
Sodium	503	0.04350	21.88050
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**46.597171**

Anion/Cation Balance (% difference) =	4.0%		
Total Anions+Cations =	3297	mg/l	(calculated)
Total Dissolved Solids =	3490	mg/l	(measured)
TDS/ion sum ratio =	1.06		
Electrical Cond =	4500	umh/cm	(measured)
TDS/EC ratio =	0.776		

Cation-Anion Balance Worksheet

Accession Number: 701147-02

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	259		
Chloride	144	0.02821	4.06224
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1420	0.02082	29.56440
Carbonate		0.03333	0.00000
Bi-Carbonate	259	0.01639	4.24501
	Total Anions =		**37.87165**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	370	0.04990	18.46300
Potassium	11.7	0.02558	0.29929
Magnesium	35.2	0.08229	2.89661
Sodium	284	0.04350	12.35400
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**34.012894**

Anion/Cation Balance (% difference) =	5.4%		
Total Anions+Cations =	2420	mg/l	(calculated)
Total Dissolved Solids =	2570	mg/l	(measured)
TDS/ion sum ratio =	1.06		
Electrical Cond =	3320	umh/cm	(measured)
TDS/EC ratio =	0.774		

Cation-Anion Balance Worksheet

Accession Number: 701147-03

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	316		
Chloride		0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1510	0.02082	31.43820
Carbonate		0.03333	0.00000
Bi-Carbonate	315	0.01639	5.16285
	Total Anions =		**36.60105**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	330	0.04990	16.46700
Potassium	10.9	0.02558	0.27882
Magnesium	28.2	0.08229	2.32058
Sodium	389	0.04350	16.92150
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**35.9879**

Anion/Cation Balance (% difference) =	0.8%		
Total Anions+Cations =	2458	mg/l	(calculated)
Total Dissolved Solids =	2550	mg/l	(measured)
TDS/ion sum ratio =	1.04		
Electrical Cond =	3480	umh/cm	(measured)
TDS/EC ratio =	0.733		

Cation-Anion Balance Worksheet

Accession Number: 701147-04

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	338		
Chloride		0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1270	0.02082	26.44140
Carbonate		0.03333	0.00000
Bi-Carbonate	337	0.01639	5.52343
	Total Anions =		**31.96483**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	251	0.04990	12.52490
Potassium	9.77	0.02558	0.24992
Magnesium	24.6	0.08229	2.02433
Sodium	357	0.04350	15.52950
Copper	0.008	0.03147	0.00025
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**30.3289024**

Anion/Cation Balance (% difference) =	2.6%		
Total Anions+Cations =	2115	mg/l	(calculated)
Total Dissolved Solids =	2250	mg/l	(measured)
TDS/ion sum ratio =	1.06		
Electrical Cond =	3160	umh/cm	(measured)
TDS/EC ratio =	0.712		

Cation-Anion Balance Worksheet

Accession Number: 701147-05

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	750		
Chloride		0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	580	0.02082	12.07560
Carbonate		0.03333	0.00000
Bi-Carbonate	748	0.01639	12.25972
	Total Anions =		**24.33532**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	152	0.04990	7.58480
Potassium	6.71	0.02558	0.17164
Magnesium	28.9	0.08229	2.37818
Sodium	329	0.04350	14.31150
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**24.4461228**

Anion/Cation Balance (% difference) =	0.2%		
Total Anions+Cations =	1547	mg/l	(calculated)
Total Dissolved Solids =	1710	mg/l	(measured)
TDS/ion sum ratio =	1.11		
Electrical Cond =	2620	umh/cm	(measured)
TDS/EC ratio =	0.653		

Cation-Anion Balance Worksheet

Accession Number: 701147-06

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	228		
Chloride	0	0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1540	0.02082	32.06280
Carbonate		0.03333	0.00000
Bi-Carbonate	228	0.01639	3.73692
	Total Anions =		**35.79972**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	328	0.04990	16.36720
Potassium	10.7	0.02558	0.27371
Magnesium	27.9	0.08229	2.29589
Sodium	351	0.04350	15.26850
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**34.205297**

Anion/Cation Balance (% difference) = 2.3%

Total Anions+Cations =	2394 mg/l	(calculated)
Total Dissolved Solids =	2590 mg/l	(measured)
TDS/ion sum ratio =	1.08	
Electrical Cond =	3280 umh/cm	(measured)
TDS/EC ratio =		

Cation-Anion Balance Worksheet

Accession Number: 701147-07

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	203		
Chloride	0	0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1370	0.02082	28.52340
Carbonate		0.03333	0.00000
Bi-Carbonate	202	0.01639	3.31078
	Total Anions =		**31.83418**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	344	0.04990	17.16560
Potassium	9.7	0.02558	0.24813
Magnesium	27.3	0.08229	2.24652
Sodium	253	0.04350	11.00550
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**30.665743**

Anion/Cation Balance (% difference) =	1.9%		
Total Anions+Cations =	2126	mg/l	(calculated)
Total Dissolved Solids =	2280	mg/l	(measured)
TDS/ion sum ratio =	1.07		
Electrical Cond =	2920	umh/cm	(measured)
TDS/EC ratio =	0.781		

Cation-Anion Balance Worksheet

Accession Number: 701147-08

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	215		
Chloride	0	0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1570	0.02082	32.68740
Carbonate		0.03333	0.00000
Bi-Carbonate	214	0.01639	3.50746
	Total Anions =		**36.19486**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	398	0.04990	19.86020
Potassium	9.53	0.02558	0.24378
Magnesium	30.6	0.08229	2.51807
Sodium	282	0.04350	12.26700
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**34.8890514**

Anion/Cation Balance (% difference) =	1.8%		
Total Anions+Cations =	2419	mg/l	(calculated)
Total Dissolved Solids =	2620	mg/l	(measured)
TDS/ion sum ratio =	1.08		
Electrical Cond =	3290	umh/cm	(measured)
TDS/EC ratio =	0.796		

Cation-Anion Balance Worksheet

Accession Number: 701147-09

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	619		
Chloride	0	0.02821	0.00000
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	926	0.02082	19.27932
Carbonate		0.03333	0.00000
Bi-Carbonate	618	0.01639	10.12902
	Total Anions =		**29.40834**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	182	0.04990	9.08180
Potassium	6.7	0.02558	0.17139
Magnesium	29.8	0.08229	2.45224
Sodium	402	0.04350	17.48700
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**29.192428**

Anion/Cation Balance (% difference) =	0.4%		
Total Anions+Cations =	1918	mg/l	(calculated)
Total Dissolved Solids =	2040	mg/l	(measured)
TDS/ion sum ratio =	1.06		
Electrical Cond =	2870	umh/cm	(measured)
TDS/EC ratio =	0.711		

Cation-Anion Balance Worksheet

Accession Number: 701147-10

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	786		
Chloride	85.6	0.02821	2.41478
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	460	0.02082	9.57720
Carbonate		0.03333	0.00000
Bi-Carbonate	785	0.01639	12.86615
	Total Anions =		**24.858126**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	135	0.04990	6.73650
Potassium	7.16	0.02558	0.18315
Magnesium	20.8	0.08229	1.71163
Sodium	370	0.04350	16.09500
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**24.7262848**

Anion/Cation Balance (% difference) =	0.3%		
Total Anions+Cations =	1550	mg/l	(calculated)
Total Dissolved Solids =	1650	mg/l	(measured)
TDS/ion sum ratio =	1.06		
Electrical Cond =	2600	umh/cm	(measured)
TDS/EC ratio =	0.635		

Cation-Anion Balance Worksheet

Accession Number: 701147-11

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	897		
Chloride	111	0.02821	3.13131
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	109	0.02082	2.26938
Carbonate		0.03333	0.00000
Bi-Carbonate	893	0.01639	14.63627
	Total Anions =		**20.03696**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	129	0.04990	6.43710
Potassium	4.56	0.02558	0.11664
Magnesium	15.4	0.08229	1.26727
Sodium	354	0.04350	15.39900
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**23.2200108**

Anion/Cation Balance (% difference) =	7.4%		
Total Anions+Cations =	1261	mg/l	(calculated)
Total Dissolved Solids =	1530	mg/l	(measured)
TDS/ion sum ratio =	1.21		
Electrical Cond =	2500	umh/cm	(measured)
TDS/EC ratio =	0.612		

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 1/25/07 Page: 1 of 1

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

(Add Cl, SO4 per Client see ATTACHED)

RR 1/30/07

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-Sb, As, Be, Cd, Cr, Ni, Cu, Pb, Se, Ag, Tl, Zn, Hg	Hardness, Ca, Mg, K, Na	TOC	Gen Chemistry:	Alkalinity + Bicarb/Carb/OH	TDS, EC	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (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
GBR-24D/701147-01	1/25/07	1010	GW	33014GW1					X			X	X						X							
GBR-30/701147-02		1045		33014GW2															X							
INFLUENT/701147-03		1055		33014GW3																						
EFFLUENT/701147-04		1125		33014GW4				X	X										X							
GRW-3/701147-05		1141		33014GW5															X							
GBR-31/701147-06		1220		33014GW6															X					←	BROKEN RJC	
GBR-52/701147-07		1302		33014GW7																						
GBR-51/701147-08		1325		33014GW8																						
GRW-6/701147-09		1353		33014GW9															X							
SHS-19/701147-10		1505		33014GW10			"																			
SHS-18/701147-11	↓	1510	↓	33014GW11					↓			↓	↓													

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:		RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #: 701147	Total Number of Containers	PENSACOLA - STL-FL		Signature: Time: Greg M. Sertera 1700	Signature: Time:
PROJ. NAME: LODE	Chain of Custody Seals	ESL - OR		Printed Name: Date: Greg M. Sertera 1/25/07	Printed Name: Date:
QC LEVEL: (STD) IV	Received Intact?	ATEL - AZ		Pinnacle Laboratories, Inc.	Company
QC REQUIRED: MS MSD BLANK	Received Good Cond./Cold	ATEL - MARION		RECEIVED BY: 1.	RECEIVED BY: 2.
TAT: (STANDARD) RUSH!!	LAB NUMBER:	ATEL - MELMORE		Signature: Time: Robert Carpenter 10100	Signature: Time:
		FCL	X	Printed Name: Date: 1.6 °C Robert Carpenter 1/26/07	Printed Name: Date:
DUE DATE: 2/9/07	COMMENTS:	EHL		Company FCL	Company
RUSH SURCHARGE: —		GEL			
CLIENT DISCOUNT: —		WCAS			
SPECIAL CERTIFICATION REQUIRED: YES (NO)		WOHL			

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 1/23/07 PAGE: 1 OF 2

PLI Accession #: 701147

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services

ADDRESS: 26 CR 3500
Flora Vista, NM

PHONE: 505 334 2791

FAX:

BILL TO: Bill Robertson

COMPANY: Giant

ADDRESS: 111 CR 4990
Bloomfield NM 87413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	Hardness, Ca, Mg, K, Na (M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	601/602	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: pH, SO4, Cl	Alkal, TDS, EC	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals: Sb, As, Be, Cd, Cr, Ni, Cu, Pb, Se, Ag, Tl, Zn, Hg	NUMBER OF CONTAINERS
GBR-24D	012307	1010	WG	01			X							X	X								X	X	X					6
GBR-30	012307	1045	WG	02			X							X	X								X	X	X					6
Influent	012307	1055	WG	03			X							X	X									X	X					5
effluent	012307	1125	WG	04			X							X	X								X	X	X				X	5
GRW-3	012307	1141	WG	05			X							X	X								X	X	X					5
GBR-31	012307	1220	WG	06			X							X	X								X	X	X					5
GBR-52	012307	1302	WG	07			X							X	X									X	X					5
GBR-51	012307	1325	WG	08			X							X	X									X	X					5
GRW-6	012307	1353	WG	09			X							X	X								X	X	X					5

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.: 30002

PROJ. NAME: Bloomfield Foamm Refinery

P.O. NO.:

SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS	55
CUSTODY SEALS	(Y) N/NA
RECEIVED INTACT	Yes
BLUE ICE/ICE	0.3 C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒

*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1430	Signature: Time:
Printed Name: MJNee Date: 1/24/07	Printed Name: Date:
Company: LSC	Company:
See Reverse side (Force Majeure)	
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 1106
Printed Name: Date:	Printed Name: Date: 1/25/07
Company:	Pinnacle Laboratories Inc.

July, 2003 PLI Inc.: Pinnacle Laboratories, Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413 • E-mail: PIN_LAB@ATT.NET

DISTRIBUTION: White - PLI, Canary - Originator

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 1/23/07 PAGE: 2 OF 2

PLI Accession #: 701147

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Martin Nee

COMPANY: Ladestar Services

ADDRESS: 26 CR 3500
Flora Vista NM 87415

PHONE: 505 334 2791

FAX:

BILL TO: Bill Robertson

COMPANY: Giant

ADDRESS: 111 CR 4990
Bloomfield NM 87413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	Diesel/Direct Inject (MOD.8015)	Gas/Purge & Trap (M8015) Hardness, Ca, Mg, K, Na	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	601/602	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: pH, SO4, Cl	Alk Cr, TDS, EC	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
SHS-19	012307	1505	WG	10			X							X	X									X	X						5
SHS-18	012307	1510	WG	11			X							X	X									X	X						5
Trip Blank	1/15/07	1530	AQ	12										X																	1

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.: 30002

PROJ. NAME: Former Refinery

P.O. NO.:

SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS	11
CUSTODY SEALS	Y / N / NA
RECEIVED INTACT	Y
BLUE ICE/ICE	0.3° C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time: 1430	Signature: Time:
Printed Name: M Nee Date: 1/24/07	Printed Name: Date:
Company: LSC	Company:
See Reverse side (Force Majeure)	
RECEIVED BY: 1	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 1106
Printed Name: Date:	Printed Name: Date: 1/25/07
Company:	Pinnacle Laboratories Inc.

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PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **704173**
May 22, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name BLOOMFIELD REFINERY
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 04/24/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

EPA Methods 8021 and 150.1 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All other analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 704173
PROJECT #	: (NONE)	DATE RECEIVED	: 04/24/2007
PROJECT NAME	: BLOOMFIELD REFINERY	REPORT DATE	: 05/22/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
704173 - 01	INFLUENT	AQUEOUS	04/20/2007
704173 - 02	EFFLUENT	AQUEOUS	04/20/2007
704173 - 03	20042007TB01	AQUEOUS	04/20/2007

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 704173
PROJECT #	: (NONE)	DATE RECEIVED	: 04/24/2007
PROJECT NAME	: BLOOMFIELD REFINERY	ANALYST	: DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	INFLUENT	AQUEOUS	04/20/2007	04/24/2007
02	EFFLUENT	AQUEOUS	04/20/2007	04/24/2007

PARAMETER	INFLUENT	EFFLUENT
PH (150.1)	7.3	7.2
TEMPERATURE (°C)	20.4	19.8

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 704173
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	DATE ANALYZED	: 04/24/2007

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	704173-01	7.25	7.23	0
TEMPERATURE (°C)		20.4	20.1	

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021B
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : BLOOMFIELD REFINERY

PINNACLE I.D. : 704173
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	INFLUENT	AQUEOUS	04/20/2007	NA	05/03/2007	1
02	EFFLUENT	AQUEOUS	04/20/2007	NA	05/03/2007	1
03	20042007TB01	AQUEOUS	04/20/2007	NA	05/03/2007	1

PARAMETER	DET. LIMIT	UNITS	INFLUENT	EFFLUENT	20042007TB01
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	2.0	UG/L	< 2.0	< 2.0	< 2.0
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5
SURROGATE:					
BROMOFLUOROBENZENE (%)			99	99	101
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021B	PINNACLE I.D.	: 704173
BLANK I. D.	: 050307B	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 05/03/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	ANALYST	: DRK

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
SURROGATE:		
BROMOFLUOROBENZENE (%)		99
SURROGATE LIMITS:	(80 - 120)	

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
LCS/LCSD

TEST	: EPA 8021B	PINNACLE I.D.	: 704173
BATCH ID	: 050307B	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 05/03/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	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	18.9	95	18.4	92	3	(80 - 120)	20
TOLUENE	<0.5	20.0	17.8	89	17.4	87	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	19.8	99	2	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	55.7	93	55.3	92	1	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\%\ \text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 8021B	PINNACLE I.D.	: 704173
SAMPLE ID	: 704171-05	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 05/03/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	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	18.5	92	18.4	92	0	(80 - 120)	20
TOLUENE	<0.5	20.0	17.4	87	17.3	87	0	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.9	100	19.4	97	3	(80 - 120)	20
TOTAL XYLENES	<2.0	60.0	55.9	93	54.0	90	3	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407-339-5984 Fax 407-260-6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772-343-8006 Fax 772-343-8089
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Report Summary

Date Received: Apr 25, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
39092WW1	Influent/704173-01				Waste Water
39092WW2	Effluent/704173-02				Waste Water

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
8253 South U.S. Highway 1, Port St. Lucie FL 34952-2860 Phone 772 - 343 - 8006 Fax 772 - 343 - 8089
P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Analysis Report

Lab #: 39092WW1 Sampled: 04/20/07 10:15 AM Desc: Influent/704173-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sulfate	1390	mg/L	30.0	150	300	10082866	EPA375.2	14808-79-8	04/27/07
TDS	2370	mg/L	1.00	2.50	5.00	10082911	SM2540C	10-33-3	04/26/07
Chloride	77.0 I	mg/L	10.0	50.0	100	10082978	SM4500CIE	16887-00-6	04/27/07
Bicarbonate Alkalinity	421	mg/L	1.00	0.100	0.200	10083062	SM2320B	E1640226	04/26/07
Carbonate Alkalinity	1.59	mg/L	1.00	0.100	0.200	10083062	SM2320B	3812-32-6	04/26/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.200	10083062	SM2320B		04/26/07
Total Alkalinity CaCO3	422	mg/L	1.00	0.100	0.200	10083062	SM2320B	T-005	04/26/07
Specific_Conductance	3780	umhos/cm	1.00	1.00	2.00	10083098	EPA120.1	10-34-4	04/27/07
Calcium	226	mg/L	1.00	0.100	0.200	10083283	EPA200.7	7440-70-2	05/03/07
Magnesium	22.9	mg/L	1.00	0.0100	0.0200	10083283	EPA200.7	7439-95-4	05/03/07
Potassium	7.43	mg/L	1.00	0.100	0.200	10083283	EPA200.7	7440-09-7	05/03/07
Sodium	350	mg/L	1.00	0.500	1.00	10083283	EPA200.7	7440-23-5	05/03/07
Total Hardness (as CaCO3)	658	mg/L	1.00	0.100	0.200	10083284	SM2340B	40-11-9	05/03/07

Lab #: 39092WW2 Sampled: 04/20/07 10:15 AM Desc: Effluent/704173-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sulfate	1360	mg/L	20.0	100	200	10082866	EPA375.2	14808-79-8	04/27/07
TDS	2360	mg/L	1.00	2.50	5.00	10082911	SM2540C	10-33-3	04/26/07
Chloride	77.9 I	mg/L	10.0	50.0	100	10082978	SM4500CIE	16887-00-6	04/27/07
Bicarbonate Alkalinity	409	mg/L	1.00	0.100	0.200	10083062	SM2320B	E1640226	04/26/07
Carbonate Alkalinity	1.61	mg/L	1.00	0.100	0.200	10083062	SM2320B	3812-32-6	04/26/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.200	10083062	SM2320B		04/26/07
Total Alkalinity CaCO3	410	mg/L	1.00	0.100	0.200	10083062	SM2320B	T-005	04/26/07
Specific_Conductance	3400	umhos/cm	1.00	1.00	2.00	10083098	EPA120.1	10-34-4	04/27/07
Calcium	229	mg/L	1.00	0.100	0.200	10083283	EPA200.7	7440-70-2	05/03/07
Magnesium	23.4	mg/L	1.00	0.0100	0.0200	10083283	EPA200.7	7439-95-4	05/03/07
Potassium	7.94	mg/L	1.00	0.100	0.200	10083283	EPA200.7	7440-09-7	05/03/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Lab #: 39092WW2 Sampled: 04/20/07 10:15 AM Desc: Effluent/704173-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Sodium	356	mg/L	1.00	0.500	1.00	10083283	EPA200.7	7440-23-5	05/03/07
Total Hardness (as CaCO3)	669	mg/L	1.00	0.100	0.200	10083284	SM2340B	40-11-9	05/03/07

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2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Quality Report

Quality Control Batch: 100829111	Analyst: RMV				
Blank	**Result**	**Units**			
TDS	2.50U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
TDS	1480	mg/L	1500	98.53	55.54-137.56

Quality Control Batch: 100829781	Analyst:				
Blank	**Result**	**Units**			
Chloride	5.00U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Chloride	54.2	mg/L	50.0	108.48	58.27-138.07

Quality Control Batch: 100830821	Analyst: LCC				
Blank	**Result**	**Units**			
Total Alkalinity CaCO3	0.100U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Total Alkalinity CaCO3	96.6	mg/L	100	96.62	50.93-142.91

Quality Control Batch: 100832831	Analyst: EVB	
Blank	**Result**	**Units**
Calcium	0.100U	mg/L

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Quality Control Batch: 100883283 **Analyst: EVB**

Blank	Result	Units
Magnesium	0.0100U	mg/L
Potassium	0.100U	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Calcium	9.10	mg/L	10.0	91.05	48.98-140.78
Magnesium	9.93	mg/L	10.0	99.34	50.20-139.78
Potassium	9.84	mg/L	10.0	98.38	50.21-139.79
Sodium	10.6	mg/L	10.0	105.97	49.67-140.27

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Calcium	44.3	mg/L	5.00	102.95	50.44-149.74	39.1
Magnesium	14.0	mg/L	5.00	106.08	50.60-149.00	8.70
Potassium	15.9	mg/L	5.00	133.88	50.54-149.12	9.25
Sodium	36.1	mg/L	5.00	118.40	50.31-149.07	30.2

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Calcium	43.4	mg/L	5.00	85.67	50.44-149.74	39.1	1.97	19.22
Magnesium	13.0	mg/L	5.00	86.68	50.60-149.00	8.70	7.18	19.69
Potassium	14.5	mg/L	5.00	104.12	50.54-149.12	9.25	9.78	19.70
Sodium	34.6	mg/L	5.00	88.73	50.31-149.07	30.2	4.20	19.73

Quality Control Batch: 100883284 **Analyst: EVB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	33.7	mg/L	33.1	101.82	62.28-133.26

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 704173
Client Project #: LODE
Date Sampled: Apr 20, 2007
May 7, 2007; Invoice: 39092

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 4/24/07 Page: 1 of 1

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Total Ca, Mg, K, Na	TOC	Gen Chemistry: TDS, Cl, SO4	Alkalinity + Bicarb Carb OH	Conductivity, Hardness	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (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
Influent/704173-01	4/20/07	1015	WW	39092WW1						X		X	X	X													
Effluent/704173-02	"	1036	"	39092WW2						X		X	X	X													

PROJECT INFORMATION	SAMPLE RECEIPT	SAMPLES SENT TO:		RELINQUISED BY: 1.	RELINQUISED BY: 2.
PROJECT #: 704173	Total Number of Containers	PENSACOLA - STL-FL		Signature: Francine Tanio FED	Signature:
PROJ. NAME: LODE	Chain of Custody Seals	ESL - OR		Printed Name: Francine Tanio Date: 4/24/07	Printed Name: Date:
QC LEVEL: (STD) IV	Received Intact?	ATEL - AZ		Pinnacle Laboratories, Inc.	Company
QC REQUIRED: (MS) MSD BLANK	Received Good Cond./Cold	ATEL - MARION		RECEIVED BY: 1.	RECEIVED BY: 2.
TAT: (STANDARD) RUSH!!	LAB NUMBER:	ATEL - MELMORE		Signature: Time:	Signature: Time: 9:00
		FCL	X	Printed Name: Date:	Printed Name: Jim Myers Date: 4/25/07
DUE DATE: 5/9	COMMENTS:	EHL		Company	Company FCL
RUSH SURCHARGE: —		GEL			
CLIENT DISCOUNT: —		WCAS			
SPECIAL CERTIFICATION REQUIRED: YES (NO)	3.5°C	WOHL			

Cation-Anion Balance Worksheet

Accession Number: 704173-01

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	422		
Chloride	77	0.02821	2.17217
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1390	0.02082	28.93980
Carbonate	1.59	0.03333	0.05299
Bi-Carbonate	421	0.01639	6.90019
	Total Anions =		**38.0651547**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	226	0.04990	11.27740
Potassium	7.43	0.02558	0.19006
Magnesium	22.9	0.08229	1.88444
Sodium	350	0.04350	15.22500
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**28.5769004**

Anion/Cation Balance (% difference) = 14.2%

Total Anions+Cations =	2327 mg/l	(calculated)
Total Dissolved Solids =	2370 mg/l	(measured)
TDS/ion sum ratio =	1.02	
Electrical Cond =	3780 umh/cm	(measured)
TDS/EC ratio =	0.627	

Cation-Anion Balance Worksheet

Accession Number: 704173-02

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	410		
Chloride	77.9	0.02821	2.19756
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1360	0.02082	28.31520
Carbonate	1.61	0.03333	0.05366
Bi-Carbonate	409	0.01639	6.70351
	Total Anions =		**37.2699303**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	229	0.04990	11.42710
Potassium	7.94	0.02558	0.20311
Magnesium	23.4	0.08229	1.92559
Sodium	356	0.04350	15.48600
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**29.0417912**

Anion/Cation Balance (% difference) = 12.4%

Total Anions+Cations =	2300	mg/l	(calculated)
Total Dissolved Solids =	2360	mg/l	(measured)
TDS/ion sum ratio =	1.03		
Electrical Cond =	3400	umh/cm	(measured)
TDS/EC ratio =	0.694		

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 042007 PAGE: 1 OF 1 4/24/07

PLI Accession #: 704173

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services
ADDRESS: PO Box 4465
Durango, CO 81302
PHONE: 505-334-2791
FAX:

BILL TO: Bill Robertson
COMPANY: Giant Industries Az, Inc.
ADDRESS: 111 CR 4990
Bloomfield, NM 87413

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
Influent	042007	1015	WG	01
Effluent	042007	1036	WG	02
20042007TB01	042007	0700	WG	03

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: Alk, TDS, EC, Cl, SO4, pH	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals: Ca, Mg, K, Na Hardness	NUMBER OF CONTAINERS
				✓														✓	✓			✓	✓	3
				✓														✓	✓			✓	✓	3
				✓																				1

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: Bloomfield Refinery
P.O. NO.:
SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS	11
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	Y/S
BLUE ICE/ICE	2.2c

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: Ashley L. Ager Time: 1130
Printed Name: Ashley L. Ager Date: 04 30th 07
Company: Lodestar Services
See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.

Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2

Signature: Time: 1233
Printed Name: Date: 4/24/07
Pinnacle Laboratories Inc.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **707116**
August 08, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name BLOOMFIELD REFINERY
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 04/24/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

The samples were originally submitted in April, 2007 for BTEX analysis. The samples were reanalyzed (past hold-time) at the request of the client for EPA 601/602. The original report was issued on May 22, 2007.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 707116
PROJECT #	: (NONE)	DATE RECEIVED	: 04/24/2007
PROJECT NAME	: BLOOMFIELD REFINERY	REPORT DATE	: 08/08/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
707116 - 01	INFLUENT	AQUEOUS	04/20/2007
707116 - 02	EFFLUENT	AQUEOUS	04/20/2007
707116 - 03	20042007TB01	AQUEOUS	04/20/2007

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : BLOOMFIELD REFINERY

PINNACLE I.D. : 707116
ANALYST : DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR	
01	INFLUENT	AQUEOUS	04/20/2007	NA	**07/31/2007**	1	**H1**
02	EFFLUENT	AQUEOUS	04/20/2007	NA	**07/31/2007**	1	**H1**
03	20042007TB01	AQUEOUS	04/20/2007	NA	**07/31/2007**	1	**H1**

PARAMETER	DET. LIMIT	UNITS	INFLUENT	EFFLUENT	20042007TB01	P/E
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	P
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	P
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
TRICHLOROFLUOROMETHANE	0.8	UG/L	< 0.8	< 0.8	< 0.8	E
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	E
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3	E
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	E
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
BROMOFORM	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
SURROGATE:						
BROMOCHLOROMETHANE (%)			84	98	96	
SURROGATE LIMITS	(71 - 126)					
TRIFLUOROTOLUENE (%)			91	98	95	
SURROGATE LIMITS	(72 - 130)					

CHEMIST NOTES:
H1 = Sample was run past the 14 day hold time.

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 601/602	PINNACLE I.D.	: 707116
BLANK I.D.	: 073107C	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 07/31/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	ANALYST	: STH/DRK

PARAMETER	UNITS	
METHYL -t-BUTYL ETHER	UG/L	<2.5
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
CHLOROMETHANE	UG/L	<1.0
VINYL CHLORIDE	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CHLOROETHANE	UG/L	<0.5
TRICHLOROFLUOROMETHANE	UG/L	<0.8
1,1-DICHLOROETHENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0
1,1-DICHLOROETHANE	UG/L	<0.3
CHLOROFORM	UG/L	<0.5
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
1,2-DICHLOROPROPANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
BROMODICHLOROMETHANE	UG/L	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2
1,1,2-TRICHLOROETHANE	UG/L	<0.2
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
CHLOROBENZENE	UG/L	<0.5
BROMOFORM	UG/L	<0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,2-DICHLOROBENZENE	UG/L	<0.5

SURROGATE:		
BROMOCHLOROMETHANE (%)		94
SURROGATE LIMITS	(71 - 126)	
TRIFLUOROTOLUENE (%)		96
SURROGATE LIMITS	(72 - 130)	

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 601/602	PINNACLE I.D.	: 707116
SAMPLE ID	: 707116-02	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 07/31/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: BLOOMFIELD REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
METHYL -t-BUTYL ETHER	<2.5	5.0	5.35	107	5.62	112	5	(70 - 130)	20
BENZENE	<0.5	5.0	4.93	99	4.97	99	1	(39 - 150)	20
TOLUENE	<0.5	5.0	5.20	104	4.99	100	4	(46 - 148)	20
ETHYLBENZENE	<0.5	5.0	4.77	95	4.83	97	1	(32 - 160)	20
TOTAL XYLENES	<2.0	15	14.9	99	15.3	102	3	(80 - 120)	20
CHLOROMETHANE	<1.0	20	26.4	132	27.2	136	3	(D - 193)	20
VINYL CHLORIDE	<0.5	20	23.6	118	21.9	110	7	(28 - 163)	20
BROMOMETHANE	<1.0	20	22.2	111	20.2	101	10	(D - 144)	20
CHLOROETHANE	<0.5	20	22.3	112	19.4	97	14	(46 - 137)	20
TRICHLOROFLUOROMETHANE	<0.8	20	21.7	108	18.7	93	15	(21 - 156)	20
1,1-DICHLOROETHENE	<0.2	5.0	6.15	123	5.15	103	18	(28 - 167)	20
METHYLENE CHLORIDE	<2.0	5.0	6.01	120	5.15	103	15	(25 - 162)	20
TRANS-1,2-DICHLOROETHENE	<1.0	5.0	5.18	104	5.11	102	1	(38 - 155)	20
1,1-DICHLOROETHANE	<0.3	5.0	5.86	117	5.58	112	5	(47 - 132)	20
CHLOROFORM	<0.5	5.0	2.27	45	2.18	44	4	(49 - 133)	20
1,2-DICHLOROETHANE (EDC)	<0.5	5.0	5.61	112	5.44	109	3	(51 - 147)	20
1,1,1-TRICHLOROETHANE	<1.0	5.0	5.31	106	5.08	102	4	(41 - 138)	20
CARBON TETRACHLORIDE	<0.2	5.0	5.66	113	5.25	105	7	(43 - 143)	20
1,2-DICHLOROPROPANE	<0.2	5.0	6.06	121	5.71	114	6	(44 - 156)	20
TRICHLOROETHENE	<0.3	5.0	4.82	96	4.51	90	7	(35 - 146)	20
BROMODICHLOROMETHANE	<0.2	5.0	5.26	105	4.80	96	9	(42 - 172)	20
CIS-1,3-DICHLOROPROPENE	<0.2	5.0	4.85	97	4.58	92	6	(22 - 178)	20
TRANS-1,3-DICHLOROPROPENE	<0.2	5.0	5.16	103	4.88	98	6	(22 - 178)	20
1,1,2-TRICHLOROETHANE	<0.2	5.0	5.42	108	4.91	98	10	(39 - 136)	20
DIBROMOCHLOROMETHANE	<0.2	5.0	6.33	127	5.76	115	10	(24 - 191)	20
1,2-DIBROMOETHANE (EDB)	<0.5	5.0	7.12	**142**	6.34	**127**	12	(80 - 120)	20
TETRACHLOROETHENE	<0.5	5.0	5.47	109	4.94	99	10	(26 - 162)	20
CHLOROBENZENE	<0.5	5.0	5.00	100	4.61	92	8	(38 - 150)	20
BROMOFORM	<0.5	5.0	5.31	106	4.63	93	14	(13 - 159)	20
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0	1.45	29	1.35	27	7	(8 - 184)	20
1,3-DICHLOROBENZENE	<0.5	5.0	4.83	97	4.99	100	3	(7 - 187)	20
1,4-DICHLOROBENZENE	<0.5	5.0	3.17	63	3.35	67	6	(42 - 143)	20
1,2-DICHLOROBENZENE	<0.5	5.0	1.86	37	1.98	40	6	(D - 208)	20

CHEMIST NOTES:
EDB was recovered high in the LCS (122%) and LCSD (142%) but was not detected in the associated samples.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 042007 PAGE: 3 OF 3 4/24/07

PLI Accession #: ~~707173~~ 707116

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services
ADDRESS: PO Box 4465
Durango, CO 81302
PHONE: 505-334-2791
FAX:

BILL TO: Bill Robertson
COMPANY: Giant Industries Az, Inc
ADDRESS: 111 CR 4990
Bloomfield, NM 87413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	601/602	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	~~8021 (BTEX)~~ ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	~~General Chemistry:~~ Alk, TDS, EC	Cl, SO4, pH	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals: Ca, Mg, K, Na	Hardness	NUMBER OF CONTAINERS
Influent	042007	1015	WG	01			X			✓															✓	✓					✓	✓	5
Effluent	042007	1036	WG	02			X			✓															✓	✓					✓	✓	5
200420007TB01	042007	0700	WG	03			X			✓																							1

All previously reported. [initials] 7/16/07

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: Bloomfield Refinery
P.O. NO.:
SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS	11
CUSTODY SEALS	Y (N) NA
RECEIVED INTACT	NLS
BLUE ICE/ICE	2.2°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:
per client request please re-analyze samples for 601/602. previously only 8021 BTEX was requested. [initials] 7/17/07

RELINQUISHED BY: 1.
Signature: Ashley L. Ager Time: 1130
Printed Name: Ashley L. Ager Date: 042007 4/24/07
Company: Lodestar Services
See Reverse side (Force Majeure)

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 1233
Printed Name: [signature] Date: 4/24/07
Pinnacle Laboratories Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **707159**
August 09, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name FORMER REFINERY
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 07/25/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

EPA Methods 601/602 and 150.1 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All other analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 707159
PROJECT #	: (NONE)	DATE RECEIVED	: 07/25/2007
PROJECT NAME	: FORMER REFINERY	REPORT DATE	: 08/09/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
707159 - 01	INFLUENT	AQUEOUS	07/23/2007
707159 - 02	EFFLUENT	AQUEOUS	07/23/2007
707159 - 03	TRIP BLANK	AQUEOUS	07/16/2007

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 707159
PROJECT #	: (NONE)	DATE RECEIVED	: 07/25/07
PROJECT NAME	: FORMER REFINERY	ANALYST	: ARM

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	INFLUENT	AQUEOUS	07/23/07	07/26/07
02	EFFLUENT	AQUEOUS	07/23/07	07/26/07

PARAMETER	INFLUENT	EFFLUENT
PH (150.1)	7.7	7.6
TEMPERATURE (°C)	20.6	20.8

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 707159
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: FORMER REFINERY	DATE ANALYZED	: 07/26/07

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	707159-01	7.68	7.71	0
TEMPERATURE (°C)		20.6	20.4	

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 601/602
CLIENT : LODESTAR
PROJECT # : (NONE)
PROJECT NAME : FORMER REFINERY

PINNACLE I.D. : 707159
ANALYST : STH/DRK

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR	
01	INFLUENT	AQUEOUS	07/23/2007	NA	07/31/2007	1	
02	EFFLUENT	AQUEOUS	07/23/2007	NA	07/31/2007	1	
03	TRIP BLANK	AQUEOUS	07/16/2007	NA	**07/31/2007**	1	**H1**

PARAMETER	DET. LIMIT	UNITS	INFLUENT	EFFLUENT	TRIP BLANK	P/E
METHYL -t-BUTYL ETHER	2.5	UG/L	< 2.5	< 2.5	< 2.5	P
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	P
TOTAL XYLENES	2.0	UG/L	< 2.0	< 2.0	< 2.0	P
CHLOROMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
VINYL CHLORIDE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
BROMOMETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
CHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
TRICHLOROFLUOROMETHANE	0.8	UG/L	< 0.8	< 0.8	< 0.8	E
1,1-DICHLOROETHENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
METHYLENE CHLORIDE	2.0	UG/L	< 2.0	< 2.0	< 2.0	E
TRANS-1,2-DICHLOROETHENE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
1,1-DICHLOROETHANE	0.3	UG/L	< 0.3	< 0.3	< 0.3	E
CHLOROFORM	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,2-DICHLOROETHANE (EDC)	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,1,1-TRICHLOROETHANE	1.0	UG/L	< 1.0	< 1.0	< 1.0	E
CARBON TETRACHLORIDE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,2-DICHLOROPROPANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
TRICHLOROETHENE	0.3	UG/L	< 0.3	< 0.3	< 0.3	E
BROMODICHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
CIS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
TRANS-1,3-DICHLOROPROPENE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,1,2-TRICHLOROETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
DIBROMOCHLOROMETHANE	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,2-DIBROMOETHANE (EDB)	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
TETRACHLOROETHENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
CHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
BROMOFORM	0.2	UG/L	< 0.2	< 0.2	< 0.2	E
1,1,2,2-TETRACHLOROETHANE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,3-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,4-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
1,2-DICHLOROBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5	E
SURROGATE:						
BROMOCHLOROMETHANE (%)			104	87	101	
SURROGATE LIMITS	(71 - 126)					
TRIFLUOROTOLUENE (%)			94	94	106	
SURROGATE LIMITS	(72 - 130)					

CHEMIST NOTES:
H1 = Trip Blank was run past the 14 day hold time.

PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 601/602	PINNACLE I.D.	: 707159
BLANK I.D.	: 073107C	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 07/31/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: FORMER REFINERY	ANALYST	: STH/DRK

PARAMETER	UNITS	
METHYL -t-BUTYL ETHER	UG/L	<2.5
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<2.0
CHLOROMETHANE	UG/L	<1.0
VINYL CHLORIDE	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CHLOROETHANE	UG/L	<0.5
TRICHLOROFLUOROMETHANE	UG/L	<0.8
1,1-DICHLOROETHENE	UG/L	<0.2
METHYLENE CHLORIDE	UG/L	<2.0
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0
1,1-DICHLOROETHANE	UG/L	<0.3
CHLOROFORM	UG/L	<0.5
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
1,2-DICHLOROPROPANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.3
BROMODICHLOROMETHANE	UG/L	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2
1,1,2-TRICHLOROETHANE	UG/L	<0.2
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.5
TETRACHLOROETHENE	UG/L	<0.5
CHLOROBENZENE	UG/L	<0.5
BROMOFORM	UG/L	<0.5
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,2-DICHLOROBENZENE	UG/L	<0.5

SURROGATE:		
BROMOCHLOROMETHANE (%)		94
SURROGATE LIMITS	(71 - 126)	
TRIFLUOROTOLUENE (%)		96
SURROGATE LIMITS	(72 - 130)	

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GAS CHROMATOGRAPHY QUALITY CONTROL
MS/MSD

TEST	: EPA 601/602	PINNACLE I.D.	: 707159
SAMPLE ID	: 707116-02	DATE EXTRACTED	: NA
CLIENT	: LODESTAR	DATE ANALYZED	: 07/31/2007
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: FORMER REFINERY	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
METHYL -t-BUTYL ETHER	<2.5	5.0	5.35	107	5.62	112	5	(70 - 130)	20
BENZENE	<0.5	5.0	4.93	99	4.97	99	1	(39 - 150)	20
TOLUENE	<0.5	5.0	5.20	104	4.99	100	4	(46 - 148)	20
ETHYLBENZENE	<0.5	5.0	4.77	95	4.83	97	1	(32 - 160)	20
TOTAL XYLENES	<2.0	15	14.9	99	15.3	102	3	(80 - 120)	20
CHLOROMETHANE	<1.0	20	26.4	132	27.2	136	3	(D - 193)	20
VINYL CHLORIDE	<0.5	20	23.6	118	21.9	110	7	(28 - 163)	20
BROMOMETHANE	<1.0	20	22.2	111	20.2	101	10	(D - 144)	20
CHLOROETHANE	<0.5	20	22.3	112	19.4	97	14	(46 - 137)	20
TRICHLOROFLUOROMETHANE	<0.8	20	21.7	108	18.7	93	15	(21 - 156)	20
1,1-DICHLOROETHENE	<0.2	5.0	6.15	123	5.15	103	18	(28 - 167)	20
METHYLENE CHLORIDE	<2.0	5.0	6.01	120	5.15	103	15	(25 - 162)	20
TRANS-1,2-DICHLOROETHENE	<1.0	5.0	5.18	104	5.11	102	1	(38 - 155)	20
1,1-DICHLOROETHANE	<0.3	5.0	5.86	117	5.58	112	5	(47 - 132)	20
CHLOROFORM	<0.5	5.0	2.27	45	2.18	44	4	(49 - 133)	20
1,2-DICHLOROETHANE (EDC)	<0.5	5.0	5.61	112	5.44	109	3	(51 - 147)	20
1,1,1-TRICHLOROETHANE	<1.0	5.0	5.31	106	5.08	102	4	(41 - 138)	20
CARBON TETRACHLORIDE	<0.2	5.0	5.66	113	5.25	105	7	(43 - 143)	20
1,2-DICHLOROPROPANE	<0.2	5.0	6.06	121	5.71	114	6	(44 - 156)	20
TRICHLOROETHENE	<0.3	5.0	4.82	96	4.51	90	7	(35 - 146)	20
BROMODICHLOROMETHANE	<0.2	5.0	5.26	105	4.80	96	9	(42 - 172)	20
CIS-1,3-DICHLOROPROPENE	<0.2	5.0	4.85	97	4.58	92	6	(22 - 178)	20
TRANS-1,3-DICHLOROPROPENE	<0.2	5.0	5.16	103	4.88	98	6	(22 - 178)	20
1,1,2-TRICHLOROETHANE	<0.2	5.0	5.42	108	4.91	98	10	(39 - 136)	20
DIBROMOCHLOROMETHANE	<0.2	5.0	6.33	127	5.76	115	10	(24 - 191)	20
1,2-DIBROMOETHANE (EDB)	<0.5	5.0	7.12	**142**	6.34	**127**	12	(80 - 120)	20
TETRACHLOROETHENE	<0.5	5.0	5.47	109	4.94	99	10	(26 - 162)	20
CHLOROBENZENE	<0.5	5.0	5.00	100	4.61	92	8	(38 - 150)	20
BROMOFORM	<0.5	5.0	5.31	106	4.63	93	14	(13 - 159)	20
1,1,2,2-TETRACHLOROETHANE	<0.5	5.0	1.45	29	1.35	27	7	(8 - 184)	20
1,3-DICHLOROBENZENE	<0.5	5.0	4.83	97	4.99	100	3	(7 - 187)	20
1,4-DICHLOROBENZENE	<0.5	5.0	3.17	63	3.35	67	6	(42 - 143)	20
1,2-DICHLOROBENZENE	<0.5	5.0	1.86	37	1.98	40	6	(D - 208)	20

CHEMIST NOTES:
EDB was recovered high in the LCS (122%) and LCSD (142%) but was not detected in the associated samples.

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

2709-D Pan American Fwy, NE Albuquerque, NM 87107 505.344.3777 505.344.4413 FAX 877.PIN.1998 TOLL FREE
www.pinnaclelabs.org www.pinnaclelabsonline.com

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
Aug 1, 2007; Invoice: 45000

Report Summary

Date Received: Jul 26, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
45000WW1	Inf/707159-01	EPA120.1	LCC	Main Lab	Waste Water
		EPA200.7	EVB	Main Lab	
		EPA375.2	JGK	Main Lab	
		SM2320B	LCC	Main Lab	
		SM2340B	EVB	Main Lab	
		SM2540C	RMV	Main Lab	
		SM4500ClE	JGK	Main Lab	
45000WW2	Eff/707159-02	EPA120.1	LCC	Main Lab	Waste Water
		EPA200.7	EVB	Main Lab	
		EPA375.2	JGK	Main Lab	
		SM2320B	LCC	Main Lab	
		SM2340B	EVB	Main Lab	
		SM2540C	RMV	Main Lab	
		SM4500ClE	JGK	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

ACCREDITED IN ACCORDANCE WITH nelac

Jefferson S. Flowers, Ph.D.
President/Technical Director

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
Aug 1, 2007; Invoice: 45000

Analysis Report

Lab #: 45000WW1 Sampled: 07/23/07 10:50 AM Desc: Inf/707159-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	79.0 I	mg/L	10.0	50.0	100	10087535	SM4500CIE	16887-00-6	07/17/07
TDS	2320	mg/L	1.00	2.50	5.00	10087555	SM2540C	10-33-3	07/27/07
Specific_Conductance	3220	umhos/cm	1.00	1.00	2.00	10087579	EPA120.1	10-34-4	07/27/07
Bicarbonate Alkalinity	510	mg/L	1.00	0.100	0.200	10087626	SM2320B	E1640226	07/30/07
Carbonate CaCO3	1.89	mg/L	1.00	0.100	0.200	10087626	SM2320B		07/30/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.200	10087626	SM2320B		07/30/07
Total Alkalinity CaCO3	512	mg/L	1.00	0.100	0.200	10087626	SM2320B	T-005	07/30/07
Calcium	245	mg/L	1.00	0.100	0.200	10087750	EPA200.7	7440-70-2	07/31/07
Magnesium	24.6	mg/L	1.00	0.0100	0.0200	10087750	EPA200.7	7439-95-4	07/31/07
Potassium	12.4	mg/L	1.00	0.100	0.200	10087750	EPA200.7	7440-09-7	07/31/07
Sodium	400	mg/L	1.00	0.500	1.00	10087750	EPA200.7	7440-23-5	07/31/07
Total Hardness (as CaCO3)	642	mg/L	1.00	0.100	0.200	10087751	SM2340B	40-11-9	07/31/07
Sulfate	1070 L	mg/L	10.0	50.0	100	10087779	EPA375.2	14808-79-8	08/01/07

Lab #: 45000WW2 Sampled: 07/23/07 10:35 AM Desc: Eff/707159-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloride	78.9 I	mg/L	10.0	50.0	100	10087535	SM4500CIE	16887-00-6	07/17/07
TDS	2320	mg/L	1.00	2.50	5.00	10087555	SM2540C	10-33-3	07/27/07
Specific_Conductance	3330	umhos/cm	1.00	1.00	2.00	10087579	EPA120.1	10-34-4	07/27/07
Bicarbonate Alkalinity	478	mg/L	1.00	0.100	0.200	10087626	SM2320B	E1640226	07/30/07
Carbonate CaCO3	1.79	mg/L	1.00	0.100	0.200	10087626	SM2320B		07/30/07
Hydroxide CaCO3	0.100 U	mg/L	1.00	0.100	0.200	10087626	SM2320B		07/30/07
Total Alkalinity CaCO3	480	mg/L	1.00	0.100	0.200	10087626	SM2320B	T-005	07/30/07
Calcium	234	mg/L	1.00	0.100	0.200	10087750	EPA200.7	7440-70-2	07/31/07
Magnesium	25.0	mg/L	1.00	0.0100	0.0200	10087750	EPA200.7	7439-95-4	07/31/07
Potassium	11.9	mg/L	1.00	0.100	0.200	10087750	EPA200.7	7440-09-7	07/31/07
Sodium	399	mg/L	1.00	0.500	1.00	10087750	EPA200.7	7440-23-5	07/31/07

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
Aug 1, 2007; Invoice: 45000

Lab #: 45000WW2 **Sampled:** 07/23/07 10:35 AM **Desc:** Eff/707159-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Hardness (as CaCO3)	618	mg/L	1.00	0.100	0.200	10087751	SM2340B	40-11-9	07/31/07
Sulfate	1000	mg/L	100	500	1000	10087780	EPA375.2	14808-79-8	08/01/07

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PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
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Quality Report

Quality Control Batch: 10087535	Analyst: JGK							
Blank	**Result**	**Units**						
Chloride	5.00U	mg/L						
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**			
Chloride	19.5	mg/L	20.0	97.40	83.20-118.75			
Matrix Spike	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**		
Chloride	54.0	mg/L	50.0	103.79	76.36-123.06	2.14		
Matrix Spike Duplicate	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**	**Sample**	**RPD**	**RPD Lim**
Chloride	54.7	mg/L	50.0	105.11	76.36-123.06	2.14	1.21	6.55

Quality Control Batch: 10087555	Analyst: RMV				
Blank	**Result**	**Units**			
TDS	2.50U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
TDS	1430	mg/L	1500	95.47	86.98-109.42

Quality Control Batch: 10087626	Analyst: LCC				
Blank	**Result**	**Units**			
Total Alkalinity CaCO3	0.100U	mg/L			
Laboratory Control Sample	**Result**	**Units**	**Spike**	**%REC**	**%REC Lim**
Total Alkalinity CaCO3	97.6	mg/L	100	97.57	74.65-123.77

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PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
Aug 1, 2007; Invoice: 45000

Quality Control Batch: 10087750 **Analyst: EVB**

Blank	Result	Units
Calcium	0.100U	mg/L
Magnesium	0.0100U	mg/L
Potassium	0.100U	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Calcium	8.55	mg/L	10.0	85.53	78.97-114.70
Magnesium	8.60	mg/L	10.0	86.02	85.74-116.82
Potassium	10.4	mg/L	10.0	104.01	82.40-115.28
Sodium	8.72	mg/L	10.0	87.18	77.47-114.43

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Calcium	54.1	mg/L	10.0	88.86	27.68-167.72	45.2
Magnesium	13.6	mg/L	10.0	85.45	53.84-157.37	5.02
Potassium	14.2	mg/L	10.0	67.67	27.38-162.00	7.46
Sodium	23.8	mg/L	10.0	75.25	37.32-161.89	16.2

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Calcium	59.7	mg/L	10.0	145.19	27.68-167.72	45.2	9.91	26.07
Magnesium	19.4	mg/L	10.0	143.47	53.84-157.37	5.02	35.24	31.28
Potassium	19.9	mg/L	10.0	124.90	27.38-162.00	7.46	33.49	34.44
Sodium	29.4	mg/L	10.0	131.41	37.32-161.89	16.2	21.14	20.02

Quality Control Batch: 10087751 **Analyst: EVB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	56.8	mg/L	66.2	85.84	84.12-114.36

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Date Sampled: Jul 23, 2007
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Quality Control Batch: 10087780 **Analyst: JGK**

Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	61.9	mg/L	60.0	103.17	91.94-106.64

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	85.8	mg/L	50.0	92.80	51.32-145.17	39.4

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	86.7	mg/L	50.0	94.60	51.32-145.17	39.4	1.04	7.31

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 707159
Client Project #: GI
Date Sampled: Jul 23, 2007
Aug 1, 2007; Invoice: 45000

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc. **Interlab Chain of Custody** Date: 7/25/07 Page: 1 of 1

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Total Ca, Mg, K, Na	TOC	Gen Chemistry: TDS, Cl, SO4	Alk + Bicarb / Carb / OH	Conductivity, Hardness	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (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
Influent/707159-01	7/23/07	1050	WW	45000ww1						X		X	X	X														
Effluent/707159-02	7/23/07	1035	"	45000ww2						X		X	X	X														

PROJECT INFORMATION	
PROJECT #:	707159
PROJ. NAME:	GI
QC LEVEL:	(STD) IV
(QC REQUIRED:)	MS MSD BLANK
TAT:	(STANDARD) RUSH!!
DUE DATE:	8/8
RUSH SURCHARGE:	—
CLIENT DISCOUNT:	—
SPECIAL CERTIFICATION REQUIRED:	YES (NO)

SAMPLE RECEIPT	
Total Number of Containers	
Chain of Custody Seals	
Received Intact?	
Received Good Cond./Cold	
LAB NUMBER:	

COMMENTS: 1.8 °C

SAMPLES SENT TO:	
PENSACOLA - STL-FL	
ESL - OR	
ATEL - AZ	
ATEL - MARION	
ATEL - MELMORE	
FCL	X
EHL	
GEL	
WCAS	
WOHL	

RELINQUISED BY: 1.
Signature: Francine Tenorio Time: 1700
Printed Name: Francine Tenorio Date: 7/25/07
Pinnacle Laboratories, Inc.

RELINQUISED BY: 2.
Signature: Time:
Printed Name: Date:
Company

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company

RECEIVED BY: 2.
Signature: [signature] Time: 1001
Printed Name: [signature] Date: 7/26/07
Company: FCL

PINNACLE LABORATORIES

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 7/24/07 PAGE 1 OF 1

PLI Accession #: 707159

SHADED AREAS ARE FOR LAB USE ONLY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services
ADDRESS: 26 CR 3500
Flora Vista NM 87415
PHONE: 505 334 2791
FAX:
BILL TO: Bill Robertson
COMPANY: Giant Ind AZ
ADDRESS: 111 CR 4990
Bloomfield NM 87413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject		(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics — pH Alk+Bicarb/Carb/OH	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: TDS, EC, Cl, SO4	601/602	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals: Ca, Mg, K, Na, Hardness		NUMBER OF CONTAINERS
Influent	72307	1050	WG	01												X								X	X							5
Effluent	72307	1035	WG	02												X								X	X							5
Trip Blank	7/16/07	1350	AQ	03																					X							1

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: Former Refinery
P.O. NO.:
SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS	11
CUSTODY SEALS	(Y) N / NA
RECEIVED INTACT	YES
BLUE ICE/ICE	2°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☑
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:
cooler

RELINQUISHED BY: 1.
Signature: [signature] Time: 1630
Printed Name: M Nee Date: 7/24/07
Company: Lodestar
See Reverse Side (Force Majeure)

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 1026
Printed Name: Francine Tanno Date: 7/25/07
Pinnacle Laboratories Inc.

PLEASE FILL THIS FORM IN COMPLETELY.

Cation-Anion Balance Worksheet

Accession Number: 707159-01

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	512		
Chloride	79	0.02821	2.22859
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1070	0.02082	22.27740
Carbonate	1.89	0.03333	0.06299
Bi-Carbonate	510	0.01639	8.35890
	Total Anions =		**32.9278837**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	245	0.04990	12.22550
Potassium	12.4	0.02558	0.31719
Magnesium	24.6	0.08229	2.02433
Sodium	400	0.04350	17.40000
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**31.967026**

Anion/Cation Balance (% difference) =	1.5%	
Total Anions+Cations =	2138 mg/l	(calculated)
Total Dissolved Solids =	2320 mg/l	(measured)
TDS/ion sum ratio =	1.09	
Electrical Cond =	3220 umh/cm	(measured)
TDS/EC ratio =	0.720	

Cation-Anion Balance Worksheet

Accession Number: 707159-02

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	480		
Chloride	78.9	0.02821	2.22577
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	1000	0.02082	20.82000
Carbonate	1.79	0.03333	0.05966
Bi-Carbonate	478	0.01639	7.83442
	Total Anions =		**30.9398497**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	234	0.04990	11.67660
Potassium	11.9	0.02558	0.30440
Magnesium	25	0.08229	2.05725
Sodium	399	0.04350	17.35650
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**31.394752**

Anion/Cation Balance (% difference) =	0.7%		
Total Anions+Cations =	2037	mg/l	(calculated)
Total Dissolved Solids =	2320	mg/l	(measured)
TDS/ion sum ratio =	1.14		
Electrical Cond =	3330	umh/cm	(measured)
TDS/EC ratio =	0.697		

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **710230**
November 14, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name GBR
Project Number (NONE)

Attention: MARTIN NEE/BILL ROBERTSON

On 10/19/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

EPA Methods601/602 and 150.1 analyses were performed by Pinnacle Laboratories, Inc. (PLI).

All remaining analyses were performed by Flowers Chemical Laboratories, Inc. (FCL), Altamonte Springs, FL.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

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PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 710230
PROJECT #	: (NONE)	DATE RECEIVED	: 10/19/2007
PROJECT NAME	: GBR	REPORT DATE	: 11/14/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
710230 - 01	GBR INFLUENT	AQUEOUS	10/18/2007
710230 - 02	GBR EFFLUENT	AQUEOUS	10/18/2007
710230 - 03	TRIP BLANK	AQUEOUS	10/10/2007

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY RESULTS

CLIENT	: LODESTAR	PINNACLE I.D.	: 710230
PROJECT #	: (NONE)	DATE RECEIVED	: 10/19/2007
PROJECT NAME	: GBR	ANALYST	: STH

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE ANALYZED
01	GBR INFLUENT	AQUEOUS	10/18/2007	10/31/2007
02	GBR EFFLUENT	AQUEOUS	10/18/2007	10/31/2007

PARAMETER	GBR INFLUENT	GBR EFFLUENT
PH (150.1)	7.4	8.0
TEMPERATURE (°C)	13.7	15.7

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT	: LODESTAR	PINNACLE I.D.	: 710230
PROJECT #	: (NONE)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: GBR	DATE ANALYZED	: 10/31/2007

PARAMETER	PINNACLE I.D.	SAMPLE RESULT	DUP. RESULT	% RPD
PH (150.1)	710230-01	7.38	7.40	0
TEMPERATURE (°C)		13.7	14.2	

CHEMIST NOTES:
N/A

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 by 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	710230
PROJECT #	: (NONE)	DATE RECEIVED :	10/19/2007
PROJECT NAME	: GBR	ANALYST :	STH

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
710230-01	GBR INFLUENT	AQUEOUS	10/18/2007	10/31/2007	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	99
	(76 - 114)
Toluene-d8	90
	(88 - 110)
Bromofluorobenzene	94
	(86 - 115)

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 by 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	710230
PROJECT #	: (NONE)	DATE RECEIVED :	10/19/2007
PROJECT NAME	: GBR	ANALYST :	STH

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
710230-02	GBR EFFLUENT	AQUEOUS	10/18/2007	10/31/2007	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	104 (76 - 114)
Toluene-d8	98 (88 - 110)
Bromofluorobenzene	99 (86 - 115)

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 by 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	710230
PROJECT #	: (NONE)	DATE RECEIVED :	10/19/2007
PROJECT NAME	: GBR	ANALYST :	STH

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
710230-03	TRIP BLANK	AQUEOUS	10/10/2007	**10/31/07 -H1**	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	97
	(76 - 114)
Toluene-d8	93
	(88 - 110)
Bromofluorobenzene	94
	(86 - 115)

H1 = Trip Blank was run past the 14 day hold time.

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 by 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	710230
PROJECT #	: (NONE)		
PROJECT NAME	: GBR	ANALYST :	STH

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
REAGENT BLANK	103107A	AQUEOUS	N/A	10/31/2007	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (76 - 114)
Toluene-d8	99 (88 - 110)
Bromofluorobenzene	99 (86 - 115)

PINNACLE LABS
Environmental Testing

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

TEST	: EPA 601/602 by 624	PINNACLE I.D.	: 710230
SPIKED SAMPLE	: 710230-02	DATE ANALYZED	: 10/31/2007
CLIENT	: LODESTAR	UNITS	: ug/L (PPB)
PROJECT #	: (NONE)	INSTRUMENT	: GC/MS#2
PROJECT NAME	: GBR	ANALYST	: STH

COMPOUND	SAMPLE CONC.	SPIKE ADDED	MS RESULT	MSD RESULT	MS %REC	MSD %REC	RPD	QC LIMITS RPD	QC LIMITS %RECOVERY
Chloromethane	<5.0	20.0	16.9	16.7	84	84	1	20	D-273
Vinyl Chloride	<5.0	20.0	18.3	19.1	92	95	4	20	D-251
Bromomethane	<5.0	20.0	20.6	20.9	103	104	1	20	D-242
Chloroethane	<5.0	20.0	18.3	18.8	91	94	3	20	14-230
Trichlorofluoromethane	<5.0	20.0	19.4	18.6	97	93	4	20	17-181
1,1-Dichloroethene	<1.0	20.0	17.9	17.9	90	89	0	14	D-234
Methylene Chloride	<1.0	20.0	17.5	18.4	88	92	5	20	D-221
trans-1,2-Dichloroethene	<1.0	20.0	18.9	19.1	94	96	1	20	54-156
1,1-Dichloroethane	<1.0	20.0	17.6	18.0	88	90	2	20	59-155
cis-1,2-Dichloroethene	<1.0	20.0	18.3	18.2	92	91	1	20	54-156
Chloroform	<1.0	20.0	17.5	18.6	87	93	6	20	51-138
1,1,1-Trichloroethane	<1.0	20.0	19.0	19.3	95	97	2	20	52-162
Carbon Tetrachloride	<1.0	20.0	18.3	19.2	91	96	5	20	70-140
Benzene	<1.0	20.0	19.3	19.3	96	97	0	11	37-151
1,2-Dichloroethane	<1.0	20.0	19.1	19.1	95	96	0	20	49-155
Trichloroethene	<1.0	20.0	17.7	17.9	89	90	1	14	71-157
1,2-Dichloropropane	<1.0	20.0	18.4	18.7	92	93	1	20	D-210
Bromodichloromethane	<1.0	20.0	17.2	18.6	86	93	8	20	35-155
2-Chloroethyl Vinyl Ether	<10	20.0	0.0	0.0	0	0	0	20	D - 305
cis-1,3-Dichloropropene	<1.0	20.0	18.3	18.6	92	93	1	20	D-227
Toluene	<1.0	20.0	20.1	20.1	100	101	0	13	47-150
trans-1,3-Dichloropropene	<1.0	20.0	17.8	18.2	89	91	2	20	17-183
1,1,2-Trichloroethane	<1.0	20.0	19.2	19.0	96	95	1	20	52-150
Tetrachloroethene	<1.0	20.0	12.3	12.7	62	64	4	20	64-148
Dibromochloromethane	<1.0	20.0	17.3	17.7	87	88	2	20	53-149
Chlorobenzene	<1.0	20.0	18.7	19.2	93	96	3	13	37-160
Ethylbenzene	<1.0	20.0	18.3	19.1	91	96	5	20	37-162
Bromoform	<1.0	20.0	19.7	20.2	98	101	3	20	45-169
1,1,2,2-Tetrachloroethane	<2.0	20.0	20.5	20.7	103	104	1	20	46-157
1,3-Dichlorobenzene	<1.0	20.0	18.7	19.1	94	95	2	20	59-156
1,4-Dichlorobenzene	<1.0	20.0	17.8	18.6	89	93	5	20	18-190
1,2-Dichlorobenzene	<1.0	20.0	17.9	18.7	90	93	4	20	18-190

Chemist Note: 2-Chloroethyl Vinyl Ether was not found due to sample preservation at pH<2.

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FLOWERS CHEMICAL LABORATORIES INC.

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Report Summary

Date Received: Oct 22, 2007

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	SampleMatrix
51154WW1	GBR Inf/710230-01	EPA120.1	LCC	Main Lab	Waste Water
		EPA200.7	EVB	Main Lab	
		EPA375.2	PCW	Main Lab	
		SM2320B	CCP	Main Lab	
		SM2340B	EVB	Main Lab	
		SM2540C	RMV	Main Lab	
		SM4500CIE	VLB	Main Lab	
51154WW2	GBR Eff/710230-02	EPA120.1	LCC	Main Lab	Waste Water
		EPA200.7	EVB	Main Lab	
		EPA375.2	PCW	Main Lab	
		SM2320B	CCP	Main Lab	
		SM2340B	EVB	Main Lab	
		SM2540C	RMV	Main Lab	
		SM4500CIE	VLB	Main Lab	

Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.

ACCREDITED IN ACCORDANCE WITH nela

Jefferson S. Flowers, Ph.D.
President/Technical Director

FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs FL 32715-0597 Phone 407 - 339 - 5984 Fax 407 - 260 - 6110 www.flowerslabs.com
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P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Analysis Report

Lab #: 51154WW1 Sampled: 10/18/07 12:56 PMDesc: GBR Inf/710230-01

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	192	mg/L	1.00	0.100	0.200	10091783	EPA200.7	7440-70-2	10/22/07
Magnesium	28.6	mg/L	1.00	0.0100	0.0200	10091783	EPA200.7	7439-95-4	10/22/07
Potassium	2.60	mg/L	1.00	0.100	0.200	10091783	EPA200.7	7440-09-7	10/22/07
Sodium	439	mg/L	1.00	0.500	1.00	10091783	EPA200.7	7440-23-5	10/22/07
Total Hardness (as CaCO3)	537	mg/L	1.00	0.100	0.200	10091803	SM2340B	40-11-9	10/22/07
TDS	1960	mg/L	1.00	2.50	5.00	10091975	SM2540C	10-33-3	10/23/07
Specific_Conductance	3130	umhos/cm	1.00	1.00	2.00	10092133	EPA120.1	10-34-4	10/26/07
Chloride	93.2	mg/L	5.00	25.0	50.0	10092183	SM4500CIE	16887-00-6	10/27/07
Sulfate	566 I	mg/L	60.0	300	600	10092383	EPA375.2	14808-79-8	10/30/07
Bicarbonate Alkalinity	650	mg/L	1.00	0.100	0.200	10092463	SM2320B	E1640226	10/29/07
Carbonate CaCO3	2.07	mg/L	1.00	0.100	0.200	10092463	SM2320B		10/29/07
Total Alkalinity CaCO3	652	mg/L	1.00	0.100	0.200	10092463	SM2320B	T-005	10/29/07

Lab #: 51154WW2 Sampled: 10/18/07 01:07 PMDesc: GBR Eff/710230-02

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Calcium	195	mg/L	1.00	0.100	0.200	10091783	EPA200.7	7440-70-2	10/22/07
Magnesium	29.5	mg/L	1.00	0.0100	0.0200	10091783	EPA200.7	7439-95-4	10/22/07
Potassium	2.62	mg/L	1.00	0.100	0.200	10091783	EPA200.7	7440-09-7	10/22/07
Sodium	452	mg/L	1.00	0.500	1.00	10091783	EPA200.7	7440-23-5	10/22/07
Total Hardness (as CaCO3)	548	mg/L	1.00	0.100	0.200	10091803	SM2340B	40-11-9	10/22/07
TDS	2000	mg/L	1.00	2.50	5.00	10091975	SM2540C	10-33-3	10/23/07
Specific_Conductance	2940	umhos/cm	1.00	1.00	2.00	10092133	EPA120.1	10-34-4	10/26/07
Chloride	91.1	mg/L	5.00	25.0	50.0	10092183	SM4500CIE	16887-00-6	10/27/07
Sulfate	549 I	mg/L	60.0	300	600	10092383	EPA375.2	14808-79-8	10/30/07
Bicarbonate Alkalinity	654	mg/L	1.00	0.100	0.200	10092463	SM2320B	E1640226	10/29/07
Carbonate CaCO3	2.09	mg/L	1.00	0.100	0.200	10092463	SM2320B		10/29/07
Total Alkalinity CaCO3	656	mg/L	1.00	0.100	0.200	10092463	SM2320B	T-005	10/29/07

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P.O. Box 1200, Madison FL 32341 Phone 850-973-6878 Fax 850-973-6878

Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Quality Report

Quality Control Batch: 10091783 **Analyst: EVB**

Blank	Result	Units
Calcium	0.100U	mg/L
Magnesium	0.0100U	mg/L
Potassium	0.100U	mg/L
Sodium	0.500U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Calcium	4.77	mg/L	5.00	95.34	78.97-114.70
Magnesium	4.94	mg/L	5.00	98.73	85.74-116.82
Potassium	4.49	mg/L	5.00	89.82	82.40-115.28
Sodium	4.62	mg/L	5.00	92.44	77.47-114.43

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Calcium	55.5	mg/L	5.00	112.86	27.68-167.72	49.9
Magnesium	15.3	mg/L	5.00	109.04	53.84-157.37	9.86
Potassium	13.1	mg/L	5.00	89.85	27.38-162.00	8.63
Sodium	34.2	mg/L	5.00	72.58	37.32-161.89	30.6

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Calcium	54.1	mg/L	5.00	85.41	27.68-167.72	49.9	2.50	26.07
Magnesium	14.7	mg/L	5.00	96.59	53.84-157.37	9.86	4.15	31.28
Potassium	13.0	mg/L	5.00	87.68	27.38-162.00	8.63	0.83	34.44
Sodium	34.9	mg/L	5.00	86.11	37.32-161.89	30.6	1.96	20.02

Quality Control Batch: 10091803 **Analyst: EVB**

Blank	Result	Units
Total Hardness (as CaCO3)	0.100U	mg/L

FLOWERS CHEMICAL LABORATORIES INC.

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Albuquerque,NM 87107

PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Hardness (as CaCO3)	30.4	mg/L	33.1	92.02	82.68-113.41

Quality Control Batch: 100091975 **Analyst: RMV**

Blank	Result	Units
TDS	2.50U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1470	mg/L	1500	98.13	80.62-116.79

Quality Control Batch: 100092183 **Analyst: VLB**

Blank	Result	Units
Chloride	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Chloride	52.0	mg/L	50.0	104.04	83.20-118.75

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Chloride	50.5	mg/L	50.0	100.96	76.36-123.06	1500U

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chloride	49.1	mg/L	50.0	98.16	76.36-123.06	1500U	2.81	6.55

Quality Control Batch: 100092383 **Analyst: PCW**

Blank	Result	Units
Sulfate	5.00U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim

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PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Quality Control Batch: 10092383 **Analyst: PCW**

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Sulfate	55.7	mg/L	60.0	92.83	91.94-106.64

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample
Sulfate	61.7	mg/L	50.0	88.80	51.32-145.17	17.3

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Sulfate	62.9	mg/L	50.0	91.20	51.32-145.17	17.3	1.93	7.31

Quality Control Batch: 10092463 **Analyst: CCP**

Blank	Result	Units
Total Alkalinity CaCO3	0.100U	mg/L

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
Total Alkalinity CaCO3	104	mg/L	100	103.99	81.90-118.30

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Pinnacle Laboratories
2709 D Pan American Freeway NE
Albuquerque,NM 87107

PO #: 710230
Client Project #: LODE
Date Sampled: Oct 18, 2007
Nov 2, 2007; Invoice: 51154

Narrative Report

Sample Handling
Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted. Sample results reported as dissolved were field filtered.

Quality Control
Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

Attachments
Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	One or more QC samples associated with this data value exceeded QC limits.
J1	Surrogate recovery limits have been exceeded.
J2	No known quality control criteria exist for the component.
J3	Reported value failed to meet established quality control criteria for either precision or accuracy.
J4	Sample matrix interfered with the ability to make an accurate determination on the spiked sample.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
ZTNTC	Too numerous to count. Numeric value represents filtration volume.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 10/19/07 Page: 1 of 1

Network Project Manager: Jacinta Tenorio

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, NM 87107
(505) 344-3777 Fax (505) 344-4413

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	TCLP RCRA (8) Metals	Metals-13 PP List	Metals-TAL (23 Metals)	Dissolved Fe, Mn, Pb (6010)	Total Ca, Mg, K, Na	TOC	Gen Chemistry: TDS, EC, Cl, SO4	Alk+Bcarb|Carb, Hardness	Volatile Organics GC/MS (8260)	BOD	COD	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8260 (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
GBR Influent/710230-01	10/18/07	1256	WW	51154						X		X	X														
GBR Effluent/ ↓ -02	"	1307	"	51154						X		X	X														

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT #: 710230		Total Number of Containers		PENSACOLA - STL-FL	
PROJ. NAME: LODE		Chain of Custody Seals		ESL - OR	
QC LEVEL: (STD.) IV		Received Intact?		ATEL - AZ	
QC REQUIRED: MS MSD BLANK		Received Good Cond./Cold		ATEL - MARION	
TAT: (STANDARD) RUSH!!		LAB NUMBER:		ATEL - MELMORE	
				FCL	X
DUE DATE: 11/2	COMMENTS:			EHL	
RUSH SURCHARGE: —				GEL	
CLIENT DISCOUNT: —				WCAS	
SPECIAL CERTIFICATION REQUIRED: YES (NO)	4.3°C			WOHL	

RELINQUISED BY: 1.	RELINQUISED BY: 2.
Signature: Suncine Tenorio Time: 1700	Signature: Time:
Printed Name: Suncine Tenorio Date: 10/19/07	Printed Name: Date:
Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2.**
Signature: Time:	Signature: Time: 12:30
Printed Name: Date:	Printed Name: Jane Flavors Date: 10/22/07
Company	Company

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 10/18/07 PAGE: 1 OF 1

PLI Accession #: 710730

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar

ADDRESS: 2C CR 3500
Flora Vista 87415

PHONE: 505 320 9675

FAX:

BILL TO: Bill Robertson

COMPANY: Giant

ADDRESS: 111 CR 4990
Bloomfield, NM 87413

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry: Alk, Cl, TDS, EC, cations, Hardness, Cl, SO4	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals: Ca, Mg, K, Na	pH	NUMBER OF CONTAINERS
GBR Influent	10/18/07	1256	Water	01			X	602/602															X				X	X	5
GBR Effluent	10/18/07	1307	Water	02			X																X				X	X	5
Trip	~~10/18/07~~	~~0700~~	Water	03																									1
	10/10/07	1400																											
	10/19/07																												

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.:

PROJ. NAME: GBK

P.O. NO.:

SHIPPED VIA: UPS

SAMPLE RECEIPT

NO CONTAINERS:	14
CUSTODY SEALS:	Y (N) NA
RECEIVED INTACT:	(Y) N
BLUE ICE/ICE:	ICE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:

RELINQUISHED BY: 1.

Signature: Time: 1600

Printed Name: MNee Date: 10/18/07

Company: Lodestar

See Reverse side (Force Majeure)

RECEIVED BY: 1.

Signature: Time:

Printed Name: Date:

Company:

RELINQUISHED BY: 2.

Signature: Time:

Printed Name: Date:

Company:

RECEIVED BY: (LAB) 2.

Signature: Time: 1208

Printed Name: Date: 10/19/07

Pinnacle Laboratories Inc.

Cation-Anion Balance Worksheet

Accession Number: 710230-01

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	652		
Chloride	93.2	0.02821	2.62917
Fluoride		0.05264	0.00000
Nitrate as N	0	0.01613	0.00000
Sulfate	566	0.02082	11.78412
Carbonate	2.07	0.03333	0.06899
Bi-Carbonate	652	0.01639	10.68628
	Total Anions =		**25.16857**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	192	0.04990	9.58080
Potassium	2.6	0.02558	0.06651
Magnesium	28.6	0.08229	2.35349
Sodium	439	0.04350	19.09650
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**31.0973**

Anion/Cation Balance (% difference) =	10.5%	
Total Anions+Cations =	1713 mg/l	(calculated)
Total Dissolved Solids =	1960 mg/l	(measured)
TDS/ion sum ratio =	1.14	
Electrical Cond =	3130 umh/cm	(measured)
TDS/EC ratio =	0.626	

Cation-Anion Balance Worksheet

Accession Number: 710230-02

Anions	Result (mg/l)	Factor	Total (me/l)
Alkalinity	656		
Chloride	91.1	0.02821	2.56993
Fluoride		0.05264	0.00000
Nitrate as N		0.01613	0.00000
Sulfate	549	0.02082	11.43018
Carbonate	2.09	0.03333	0.06966
Bi-Carbonate	654	0.01639	10.71906
	Total Anions =		**24.78883**

Cations	Result (mg/l)	Factor	Total (me/l)
Calcium	195	0.04990	9.73050
Potassium	2.62	0.02558	0.06702
Magnesium	29.5	0.08229	2.42756
Sodium	452	0.04350	19.66200
Copper		0.03147	0.00000
Iron		0.05372	0.00000
Manganese		0.03640	0.00000
Zinc		0.03059	0.00000
	Total Cations =		**31.88707**

Anion/Cation Balance (% difference) = 12.5%

Total Anions+Cations =	1713 mg/l	(calculated)
Total Dissolved Solids =	2000 mg/l	(measured)
TDS/ion sum ratio =	1.17	
Electrical Cond =	2940 umh/cm	(measured)
TDS/EC ratio =	0.680	

PINNACLE LABS
Environmental Testing

Pinnacle Lab ID number **711084**
December 05, 2007

LODESTAR
26 CR 3500
FLORA VISTA, NM 87415

Project Name FORMER REF.
Project Number 30002

Attention: MARTIN NEE/BILL ROBERTSON

On 11/13/2007 Pinnacle Laboratories Inc., (ADHS License No. AZ0643), 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.

EPA Method 601/602 could not be analyzed due to instrument difficulties. EPA Method 624 was substituted at no additional cost.

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, Pinnacle Laboratories, Inc.

MR: jt

Enclosure

PINNACLE LABS
Environmental Testing

CLIENT	: LODESTAR	PINNACLE ID	: 711084
PROJECT #	: 30002	DATE RECEIVED	: 11/13/2007
PROJECT NAME	: FORMER REF.	REPORT DATE	: 12/05/2007

PINNACLE ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
711084 - 01	SHS-19	AQUEOUS	11/12/2007
711084 - 02	SHS-18	AQUEOUS	11/12/2007
711084 - 03	SHS-9	AQUEOUS	11/12/2007

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 BY 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	711084
PROJECT #	: 030002	DATE RECEIVED :	11/13/07
PROJECT NAME	: FORMER REF.	ANALYST :	ARM

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
711084-01	SHS-19	AQUEOUS	11/12/07	11/19/07	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	100 (76 - 114)
Toluene-d8	98 (88 - 110)
Bromofluorobenzene	95 (86 - 115)

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 BY 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	711084
PROJECT #	: 030002	DATE RECEIVED :	11/13/07
PROJECT NAME	: FORMER REF.	ANALYST :	ARM

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
711084-02	SHS-18	AQUEOUS	11/12/07	11/20/07	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	104 (76 - 114)
Toluene-d8	96 (88 - 110)
Bromofluorobenzene	90 (86 - 115)

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 BY 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	711084
PROJECT #	: 030002	DATE RECEIVED :	11/13/07
PROJECT NAME	: FORMER REF.	ANALYST :	ARM

SAMPLE ID #	CLIENT ID	MATRIX	DATE SAMPLED	DATE ANALYZED	DIL. FACTOR
711084-03	SHS-9	AQUEOUS	11/12/07	11/19/07	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	106 (76 - 114)
Toluene-d8	101 (88 - 110)
Bromofluorobenzene	95 (86 - 115)

PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 BY 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	711084
PROJECT #	: 030002		
PROJECT NAME	: FORMER REF.	ANALYST :	ARM

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
METHOD BLANK	111907EW	AQUEOUS	N/A	11/19/07	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	105 (76 - 114)
Toluene-d8	104 (88 - 110)
Bromofluorobenzene	101 (86 - 115)

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PINNACLE LABS
Environmental Testing

GC/MS RESULTS

TEST	: EPA 601/602 BY 624		
CLIENT	: LODESTAR	PINNACLE I.D. :	711084
PROJECT #	: 030002		
PROJECT NAME	: FORMER REF.	ANALYST :	ARM

SAMPLE ID #	BATCH	MATRIX	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
METHOD BLANK	112007EW	AQUEOUS	N/A	11/20/07	1

PARAMETER	DET. LIMIT		UNITS
Chloromethane	5.0	< 5.0	ug/L
Vinyl Chloride	5.0	< 5.0	ug/L
Bromomethane	5.0	< 5.0	ug/L
Chloroethane	5.0	< 5.0	ug/L
Trichlorofluoromethane	5.0	< 5.0	ug/L
1,1-Dichloroethene	1.0	< 1.0	ug/L
Methylene Chloride	1.0	< 1.0	ug/L
trans-1,2-Dichloroethene	1.0	< 1.0	ug/L
1,1-Dichloroethane	1.0	< 1.0	ug/L
cis-1,2-Dichloroethene	1.0	< 1.0	ug/L
Chloroform	1.0	< 1.0	ug/L
1,1,1-Trichloroethane	1.0	< 1.0	ug/L
Carbon Tetrachloride	1.0	< 1.0	ug/L
Benzene	1.0	< 1.0	ug/L
1,2-Dichloroethane	1.0	< 1.0	ug/L
Trichloroethene	1.0	< 1.0	ug/L
1,2-Dichloropropane	1.0	< 1.0	ug/L
Bromodichloromethane	1.0	< 1.0	ug/L
2-Chloroethyl Vinyl Ether	10	< 10	ug/L
cis-1,3-Dichloropropene	1.0	< 1.0	ug/L
Toluene	1.0	< 1.0	ug/L
trans-1,3-Dichloropropene	1.0	< 1.0	ug/L
1,1,2-Trichloroethane	1.0	< 1.0	ug/L
Tetrachloroethene	1.0	< 1.0	ug/L
Dibromochloromethane	1.0	< 1.0	ug/L
Chlorobenzene	1.0	< 1.0	ug/L
Ethylbenzene	1.0	< 1.0	ug/L
Bromoform	1.0	< 1.0	ug/L
1,1,2,2-Tetrachloroethane	2.0	< 2.0	ug/L
1,3-Dichlorobenzene	1.0	< 1.0	ug/L
1,4-Dichlorobenzene	1.0	< 1.0	ug/L
1,2-Dichlorobenzene	1.0	< 1.0	ug/L
Total Xylenes	3.0	< 3.0	ug/L

SURROGATE % RECOVERY	
1,2-Dichloroethane-d4	107
	(76 - 114)
Toluene-d8	106
	(88 - 110)
Bromofluorobenzene	102
	(86 - 115)

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PINNACLE LABS
Environmental Testing

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

TEST	: EPA 601/602 BY 624	PINNACLE I.D.	: 711084
SPIKED SAMPLE	: 711084-01	DATE ANALYZED	: 11/19/07
CLIENT	: LODESTAR	UNITS	: ug/L (PPB)
PROJECT #	: 30002	INSTRUMENT	: GCMS-1
PROJECT NAME	: FORMER REF.	ANALYST	: ARM

COMPOUND	SAMPLE CONC.	SPIKE ADDED	MS RESULT	MSD RESULT	MS %REC	MSD %REC	RPD	QC LIMITS RPD	QC LIMITS %RECOVERY
Chloromethane	<5.0	40.0	44.4	44.1	111	110	1	20	D-273
Vinyl Chloride	<5.0	40.0	44.9	45.4	112	113	1	20	D-251
Bromomethane	<5.0	40.0	46.9	45.8	117	115	2	20	D-242
Chloroethane	<5.0	40.0	44.8	44.2	112	110	1	20	14-230
Trichlorofluoromethane	<5.0	40.0	45.5	45.9	114	115	1	20	17-181
1,1-Dichloroethene	<1.0	40.0	42.1	41.5	105	104	1	14	D-234
Methylene Chloride	<1.0	40.0	42.3	41.9	106	105	1	20	D-221
trans-1,2-Dichloroethene	<1.0	40.0	43.2	41.8	108	104	3	20	54-156
1,1-Dichloroethane	<1.0	40.0	43.0	42.5	108	106	1	20	59-155
cis-1,2-Dichloroethene	<1.0	40.0	43.2	43.2	108	108	0	20	54-156
Chloroform	<1.0	40.0	41.5	41.2	104	103	1	20	51-138
1,1,1-Trichloroethane	<1.0	40.0	41.4	40.8	104	102	2	20	52-162
Carbon Tetrachloride	<1.0	40.0	41.1	41.7	103	104	1	20	70-140
Benzene	<1.0	40.0	41.7	42.0	104	105	1	11	37-151
1,2-Dichloroethane	<1.0	40.0	40.5	40.6	101	102	0	20	49-155
Trichloroethene	<1.0	40.0	40.5	42.1	101	105	4	14	71-157
1,2-Dichloropropane	<1.0	40.0	41.1	42.8	103	107	4	20	D-210
Bromodichloromethane	<1.0	40.0	41.6	43.0	104	108	3	20	35-155
2-Chloroethyl Vinyl Ether	<10	40.0	0.0	0.0	0	0	0	20	D - 305
cis-1,3-Dichloropropene	<1.0	40.0	41.2	43.1	103	108	4	20	D-227
Toluene	<1.0	40.0	41.0	42.5	103	106	4	13	47-150
trans-1,3-Dichloropropene	<1.0	40.0	40.9	43.1	102	108	5	20	17-183
1,1,2-Trichloroethane	<1.0	40.0	41.4	43.9	103	110	6	20	52-150
Tetrachloroethene	<1.0	40.0	28.8	29.2	72	73	2	20	64-148
Dibromochloromethane	<1.0	40.0	40.1	40.2	100	100	0	20	53-149
Chlorobenzene	<1.0	40.0	40.0	40.7	100	102	2	13	37-160
Ethylbenzene	<1.0	40.0	40.2	41.1	101	103	2	20	37-162
Bromoform	<1.0	40.0	39.0	39.2	98	98	1	20	45-169
1,1,2,2-Tetrachloroethane	<2.0	40.0	44.5	44.0	111	110	1	20	46-157
1,3-Dichlorobenzene	<1.0	40.0	40.3	41.5	101	104	3	20	59-156
1,4-Dichlorobenzene	<1.0	40.0	39.6	40.3	99	101	2	20	18-190
1,2-Dichlorobenzene	<1.0	40.0	40.9	41.4	102	104	1	20	18-190

Chemist Note: 2-Chloroethyl Vinyl Ether was not found due to sample preservation at pH<2.

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SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 11/12/07 PAGE: 1 OF 1

PLI Accession #: 711084

PROJECT MANAGER: Martin Nee

COMPANY: Lodestar Services
ADDRESS: 26 CR3500
Flora Vista NM 87415
PHONE: 505 320 9675
FAX:
BILL TO: Mr Bill Robertson
COMPANY: Western Refining (Giant)
ADDRESS: 111 CR 4990

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	601/602	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐MTBE ☐TMB ☐PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐/DBCP ☐		8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics ☐PBMS	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides/PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:		Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method1311)	Metals:		NUMBER OF CONTAINERS
SHS-19	11/12/07	0847	Water	01			X																										3
SHS-18	11/12/07	1042	Water	02			X																										3
SHS-9	11/12/07	1212	Water	03			X																										3

WEEKEND ANALYSES MAY RESULT IN AN ADDITIONAL SURCHARGE - PLEASE INQUIRE.

PROJECT INFORMATION

PROJ. NO.: 30002
PROJ. NAME: Farmer Ref.
P.O. NO.:
SHIPPED VIA: UPS

SAMPLE RECEIPT

NO. CONTAINERS	16
CUSTODY SEALS	(Y) / N / NA
RECEIVED INTACT	Yes
BLUE ICE/(ICE)	4.5°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐24hr* ☐48hr* ☐72hr* ☐ 1 WEEK (NORMAL) ☒
*NOT AVAILABLE ON ALL ANALYSES

CERTIFICATION REQUIRED ☐ NM ☐ SDWA ☐ AZ ☐ OTHER

METHANOL PRESERVATION ☐ METALS ☐ TOTAL ☐ DISSOLVED

COMMENTS:
11-13-07 Custody Seal on Cooler, not on vials

RELINQUISHED BY: 1.
Signature: [signature] Time: 1630
Printed Name: M Nee Date: 11/12/07
Company: Lodestar
See Reverse side (Force Majeure)

RECEIVED BY: 1.
Signature: Time:
Printed Name: Date:
Company:

RELINQUISHED BY: 2.
Signature: Time:
Printed Name: Date:
Company:

RECEIVED BY: (LAB) 2.
Signature: [signature] Time: 1050
Printed Name: David Gallegos Date: 11-13-07
Pinnacle Laboratories Inc.