ANNUAL REPORT

FORMER GIANT BLOOMFIELD REFINERY
BLOOMFIELD, NEW MEXICO
DISCHARGE PERMIT GW-040

APRIL 2011

Western Refining

WESTERN REFINING SOUTHWEST, INC.
111 CR 4990
Bloomfield, New Mexico 87413

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EXECUTIVE SUMMARY

LT Environmental, Inc. (LTE) on behalf of Western Refining Southwest, Inc. (Western) has prepared this report detailing work completed from January through December 2010 at the former Giant Bloomfield Refinery (Site) in Bloomfield, New Mexico. The scope of work for this project was continued mitigation and monitoring of petroleum hydrocarbon impacts to groundwater, which were identified upon cessation of refinery operations. During the time period covered in this report, Western utilized a groundwater recovery and remediation system consisting of groundwater recovery wells, a carbon filtration unit, and a treated water infiltration trench.

LTE conducted weekly operations and maintenance on the remediation system and monitored groundwater quality throughout 2010. Quarterly activities in 2010 included sampling the remediation system influent and effluent for laboratory analysis of volatile organic compounds (VOCs), measuring depth to groundwater in groundwater monitoring and recovery wells, and recovering phase separated hydrocarbons (PSH) in groundwater monitoring wells. When PSH was detected in monitoring wells, oil absorbent socks were placed in the wells for product recovery. Annual activities in January 2010 included collecting groundwater samples from 17 monitoring wells and two recovery wells for laboratory analysis of VOCs. One collected groundwater sample was analyzed for polynuclear aromatic hydrocarbons (PAH).

Laboratory analysis results indicated no VOCs were detected in influent and effluent groundwater samples. Minor concentrations of VOC constituents were detected in the annual groundwater samples from monitoring wells GBR-24D, GBR-32, GBR-48, GBR-49, and GBR-50, and minor concentrations of PAH constituents were detected in monitoring well GBR-24D. However, concentrations of these constituents were below New Mexico Water Quality Control Commission standards. Thin accumulations of PSH exist in source areas identified during previous subsurface investigations. A total of 93.6 ounces of PSH were recovered from the Site in 2010.

A total of 1,121,363 gallons of groundwater was recovered and treated by the remediation system in 2010, representing a decrease from the 9,455,408 gallons treated during 2009. However, the lower recovery volume was sufficient to maintain a hydraulic barrier preventing migration of PSH offsite. Smaller thicknesses of PSH were observed in groundwater monitoring wells compared to 2009 and there was a decreased total number of groundwater monitoring wells containing measurable volumes of PSH in 2010. This suggests PSH recovery with oil absorbent socks was effective.

Based on the results presented in this report, Western should continue PSH recovery and operation of the remediation system. LTE recommends continued quarterly monitoring of groundwater flow behavior and presence of PSH, as well as influent and effluent sampling and laboratory analysis. Annual sampling of monitoring and recovery wells should continue.

1.0 INTRODUCTION

LT Environmental, Inc. (LTE) prepared this report for Western Refining Southwest, Inc. (Western) to summarize work completed from January through December 2010 at the former Giant Bloomfield Refinery (Site) in Bloomfield, New Mexico.

1.1 SITE DESCRIPTION

The Site is on the northeast corner of United States (U.S.) Highway 64 and County Road 350, approximately five miles west of Bloomfield, New Mexico, in the northwest quarter of Section 27 and the southwest quarter of Section 22, Township 29 North, Range 12 West in San Juan County (Figure 1). Facilities include a control building, aboveground storage tanks, a carbon filtration tank, groundwater monitoring wells, and groundwater recovery wells (Figure 2).

1.2 SITE HISTORY

The former refinery, under ownership of Giant Industries, Arizona (Giant), produced leaded and unleaded gasoline, diesel, kerosene, and other refined petroleum products from 1974 to 1982 but is presently inactive. The refining operations and subsequent truck loading and unloading activities impacted groundwater, which were identified and investigated as part of the site closure requirements prescribed by the New Mexico Oil Conservation Division (NMOCD) in 1986. Details of a subsurface investigation and initial remediation efforts are contained in a 1987 report entitled *Soil and Groundwater Investigations and Remedial Action Plan, Giant Industries, Inc. Bloomfield Refinery, Bloomfield, New Mexico.* The investigation identified three source areas (Figure 2):

- Northern Area (Diesel Spill Area): 10,000 to 15,000 gallons of diesel were released from a pipeline in 1985;
- Central Area (Truck Fueling Area): 15,000 gallons of diesel were released from a pipeline in 1986; and
- Southern Area: Historic releases from a former fire fighting drill area east and upgradient of the Site may have collected in a former seep and a stormwater catchment area.

Concurrent with refinery operations, the Lee Acres Landfill, formerly located up-gradient of the Site, operated as a San Juan County landfill from 1962 to 1986 (Figure 1). Solid wastes were disposed of in trenches, and a series of lagoons were used for disposal of a variety of liquid wastes. The NMOCD sampled the lagoons in 1985 and demonstrated that the liquids in the impoundments contained a variety of chlorinated solvents, petroleum hydrocarbon constituents, heavy metals, and salts. In April 1985, a breach in the dike retaining the lagoons released liquid wastes into an arroyo west of the Site. The arroyo drains south toward the Lee Acres Subdivision, where the NMOCD and the New Mexico Environment Department (NMED) identified contaminated water in domestic water wells in 1988. In response, the NMOCD required Giant to investigate petroleum hydrocarbon impacts to groundwater downgradient of the refinery in the Lee Acres Subdivision, and the NMED conducted a separate investigation to identify potential landfill impacts. The results of the subsurface investigation south of the refinery by Giant are contained in three volumes of the 1992 report, *Remedial Investigation*

Report for Lee Acres Landfill. The NMED, in conjunction with the Bureau of Land Management and the United States Geological Survey, published their results in three reports referenced in Section 6.0 of this report.

The investigations identified two separate plumes of impacted groundwater that commingled across the refinery and flowed downgradient into the Lee Acres Subdivision. Groundwater contaminants detected in the refinery plume included phase-separated hydrocarbons (PSH) and dissolved phase petroleum hydrocarbons. The dissolved-phase constituents included benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, and 1,2 dichloroethane (EDC). The landfill contaminant plume contained total dissolved solids, chloride, sulfate, manganese, BTEX, naphthalene, 1,1 dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, 1,1,1-trichloroethane, and trichloroethene.

Beginning in 1988, Giant installed a groundwater recovery, treatment, and disposal system in stages at the Site to restrict migration of contaminants and to remediate groundwater impacts caused by their operations. A total of 45 monitoring wells were initially installed and designated GBR wells (Figure 2). Of these 45 monitoring wells, 11 were converted to recovery wells and re-named with GRW designations. An additional 17 monitoring wells were completed in the Lee Acres Subdivision and designated as SHS wells. Four SHS wells initially operated as recovery wells. Giant pumped groundwater from the recovery wells into storage tanks, then treated the groundwater with carbon filtration, and re-injected treated groundwater into the subsurface through two infiltration galleries.

As groundwater quality improved over time, the remediation system was gradually simplified. It currently consists of 10 active groundwater recovery wells that pump groundwater into a single storage tank (Tank 102). Groundwater from the tank is transferred to a carbon filtration tank, and then passes through a treated water infiltration gallery (Figure 2). Following initial contaminant reduction, the groundwater remediation system operated in an operation and maintenance mode. Concentrations of contaminates within the remediation system's influent and effluent were below laboratory detection limits for 18 years. In 2008, Western began a supplemental evaluation of the remedial operations, which included shutting down the remediation system and sampling groundwater wells under static conditions in an effort to redefine the area of impact and assess effectiveness of the remediation system. Existing equipment was inspected and repaired to optimize performance. Results from the sampling event were included in the 2008 annual report submitted to the NMOCD. Pumping and treating operations were resumed in February 2009 and have continued through 2010.

1.3 SITE HYDROLOGY

The Site is located on weathered outcrops of the Nacimiento Formation, which is comprised of shales, sandstones, and siltstones of Cretaceous-Teritary age. The San Juan River is approximately 2,000 feet south of the Site. Immediately west is a large unnamed arroyo, which is underlain by 30 feet to 60 feet of Quaternary alluvial sediments. Older Quaternary terrace deposits of cobbles and boulders were observed on the interfluvial ridges adjacent to the arroyo. These terrace deposits may have been utilized as fill on the Site. The outcropping surfaces of the Nacimiento Formation have been eroded to form a paleo-channel that appears to be similar in

morphology to the existing surface arroyo located to the west. The bedrock is overlain by recent alluvial deposits (gravel, sand, silt, and clay), which thicken toward the southwest.

The subsurface geology is a controlling feature for groundwater flow direction and contaminant migration. Shallow groundwater is generally unconfined with some local areas potentially under semi-confined conditions. There are two aquifers of concern that are in direct hydraulic communication: 1) a shallow aquifer composed of recent alluvial materials and 2) a bedrock aquifer that exists in the underlying Nacimiento Formation. The alluvial aquifer generally has the higher permeability of the two aquifers, and recovery wells completed within this aquifer have higher yields with larger radii of influence.

1.4 SCOPE OF WORK

The scope of work for this project included operating and maintaining the groundwater remediation system, monitoring groundwater quality and presence of PSH, and recovering PSH. A summary of field activities, results, conclusions, and recommendations are presented in the subsequent sections of this report.

2.0 METHODOLOGY

2.1 GROUNDWATER REMEDIATION SYSTEM

The groundwater remediation system at the Site was designed to pump impacted groundwater from local aquifers through a series of recovery wells, which prevent migration of impacted water beyond the influence of the wells as illustrated on Figure 3. The recovered groundwater is collected in a storage tank (Tank 102) and pumped to a second tank with a carbon matrix lining where it is treated by carbon adsorption. The treated water is then returned to the aquifer through an infiltration trench. The infiltration trench consists of a subsurface system of perforated polyvinyl chloride (PVC) pipes 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 acts as a recharge mechanism. Figure 4 is a simplified diagram representation of groundwater recovery, treatment, and disposal system at the Site.

2.2 OPERATIONS AND MAINTENANCE

LTE conducted weekly inspections to ensure normal operation of the remediation system. A panel located in the control building controls operation of the remediation system and incorporates shutdown functions to safeguard against tank overflows and other undesirable events. The control panel was monitored weekly, as were water flow meters at each storage tank and recovery well. Weekly observations were recorded in a bound field logbook with the date, time and person recording the information noted. Water meter readings were entered into a spreadsheet to calculate flow volumes and monitor cumulative flow rates. All equipment at the Site was inspected for leaks and malfunctions. The inspector was familiar with the location of underground lines and noted any surface indication of underground leaks.

Maintenance included repair and replacement of well pumps, pump controllers, and flow meters. LTE also replaced filters in well houses on a regular basis, inspected the carbon pre-filter, and repaired any other hardware as necessary.

2.3 GROUNDWATER MONITORING

Quarterly groundwater monitoring included measurements of depth to groundwater at all monitoring wells with a Keck oil-water interface probe, and investigation for the presence of PSH. The interface probe was decontaminated with Alconox™ soap and rinsed with de-ionized water before each measurement. Depth to groundwater measurements were used to calculate quarterly groundwater elevations at the Site to determine direction of groundwater flow and hydraulic control achieved by the recovery wells. The recovery pumps were not turned off during quarterly monitoring events nor were the pumps removed from the recovery wells; therefore, calculated groundwater elevations do not represent static conditions.

Oil absorbent socks were used to passively recover PSH detected in groundwater monitoring wells at the Site. The socks were checked quarterly and replaced as necessary. Volumes of recovered PSH were estimated based on percent saturation observed in the socks and were recorded in a field log book.

Influent and effluent groundwater samples were collected quarterly and analyzed for volatile organic compounds (VOCs) using U.S. Environmental Protection Agency (EPA) Method 8260B. Influent groundwater was collected from a system valve before it entered Tank 102. Effluent groundwater was collected through a sample valve as treated water exited the carbon adsorption tank. Groundwater samples were collected in appropriate pre-cleaned and/or pre-preserved sample bottles or glass vials. Samples were labeled with the date and time of collection, sample designation, project name, collector's name, and parameters to be analyzed and immediately sealed and packed on ice. The samples were shipped to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico before designated holding times expired following strict chain-of-custody procedures.

LTE collected annual groundwater samples from groundwater monitoring wells within and south of the Site. The sampling schedule in Table 1 represents the revised groundwater sampling schedule instituted in March 2009 following submittal of the April 2008 annual report. The volume of groundwater in the wells was calculated, and a minimum of three well casing volumes of groundwater was purged from each well using a disposable bailer. As groundwater was extracted, pH, electric conductivity and temperature were monitored. Wells were purged until these properties stabilized or the well bailed dry, indicating the purge water was representative of aquifer conditions. Stabilization was defined as three consecutive stable readings for each water property (±0.4 units for pH, ±10 percent for electric conductivity and ±2° Celsius for temperature). Once each monitoring well was properly purged, groundwater samples were collected in bottles or vials and shipped to HEAL. Groundwater sampling from recovery wells followed the same procedures as monitoring wells, except pumps installed in recovery wells were used to purge the appropriate volume of groundwater from each recovery well. The groundwater samples were analyzed for VOCs according to EPA method 8260B, and groundwater sample GBR-24D was also analyzed for polynuclear aromatic hydrocarbons (PAH) according to EPA Method 8310.

3.0 RESULTS

3.1 OPERATIONS AND MAINTENANCE

LTE addressed several maintenance problems at the Site. The groundwater pump in GRW-4 failed twice and had to be replaced, and groundwater pumps in GRW-3 and GRW-9 were repaired. The flow meters at four recovery wells were replaced, heaters in two well boxes were replaced, and frozen pipes were repaired during the winter.

The recovery pump in GRW-1 ceased working in 2009 and was not returned to service, making this well inactive during 2010. Recovery wells GRW-3, GRW-9, and GRW-10 pumped considerably lower volumes of groundwater as compared to 2009. Table 2 presents the total volume of groundwater pumped from each recovery well during 2010 and 2009. A total of 1,121,363 gallons of groundwater were recovered and treated by carbon filtration in 2010, representing a decrease from the 9,455,408 gallons treated during the 2009.

3.2 QUARTERLY GROUNDWATER MONITORING

Measured groundwater elevations and thickness of PSH in groundwater monitoring and recovery wells are presented in Table 3 and quarterly potentiometric surface maps are depicted in Figures 5 through 8. Groundwater flow direction was consistently toward the southwest throughout the year. Drawdown around recovery wells is evident each quarter.

Thin accumulations of PSH were measured in groundwater monitoring wells near each of the source areas identified in the preliminary subsurface investigation conducted by Giant. Near the Northern Area, 0.01 feet of PSH was measured in GBR-26 during October 2010. Near the Central Area, 0.31 feet of PSH were detected in GBR-22 in January 2010, and 0.35 feet were measured in GBR-34 in October 2010. Monitoring well GBR-22 was dry during the rest of the quarterly monitoring events. Near the Southern Area, 0.04 feet of PSH were measured in GBR-20 in July 2010, but at no other time during the year. No other wells in the Southern Area contained detectable PSH in 2010. The number of wells containing measureable PSH decreased and the overall thicknesses measured decreased in 2010 compared to 2009. The total volume of PSH recovered from monitoring wells during 2010 was 0.73 gallons (Table 4). The volume of PSH recovered during 2010 was less than the volume of PSH recovered during 2009.

3.3 GROUNDWATER SAMPLING

Laboratory analytical results from groundwater sampling are in Table 5 and the complete laboratory analytical reports are in Appendix A. Isopach maps and geologic cross sections illustrating the distribution of analytes are not included, because the sampling events do not include wells from all of the current source areas. Such a presentation of results would not be indicative of true conditions at the Site. Laboratory analytical results from 2010 are summarized below.

- No VOCs were detected exceeding laboratory detection limits in influent or effluent samples.

- VOCs were detected in the annual groundwater samples, but only in minor concentrations that do not exceed NMWQCC standards:
    - 1,2,4-trimethlybenzene, 1-methylnapthalene, and 2-methlynapthalene were detected in monitoring well GBR-24D.
    - Tetrachloroethene was detected in upgradient monitoring wells GBR-32, GBR-48, and GBR-49.
    - Acetone was detected in upgradient monitoring well GBR-50.
- Concentrations of the PAH constituents phenanthrene, fluorine, naphthalene, 1-methylnapthalene, and 2-methylnapthalene were detected in GBR-24D, but did not exceed NMWQCC standards.

4.0 CONCLUSIONS

Western successfully prevented migration of contaminants in groundwater during 2010 and reduced the total volume of PSH present at the Site. The influent and effluent groundwater associated with the remediation system at the Site did not contain detectable concentrations of VOCs during 2010 and groundwater samples collected from monitoring and recovery wells did not contain VOCs or PAHs exceeding NMWQCC standards. Groundwater observed and sampled in the Lee Acres Subdivision exhibited no PSH and contained no concentrations of VOCs. Thin accumulations of PSH were present near the previously identified sources near the Northern and Central Areas and occasionally present near the Southern Area; however, the remediation system created a sufficient hydraulic barrier to restrict migration of PSH offsite, even though the volume of groundwater pumped by the recovery wells decreased during 2010. Smaller thicknesses of PSH were observed in groundwater monitoring wells compared to 2009 and there was a decreased total number of groundwater monitoring wells containing measurable volumes of PSH in 2010. This suggests PSH recovery with oil absorbent socks was effective.

5.0 RECOMMENDATIONS

LTE presents the following recommendations at the Site:

1. Continue to operate and maintain the remediation system to prevent migration of PSH.
2. Continue passive PSH recovery using oil absorbent socks.
3. Continue quarterly monitoring of groundwater flow behavior and presence of PSH by measuring depth to groundwater.
4. Continue quarterly sampling and laboratory analysis of the remediation system influent and effluent.
5. Continue annual sampling and laboratory analysis of groundwater monitoring and recovery wells, including monitoring well SHS-8 on the south side of the Site.

6.0 REFERENCES

AEPCO, Inc. *Site Investigation Report for Lee Acres Site, San Juan County, New Mexico (Final Report),* BLM Contract NO. AA852-Ct5-26, U.S. Department of the Interior, BLM, Washing D.C., May 1986.

McQuillan, D. and Longmire, P. *Water Quality Investigations at the Lee Acres Landfill and Vicinity, San Juan County, New Mexico,* Environmental Division, Ground water/Hazardous Waste Bureau, Santa Fe, NM, February 1986.

Peter, K., Williams, R.A. and King, K.W. *Hydrogeologic Characteristics of the Lee Acres Landfill Area, San Juan County, New Mexico,* U.S. Geological Survey Water Resources Investigations Report 87-4246, Albuquerque, NM, 1987.

Roy F. Weston, Inc. *Remedial Investigation Report for Lee Acres Landfill, Volumes 1-3,* Albuquerque, NM, September 1992.

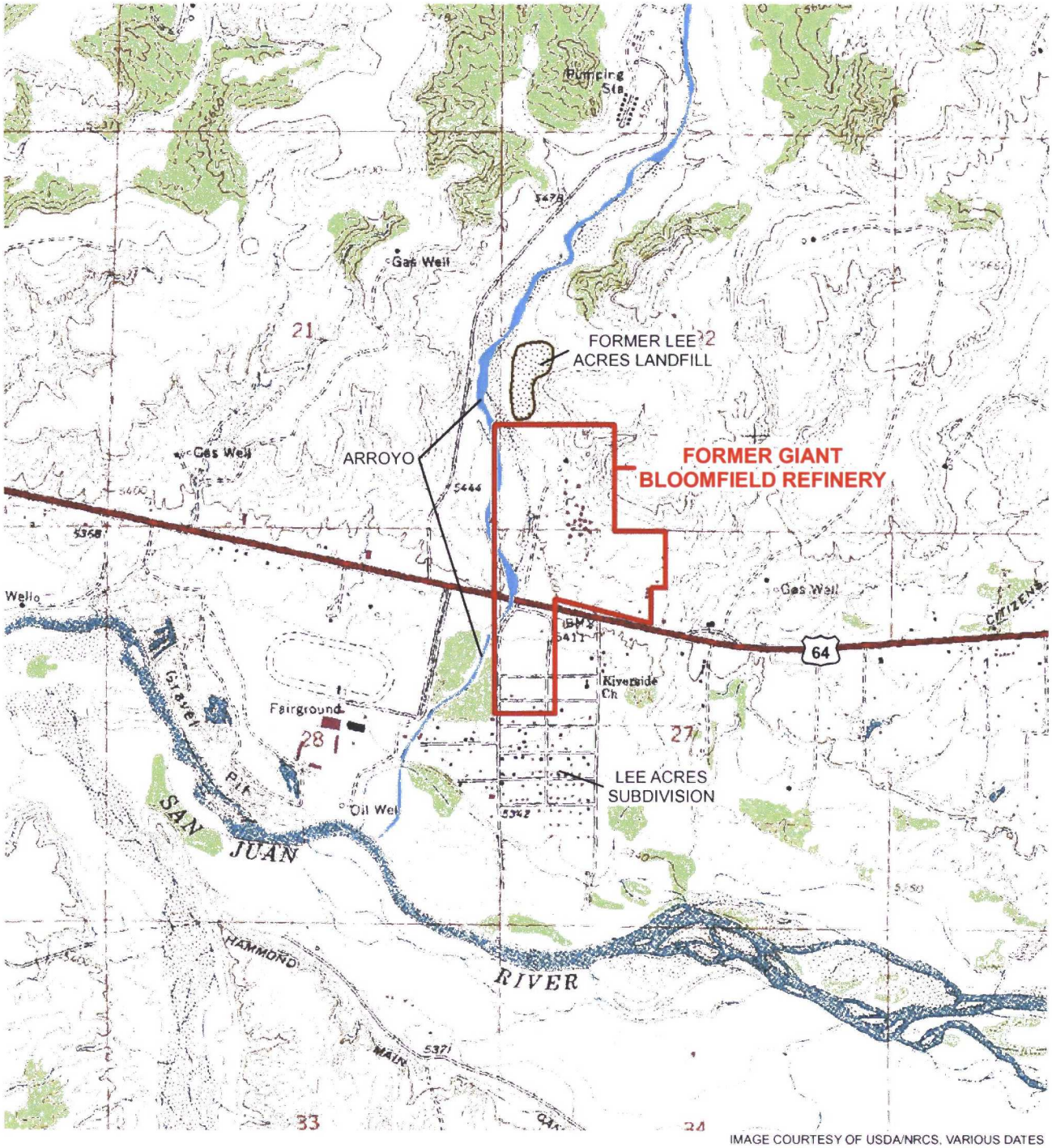
Roy F. Weston, Inc. *Proposed Emergency Action for Lee Acres Landfill,* Albuquerque, NM, November 1990.

Geoscience Consultants, LTD., *Soil and Groundwater Investigations and Remedial Action Plan, Giant Industries, Inc. Bloomfield Refinery, Bloomfield, New Mexico,* 1987.

Lodestar Services, Inc., *Annual Data Report Former Giant Bloomfield Refinery,* March 2009.

RPS JDC Consulting, *Review of Groundwater Remediation System, Old Giant Bloomfield Refinery, Bloomfield, New Mexico,* June 2009.

FIGURES



LEGEND

- SITE LOCATION
- ARROYO
- FORMER LEE ACRES LANDFILL

FIGURE 1
REGIONAL MAP
FORMER GIANT BLOOMFIELD REFINERY
SWSW SEC 22 & WNW SEC 27 T29N R12W
SAN JUAN COUNTY, NEW MEXICO
WESTERN REFINING SOUTHWEST, INC.

P:\Western Refining\GIS\MXD\WR1009 GIANT\WR1009_GIANT_FIG01_SL.mxd

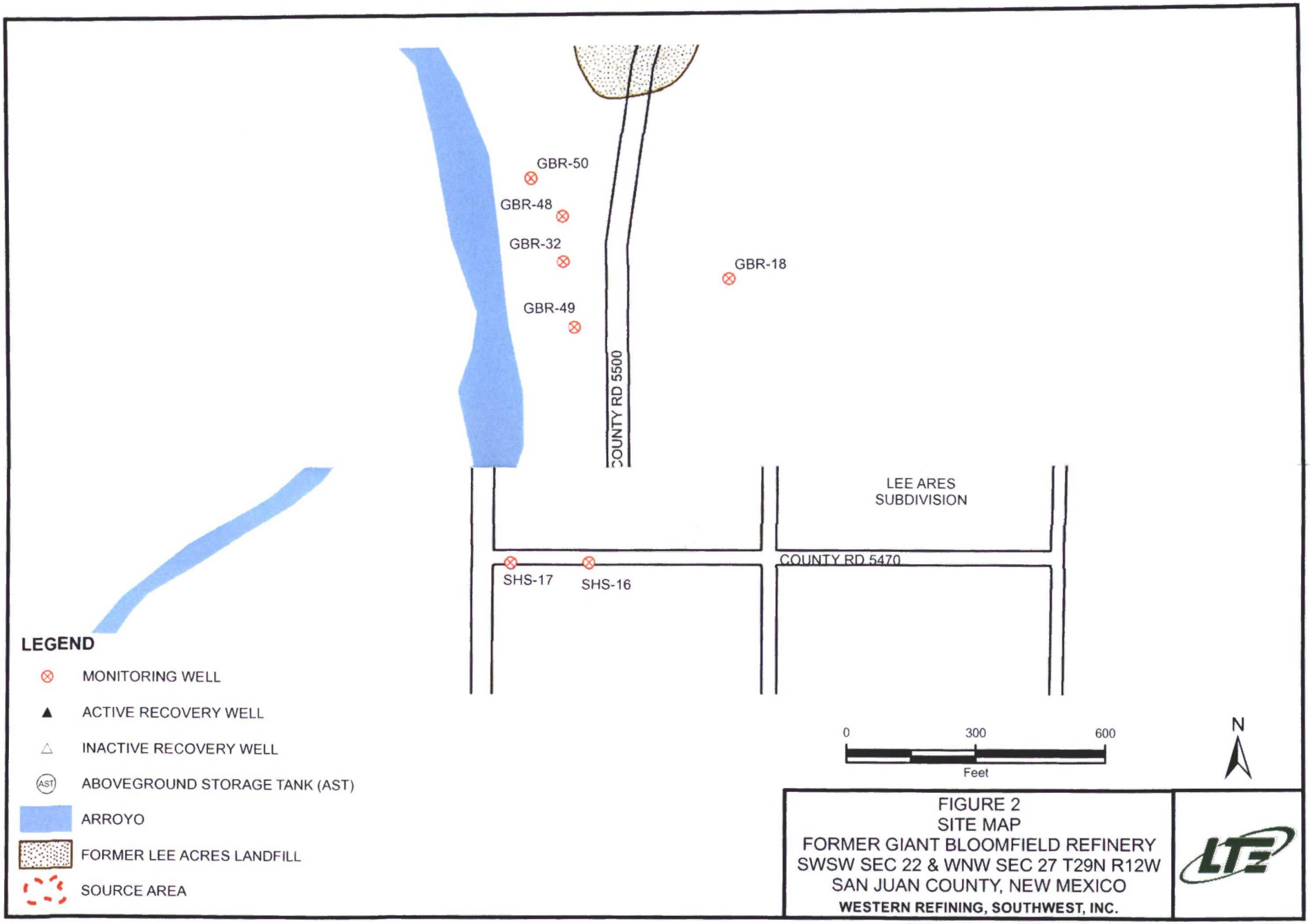


FIGURE 2
SITE MAP
FORMER GIANT BLOOMFIELD REFINERY
SWSW SEC 22 & WNW SEC 27 T29N R12W
SAN JUAN COUNTY, NEW MEXICO
WESTERN REFINING, SOUTHWEST, INC.

P:\Western Refining\GIS\MXD\WR1009 GIANT\WR1009_GIANT_FIG02_SITE.mxd

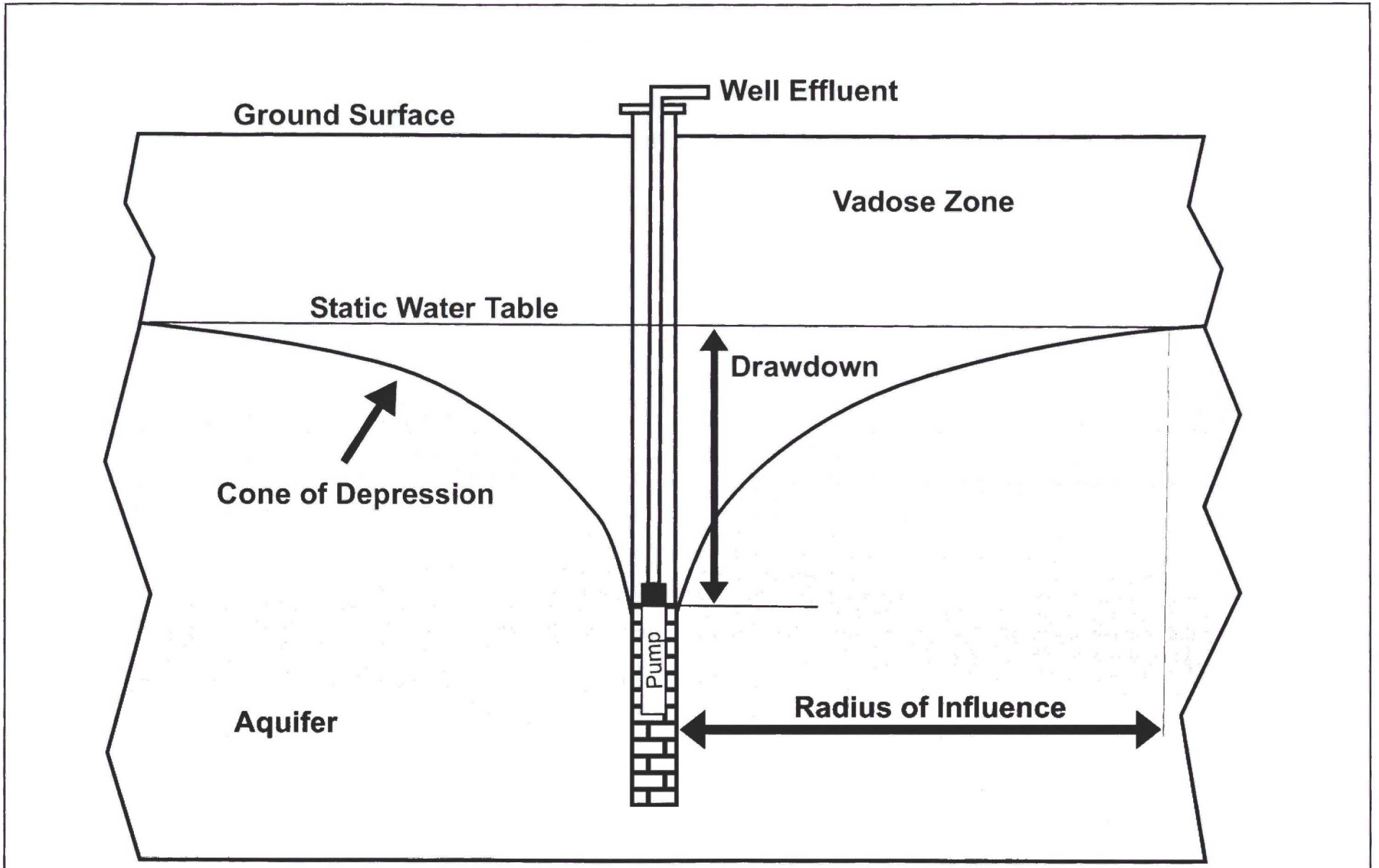


FIGURE 3
HYDRAULIC BARRIER
FORMER GIANT BLOOMFIELD REFINERY
SWSW SEC 22 & WNW SEC 27 T29N R12W
WESTERN REFINING SOUTHWEST, INC.

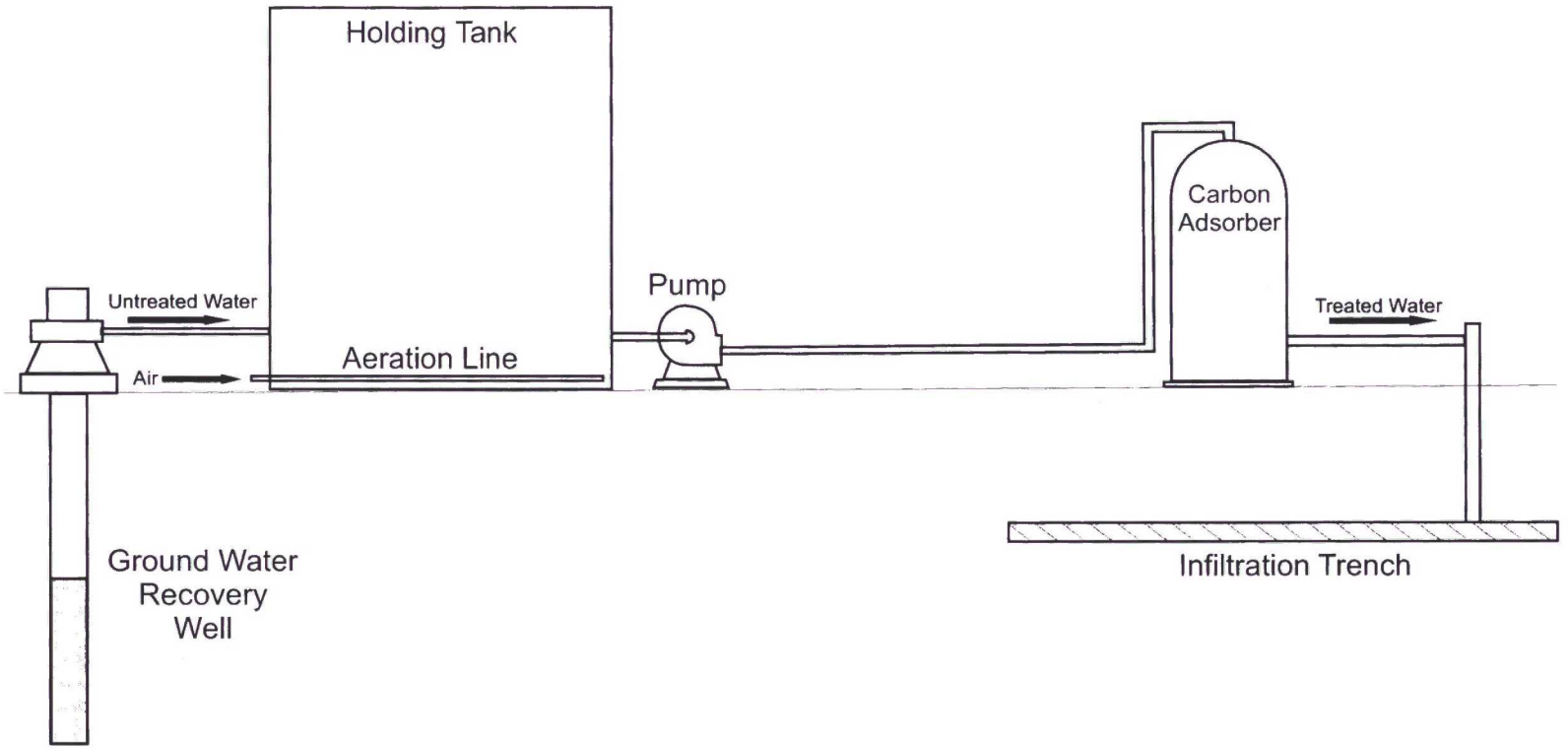


FIGURE 4
SIMPLIFIED REPRESENTATION OF THE GROUNDWATER RECOVERY, TREATMENT AND DISPOSAL SYSTEM
FORMER GIANT BLOOMFIELD REFINERY
SWSW SEC 22 & WNW SEC 27 T29N R12W
WESTERN REFINING SOUTHWEST, INC.

APPENDIX A

LABORATORY ANALYTICAL REPORTS

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, January 26, 2010

Ashley Ager
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (970) 946-1093
FAX (505) 632-3911

RE: GBR

Order No.: 1001201

Dear Ashley Ager:

Hall Environmental Analysis Laboratory, Inc. received 16 sample(s) on 1/15/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

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

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

Sincerely,

For Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	1001201	**Collection Date:**	
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-01	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 3:35:37 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 3:35:37 AM
Acetone	ND	10		µg/L	1	1/16/2010 3:35:37 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 3:35:37 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 3:35:37 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 3:35:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	1001201	**Collection Date:**	
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-01	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 3:35:37 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 3:35:37 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 3:35:37 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 3:35:37 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 3:35:37 AM
Surr: 1,2-Dichloroethane-d4	95.6	54.6-141		%REC	1	1/16/2010 3:35:37 AM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	1/16/2010 3:35:37 AM
Surr: Dibromofluoromethane	98.4	78.5-130		%REC	1	1/16/2010 3:35:37 AM
Surr: Toluene-d8	97.5	79.5-126		%REC	1	1/16/2010 3:35:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-52
Lab Order:	1001201	**Collection Date:**	1/12/2010 1:42:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 4:03:04 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 4:03:04 AM
Acetone	ND	10		µg/L	1	1/16/2010 4:03:04 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 4:03:04 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 4:03:04 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 4:03:04 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-52
Lab Order:	1001201	**Collection Date:**	1/12/2010 1:42:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 4:03:04 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 4:03:04 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 4:03:04 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 4:03:04 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 4:03:04 AM
Surr: 1,2-Dichloroethane-d4	96.9	54.6-141		%REC	1	1/16/2010 4:03:04 AM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	1/16/2010 4:03:04 AM
Surr: Dibromofluoromethane	95.9	78.5-130		%REC	1	1/16/2010 4:03:04 AM
Surr: Toluene-d8	96.1	79.5-126		%REC	1	1/16/2010 4:03:04 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-51
Lab Order:	1001201	**Collection Date:**	1/12/2010 3:33:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 4:30:40 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 4:30:40 AM
Acetone	ND	10		µg/L	1	1/16/2010 4:30:40 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 4:30:40 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 4:30:40 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 4:30:40 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-51
Lab Order:	1001201	**Collection Date:**	1/12/2010 3:33:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 4:30:40 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 4:30:40 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 4:30:40 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 4:30:40 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 4:30:40 AM
Surr: 1,2-Dichloroethane-d4	95.6	54.6-141		%REC	1	1/16/2010 4:30:40 AM
Surr: 4-Bromofluorobenzene	107	60.1-133		%REC	1	1/16/2010 4:30:40 AM
Surr: Dibromofluoromethane	97.0	78.5-130		%REC	1	1/16/2010 4:30:40 AM
Surr: Toluene-d8	94.7	79.5-126		%REC	1	1/16/2010 4:30:40 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	SHS-8
Lab Order:	1001201	**Collection Date:**	1/12/2010 4:12:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 5:53:42 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 5:53:42 AM
Acetone	ND	10		µg/L	1	1/16/2010 5:53:42 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 5:53:42 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 5:53:42 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 5:53:42 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	SHS-8
Lab Order:	1001201	**Collection Date:**	1/12/2010 4:12:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 5:53:42 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 5:53:42 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 5:53:42 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 5:53:42 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 5:53:42 AM
Surr: 1,2-Dichloroethane-d4	94.6	54.6-141		%REC	1	1/16/2010 5:53:42 AM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	1/16/2010 5:53:42 AM
Surr: Dibromofluoromethane	97.0	78.5-130		%REC	1	1/16/2010 5:53:42 AM
Surr: Toluene-d8	95.8	79.5-126		%REC	1	1/16/2010 5:53:42 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-50
Lab Order:	1001201	**Collection Date:**	1/13/2010 9:31:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 6:21:14 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 6:21:14 AM
Acetone	11	10		µg/L	1	1/16/2010 6:21:14 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 6:21:14 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 6:21:14 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 6:21:14 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-50
Lab Order:	1001201	**Collection Date:**	1/13/2010 9:31:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 6:21:14 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 6:21:14 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 6:21:14 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 6:21:14 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 6:21:14 AM
Surr: 1,2-Dichloroethane-d4	95.6	54.6-141		%REC	1	1/16/2010 6:21:14 AM
Surr: 4-Bromofluorobenzene	111	60.1-133		%REC	1	1/16/2010 6:21:14 AM
Surr: Dibromofluoromethane	95.4	78.5-130		%REC	1	1/16/2010 6:21:14 AM
Surr: Toluene-d8	94.4	79.5-126		%REC	1	1/16/2010 6:21:14 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-48
Lab Order:	1001201	**Collection Date:**	1/13/2010 10:12:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 6:48:46 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 6:48:46 AM
Acetone	ND	10		µg/L	1	1/16/2010 6:48:46 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 6:48:46 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 6:48:46 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 6:48:46 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-48
Lab Order:	1001201	**Collection Date:**	1/13/2010 10:12:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 6:48:46 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 6:48:46 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
Tetrachloroethene (PCE)	1.3	1.0		µg/L	1	1/16/2010 6:48:46 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 6:48:46 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 6:48:46 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 6:48:46 AM
Surr: 1,2-Dichloroethane-d4	96.3	54.6-141		%REC	1	1/16/2010 6:48:46 AM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	1/16/2010 6:48:46 AM
Surr: Dibromofluoromethane	98.6	78.5-130		%REC	1	1/16/2010 6:48:46 AM
Surr: Toluene-d8	94.9	79.5-126		%REC	1	1/16/2010 6:48:46 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-32
Lab Order:	1001201	**Collection Date:**	1/13/2010 10:54:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 7:16:13 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 7:16:13 AM
Acetone	ND	10		µg/L	1	1/16/2010 7:16:13 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 7:16:13 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 7:16:13 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 7:16:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-32
Lab Order:	1001201	**Collection Date:**	1/13/2010 10:54:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 7:16:13 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 7:16:13 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
Tetrachloroethene (PCE)	1.0	1.0		µg/L	1	1/16/2010 7:16:13 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 7:16:13 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 7:16:13 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 7:16:13 AM
Surr: 1,2-Dichloroethane-d4	98.1	54.6-141		%REC	1	1/16/2010 7:16:13 AM
Surr: 4-Bromofluorobenzene	104	60.1-133		%REC	1	1/16/2010 7:16:13 AM
Surr: Dibromofluoromethane	98.9	78.5-130		%REC	1	1/16/2010 7:16:13 AM
Surr: Toluene-d8	96.4	79.5-126		%REC	1	1/16/2010 7:16:13 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-49
Lab Order:	1001201	**Collection Date:**	1/13/2010 11:22:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 7:43:44 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 7:43:44 AM
Acetone	ND	10		µg/L	1	1/16/2010 7:43:44 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 7:43:44 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 7:43:44 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 7:43:44 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-49
Lab Order:	1001201	**Collection Date:**	1/13/2010 11:22:00 AM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 7:43:44 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 7:43:44 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
Tetrachloroethene (PCE)	1.6	1.0		µg/L	1	1/16/2010 7:43:44 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 7:43:44 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 7:43:44 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 7:43:44 AM
Surr: 1,2-Dichloroethane-d4	97.5	54.6-141		%REC	1	1/16/2010 7:43:44 AM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	1/16/2010 7:43:44 AM
Surr: Dibromofluoromethane	99.9	78.5-130		%REC	1	1/16/2010 7:43:44 AM
Surr: Toluene-d8	97.1	79.5-126		%REC	1	1/16/2010 7:43:44 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-17
Lab Order:	1001201	**Collection Date:**	1/13/2010 12:12:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 8:11:16 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 8:11:16 AM
Acetone	ND	10		µg/L	1	1/16/2010 8:11:16 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 8:11:16 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 8:11:16 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 8:11:16 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-17
Lab Order:	1001201	**Collection Date:**	1/13/2010 12:12:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 8:11:16 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 8:11:16 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 8:11:16 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 8:11:16 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 8:11:16 AM
Surr: 1,2-Dichloroethane-d4	96.7	54.6-141		%REC	1	1/16/2010 8:11:16 AM
Surr: 4-Bromofluorobenzene	106	60.1-133		%REC	1	1/16/2010 8:11:16 AM
Surr: Dibromofluoromethane	95.8	78.5-130		%REC	1	1/16/2010 8:11:16 AM
Surr: Toluene-d8	96.6	79.5-126		%REC	1	1/16/2010 8:11:16 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GRW-3
Lab Order:	1001201	**Collection Date:**	1/13/2010 12:52:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-10	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Toluene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Ethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Naphthalene	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 8:38:52 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/16/2010 8:38:52 AM
Acetone	ND	10		µg/L	1	1/16/2010 8:38:52 AM
Bromobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Bromodichloromethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Bromoform	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Bromomethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
2-Butanone	ND	10		µg/L	1	1/16/2010 8:38:52 AM
Carbon disulfide	ND	10		µg/L	1	1/16/2010 8:38:52 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Chlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Chloroethane	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
Chloroform	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Chloromethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
2-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
4-Chlorotoluene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
cis-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
Dibromochloromethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Dibromomethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
2-Hexanone	ND	10		µg/L	1	1/16/2010 8:38:52 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GRW-3
Lab Order:	1001201	**Collection Date:**	1/13/2010 12:52:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-10	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/16/2010 8:38:52 AM
Methylene Chloride	ND	3.0		µg/L	1	1/16/2010 8:38:52 AM
n-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
n-Propylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
sec-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Styrene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
tert-Butylbenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
trans-1,2-DCE	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/16/2010 8:38:52 AM
Vinyl chloride	ND	1.0		µg/L	1	1/16/2010 8:38:52 AM
Xylenes, Total	ND	1.5		µg/L	1	1/16/2010 8:38:52 AM
Surr: 1,2-Dichloroethane-d4	95.9	54.6-141		%REC	1	1/16/2010 8:38:52 AM
Surr: 4-Bromofluorobenzene	104	60.1-133		%REC	1	1/16/2010 8:38:52 AM
Surr: Dibromofluoromethane	95.7	78.5-130		%REC	1	1/16/2010 8:38:52 AM
Surr: Toluene-d8	94.7	79.5-126		%REC	1	1/16/2010 8:38:52 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GRW-6
Lab Order:	1001201	**Collection Date:**	1/13/2010 1:04:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-11	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 1:40:10 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 1:40:10 PM
Acetone	ND	10		µg/L	1	1/18/2010 1:40:10 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 1:40:10 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 1:40:10 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
Chloroform	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 1:40:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GRW-6
Lab Order:	1001201	**Collection Date:**	1/13/2010 1:04:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-11	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 1:40:10 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 1:40:10 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 1:40:10 PM
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 1:40:10 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 1:40:10 PM
Surr: 1,2-Dichloroethane-d4	97.0	54.6-141		%REC	1	1/18/2010 1:40:10 PM
Surr: 4-Bromofluorobenzene	110	60.1-133		%REC	1	1/18/2010 1:40:10 PM
Surr: Dibromofluoromethane	97.9	78.5-130		%REC	1	1/18/2010 1:40:10 PM
Surr: Toluene-d8	93.6	79.5-126		%REC	1	1/18/2010 1:40:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-31
Lab Order:	1001201	**Collection Date:**	1/13/2010 1:48:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-12	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 2:07:55 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 2:07:55 PM
Acetone	ND	10		µg/L	1	1/18/2010 2:07:55 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 2:07:55 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 2:07:55 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
Chloroform	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 2:07:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-31
Lab Order:	1001201	**Collection Date:**	1/13/2010 1:48:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-12	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 2:07:55 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 2:07:55 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 2:07:55 PM
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 2:07:55 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 2:07:55 PM
Surr: 1,2-Dichloroethane-d4	97.4	54.6-141		%REC	1	1/18/2010 2:07:55 PM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	1/18/2010 2:07:55 PM
Surr: Dibromofluoromethane	93.6	78.5-130		%REC	1	1/18/2010 2:07:55 PM
Surr: Toluene-d8	91.9	79.5-126		%REC	1	1/18/2010 2:07:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-24D
Lab Order:	1001201	**Collection Date:**	1/13/2010 2:30:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-13	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8310: PAHS						Analyst: JAT
Naphthalene	5.8	2.0		µg/L	1	1/24/2010 11:38:57 AM
1-Methylnaphthalene	7.7	2.0		µg/L	1	1/24/2010 11:38:57 AM
2-Methylnaphthalene	4.9	2.0		µg/L	1	1/24/2010 11:38:57 AM
Acenaphthylene	ND	2.5		µg/L	1	1/24/2010 11:38:57 AM
Acenaphthene	ND	5.0		µg/L	1	1/24/2010 11:38:57 AM
Fluorene	1.0	0.80		µg/L	1	1/24/2010 11:38:57 AM
Phenanthrene	0.62	0.60		µg/L	1	1/24/2010 11:38:57 AM
Anthracene	ND	0.60		µg/L	1	1/24/2010 11:38:57 AM
Fluoranthene	ND	0.30		µg/L	1	1/24/2010 11:38:57 AM
Pyrene	ND	0.30		µg/L	1	1/24/2010 11:38:57 AM
Benz(a)anthracene	ND	0.070		µg/L	1	1/24/2010 11:38:57 AM
Chrysene	ND	0.20		µg/L	1	1/24/2010 11:38:57 AM
Benzo(b)fluoranthene	ND	0.10		µg/L	1	1/24/2010 11:38:57 AM
Benzo(k)fluoranthene	ND	0.070		µg/L	1	1/24/2010 11:38:57 AM
Benzo(a)pyrene	ND	0.070		µg/L	1	1/24/2010 11:38:57 AM
Dibenz(a,h)anthracene	ND	0.070		µg/L	1	1/24/2010 11:38:57 AM
Benzo(g,h,i)perylene	ND	0.080		µg/L	1	1/24/2010 11:38:57 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	1/24/2010 11:38:57 AM
Surr: Benzo(e)pyrene	63.0	28.3-111		%REC	1	1/24/2010 11:38:57 AM
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2,4-Trimethylbenzene	3.5	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM
1-Methylnaphthalene	8.0	4.0		µg/L	1	1/18/2010 2:35:46 PM
2-Methylnaphthalene	7.4	4.0		µg/L	1	1/18/2010 2:35:46 PM
Acetone	ND	10		µg/L	1	1/18/2010 2:35:46 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 2:35:46 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 2:35:46 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-24D
Lab Order:	1001201	**Collection Date:**	1/13/2010 2:30:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-13	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Chloroform	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 2:35:46 PM
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 2:35:46 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 2:35:46 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 2:35:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-24D
Lab Order:	1001201	**Collection Date:**	1/13/2010 2:30:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-13	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 2:35:46 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 2:35:46 PM
Surr: 1,2-Dichloroethane-d4	95.9	54.6-141		%REC	1	1/18/2010 2:35:46 PM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	1/18/2010 2:35:46 PM
Surr: Dibromofluoromethane	95.9	78.5-130		%REC	1	1/18/2010 2:35:46 PM
Surr: Toluene-d8	94.5	79.5-126		%REC	1	1/18/2010 2:35:46 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-30
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:08:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-14	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:03:27 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:03:27 PM
Acetone	ND	10		µg/L	1	1/18/2010 3:03:27 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 3:03:27 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 3:03:27 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
Chloroform	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 3:03:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR-30
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:08:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-14	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 3:03:27 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 3:03:27 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 3:03:27 PM
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 3:03:27 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 3:03:27 PM
Surr: 1,2-Dichloroethane-d4	97.4	54.6-141		%REC	1	1/18/2010 3:03:27 PM
Surr: 4-Bromofluorobenzene	109	60.1-133		%REC	1	1/18/2010 3:03:27 PM
Surr: Dibromofluoromethane	95.6	78.5-130		%REC	1	1/18/2010 3:03:27 PM
Surr: Toluene-d8	95.1	79.5-126		%REC	1	1/18/2010 3:03:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:23:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-15	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:31:06 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:31:06 PM
Acetone	ND	10		µg/L	1	1/18/2010 3:31:06 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 3:31:06 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 3:31:06 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
Chloroform	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 3:31:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:23:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-15	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 3:31:06 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 3:31:06 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 3:31:06 PM
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 3:31:06 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 3:31:06 PM
Surr: 1,2-Dichloroethane-d4	97.4	54.6-141		%REC	1	1/18/2010 3:31:06 PM
Surr: 4-Bromofluorobenzene	105	60.1-133		%REC	1	1/18/2010 3:31:06 PM
Surr: Dibromofluoromethane	95.7	78.5-130		%REC	1	1/18/2010 3:31:06 PM
Surr: Toluene-d8	96.9	79.5-126		%REC	1	1/18/2010 3:31:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:53:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-16	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Toluene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Ethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Naphthalene	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:58:40 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	1/18/2010 3:58:40 PM
Acetone	ND	10		µg/L	1	1/18/2010 3:58:40 PM
Bromobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Bromodichloromethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Bromoform	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Bromomethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
2-Butanone	ND	10		µg/L	1	1/18/2010 3:58:40 PM
Carbon disulfide	ND	10		µg/L	1	1/18/2010 3:58:40 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Chlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Chloroethane	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
Chloroform	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Chloromethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
2-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
4-Chlorotoluene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
cis-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
Dibromochloromethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Dibromomethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
2-Hexanone	ND	10		µg/L	1	1/18/2010 3:58:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *26-Jan-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1001201	**Collection Date:**	1/13/2010 3:53:00 PM
Project:	GBR	**Date Received:**	1/15/2010
Lab ID:	1001201-16	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/18/2010 3:58:40 PM
Methylene Chloride	ND	3.0		µg/L	1	1/18/2010 3:58:40 PM
n-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
n-Propylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
sec-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Styrene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
tert-Butylbenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
trans-1,2-DCE	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	1/18/2010 3:58:40 PM
Vinyl chloride	ND	1.0		µg/L	1	1/18/2010 3:58:40 PM
Xylenes, Total	ND	1.5		µg/L	1	1/18/2010 3:58:40 PM
Surr: 1,2-Dichloroethane-d4	95.3	54.6-141		%REC	1	1/18/2010 3:58:40 PM
Surr: 4-Bromofluorobenzene	108	60.1-133		%REC	1	1/18/2010 3:58:40 PM
Surr: Dibromofluoromethane	95.3	78.5-130		%REC	1	1/18/2010 3:58:40 PM
Surr: Toluene-d8	96.0	79.5-126		%REC	1	1/18/2010 3:58:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				**Batch ID: R36991**		**Analysis Date: 1/15/2010 8:32:16 AM**			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				**Batch ID: R36991**		**Analysis Date:**		**1/15/2010 8:32:16 AM**	
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
t 1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
ple ID: b6		*MBLK*				**Batch ID: R36991**		**Analysis Date:**		**1/15/2010 9:08:41 PM**	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b6		*MBLK*				**Batch ID: R36991**		**Analysis Date: 1/15/2010 9:08:41 PM**			
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
ylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
ple ID: b3		*MBLK*				**Batch ID: R36999**		**Analysis Date: 1/18/2010 10:53:57 AM**			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
ID: b3		*MBLK*				**Batch ID: R36999**		**Analysis Date: 1/18/2010 10:53:57 AM**			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
iod: EPA Method 8260B: VOLATILES											
e ID: b3		*MBLK*				**Batch ID: R36999**		**Analysis Date:**	**1/18/2010 10:53:57 AM**		
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				**Batch ID: R36991**		**Analysis Date:**	**1/15/2010 9:35:54 AM**		
Benzene	21.38	µg/L	1.0	20	0	107	76.7	114			
Toluene	20.12	µg/L	1.0	20	0	101	78.4	117			
Chlorobenzene	20.20	µg/L	1.0	20	0	101	80.7	127			
1,1-Dichloroethene	24.60	µg/L	1.0	20	0	123	80.2	128			
Trichloroethene (TCE)	18.81	µg/L	1.0	20	0	94.0	77.4	115			
Sample ID: 100ng lcs-b		*LCS*				**Batch ID: R36991**		**Analysis Date:**	**1/15/2010 10:04:03 PM**		
Benzene	19.49	µg/L	1.0	20	0	97.5	76.7	114			
Toluene	19.98	µg/L	1.0	20	0	99.9	78.4	117			
Chlorobenzene	20.33	µg/L	1.0	20	0	102	80.7	127			
1,1-Dichloroethene	22.21	µg/L	1.0	20	0	111	80.2	128			
Trichloroethene (TCE)	17.05	µg/L	1.0	20	0	85.3	77.4	115			
Sample ID: 100ng lcs		*LCS*				**Batch ID: R36999**		**Analysis Date:**	**1/18/2010 11:49:21 AM**		
Benzene	19.91	µg/L	1.0	20	0	99.6	76.7	114			
Toluene	20.31	µg/L	1.0	20	0	102	78.4	117			
Chlorobenzene	20.14	µg/L	1.0	20	0	101	80.7	127			
1,1-Dichloroethene	23.38	µg/L	1.0	20	0	117	80.2	128			
Trichloroethene (TCE)	18.48	µg/L	1.0	20	0	92.4	77.4	115			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1001201

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8310: PAHs											
Sample ID: MB-21184		*MBLK*				**Batch ID: 21184**		**Analysis Date:**	1/24/2010 10:34:47 AM		
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	2.0								
2-Methylnaphthalene	ND	µg/L	2.0								
Acenaphthylene	ND	µg/L	2.5								
Acenaphthene	ND	µg/L	5.0								
Fluorene	ND	µg/L	0.80								
Phenanthrene	ND	µg/L	0.60								
Anthracene	ND	µg/L	0.60								
Fluoranthene	ND	µg/L	0.30								
F e	ND	µg/L	0.30								
Benz(a)anthracene	ND	µg/L	0.070								
Chrysene	ND	µg/L	0.20								
Benzo(b)fluoranthene	ND	µg/L	0.10								
Benzo(k)fluoranthene	ND	µg/L	0.070								
Benzo(a)pyrene	ND	µg/L	0.070								
Dibenz(a,h)anthracene	ND	µg/L	0.070								
Benzo(g,h,i)perylene	ND	µg/L	0.080								
I o(1,2,3-cd)pyrene	ND	µg/L	0.080								
ID: LCS-21184		*LCS*				**Batch ID: 21184**		**Analysis Date:**	1/24/2010 10:56:12 AM		
Naphthalene	62.34	µg/L	2.0	80	0	77.9	20.5	109			
1-Methylnaphthalene	69.51	µg/L	2.0	80.2	0	86.7	23.1	116			
2-Methylnaphthalene	62.69	µg/L	2.0	80	0	78.4	19.5	112			
Acenaphthylene	61.25	µg/L	2.5	80.2	0	76.4	27.5	119			
Acenaphthene	63.27	µg/L	5.0	80	0	79.1	31	117			
Fluorene	4.320	µg/L	0.80	8.02	0	53.9	17.1	109			
Phenanthrene	1.500	µg/L	0.60	4.02	0	37.3	25.5	112			
Anthracene	2.210	µg/L	0.60	4.02	0	55.0	25.8	119			
Fluoranthene	5.330	µg/L	0.30	8.02	0	66.5	27.2	122			
P e	4.550	µg/L	0.30	8.02	0	56.7	24.1	118			
Benz(a)anthracene	0.5200	µg/L	0.070	0.802	0	64.8	31.1	125			
Chrysene	2.760	µg/L	0.20	4.02	0	68.7	32.8	119			
Benzo(b)fluoranthene	0.5000	µg/L	0.10	1.002	0	49.9	24.4	117			
Benzo(k)fluoranthene	0.4000	µg/L	0.070	0.5	0	80.0	28.4	132			
Benzo(a)pyrene	0.4000	µg/L	0.070	0.502	0	79.7	32.4	119			
Dibenz(a,h)anthracene	0.8000	µg/L	0.070	1.002	0	79.8	33.9	120			
Benzo(g,h,i)perylene	0.7700	µg/L	0.080	1	0.04	73.0	35.2	113			
Ir (1,2,3-cd)pyrene	1.620	µg/L	0.080	2.004	0	80.8	33.6	115			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING SOUT** Date Received: **1/15/2010**

Work Order Number **1001201** Received by: **ARS**

Sample ID labels checked by: AS (Initials)

Checklist completed by: _____ 1/15/10 (Signature / Date)

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	**1.9°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining

Mailing Address: 111 CR 4990
Bloomfield NM 87413

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GBR

Project #:

Project Manager: Ashley Ager

Sampler: TROY URBAN
On Ice: ☒ YES ☐ NO
Sample Temperature: 1.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1001201	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
01/12/10	0700	GW	trip blank	2 voa	HCl	1										X						
01/12/10	1342	GW	GBR-52	3 voa	HCl	2										X						
01/12/10	1533	GW	GBR-51	3 voa	HCl	3										X						
01/12/10	1612	GW	SHS-8	3 voa	HCl	4										X						
01/13/10	0931	GW	GBR-50	3	HCl	5										X						
01/13/10	1012	GW	GBR-48	3	HCl	6										X						
01/13/10	1054	GW	GBR-32	3	HCl	7										X						
01/13/10	1122	GW	GBR-49	3	HCl	8										X						
01/13/10	1212	GW	GBR-17	3	HCl	9										X						
01/13/10	1252	GW	~~GBR-4~~ GRW-3	3	HCl	10										X						
01/13/10	1304	GW	GRW-6	3	HCl	11										X						
01/13/10	1348	GW	GBR-31	3	HCl	12										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
1/14/10	1455	Troy			
			9:45	1/15/10	

Remarks: please copy results to aager@ltenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This as notice of this possibility. Any contracted will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining

Mailing Address: 111CR 4990
Bloomfield NM 87413

Phone #:

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GBR

Project #:

Project Manager: Ashley Ager

Sampler: Troy Urban

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1001201	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	PAH				Air Bubbles (Y or N)
011310	1430	GW	GBR-24D	4	HCl/none	13										X		X				
011310	1508	GW	GBR-30	3 vod	HCl	14										X						
011310	1523	GW	Influent	3 vod	HCl	15										X						
011310	1552	GW	Effluent	3 vod	HCl	16										X						

Analysis Request

Date: 1/14/10 Time: 1455 Relinquished by: Troy Urban

Received by: 9:45 Date: 1/15/10 Time

Date: Time: Relinquished by:

Received by: Date Time

Remarks: Please copy results to aager@ltenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, April 13, 2010

Bill Robertson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: GBR

Order No.: 1004184

Dear Bill Robertson:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 4/9/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1004184	**Collection Date:**	4/8/2010 11:38:00 AM
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						**Analyst: DAM**
Benzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Toluene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Ethylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Naphthalene	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 12:45:42 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 12:45:42 AM
Acetone	ND	10		µg/L	1	4/13/2010 12:45:42 AM
Bromobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Bromoform	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Bromomethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
2-Butanone	ND	10		µg/L	1	4/13/2010 12:45:42 AM
Carbon disulfide	ND	10		µg/L	1	4/13/2010 12:45:42 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Chlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Chloroethane	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
Chloroform	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Chloromethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Dibromomethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1004184	**Collection Date:**	4/8/2010 11:38:00 AM
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
2-Hexanone	ND	10		µg/L	1	4/13/2010 12:45:42 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2010 12:45:42 AM
Methylene Chloride	ND	3.0		µg/L	1	4/13/2010 12:45:42 AM
n-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Styrene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2010 12:45:42 AM
Vinyl chloride	ND	1.0		µg/L	1	4/13/2010 12:45:42 AM
Xylenes, Total	ND	1.5		µg/L	1	4/13/2010 12:45:42 AM
Surr: 1,2-Dichloroethane-d4	78.2	54.6-141		%REC	1	4/13/2010 12:45:42 AM
Surr: 4-Bromofluorobenzene	106	60.1-133		%REC	1	4/13/2010 12:45:42 AM
Surr: Dibromofluoromethane	109	78.5-130		%REC	1	4/13/2010 12:45:42 AM
Surr: Toluene-d8	101	79.5-126		%REC	1	4/13/2010 12:45:42 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1004184	**Collection Date:**	4/8/2010 12:00:00 PM
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
Benzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Toluene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Ethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Naphthalene	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 1:13:46 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 1:13:46 AM
Acetone	ND	10		µg/L	1	4/13/2010 1:13:46 AM
Bromobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Bromoform	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Bromomethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
2-Butanone	ND	10		µg/L	1	4/13/2010 1:13:46 AM
Carbon disulfide	ND	10		µg/L	1	4/13/2010 1:13:46 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Chlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Chloroethane	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
Chloroform	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Chloromethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Dibromomethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1004184	**Collection Date:**	4/8/2010 12:00:00 PM
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
2-Hexanone	ND	10		µg/L	1	4/13/2010 1:13:46 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2010 1:13:46 AM
Methylene Chloride	ND	3.0		µg/L	1	4/13/2010 1:13:46 AM
n-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Styrene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2010 1:13:46 AM
Vinyl chloride	ND	1.0		µg/L	1	4/13/2010 1:13:46 AM
Xylenes, Total	ND	1.5		µg/L	1	4/13/2010 1:13:46 AM
Surr: 1,2-Dichloroethane-d4	89.6	54.6-141		%REC	1	4/13/2010 1:13:46 AM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	4/13/2010 1:13:46 AM
Surr: Dibromofluoromethane	115	78.5-130		%REC	1	4/13/2010 1:13:46 AM
Surr: Toluene-d8	104	79.5-126		%REC	1	4/13/2010 1:13:46 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	TRIP BLANK
Lab Order:	1004184	**Collection Date:**	
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: DAM
Benzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Toluene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Ethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Naphthalene	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 1:41:50 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	4/13/2010 1:41:50 AM
Acetone	ND	10		µg/L	1	4/13/2010 1:41:50 AM
Bromobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Bromodichloromethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Bromoform	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Bromomethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
2-Butanone	ND	10		µg/L	1	4/13/2010 1:41:50 AM
Carbon disulfide	ND	10		µg/L	1	4/13/2010 1:41:50 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Chlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Chloroethane	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
Chloroform	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Chloromethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
2-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
4-Chlorotoluene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
cis-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
Dibromochloromethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Dibromomethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Apr-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	TRIP BLANK
Lab Order:	1004184	**Collection Date:**	
Project:	GBR	**Date Received:**	4/9/2010
Lab ID:	1004184-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **DAM**
2-Hexanone	ND	10		µg/L	1	4/13/2010 1:41:50 AM
Isopropylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/13/2010 1:41:50 AM
Methylene Chloride	ND	3.0		µg/L	1	4/13/2010 1:41:50 AM
n-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
n-Propylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
sec-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Styrene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
tert-Butylbenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
trans-1,2-DCE	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	4/13/2010 1:41:50 AM
Vinyl chloride	ND	1.0		µg/L	1	4/13/2010 1:41:50 AM
Xylenes, Total	ND	1.5		µg/L	1	4/13/2010 1:41:50 AM
Surr: 1,2-Dichloroethane-d4	90.3	54.6-141		%REC	1	4/13/2010 1:41:50 AM
Surr: 4-Bromofluorobenzene	95.7	60.1-133		%REC	1	4/13/2010 1:41:50 AM
Surr: Dibromofluoromethane	111	78.5-130		%REC	1	4/13/2010 1:41:50 AM
Surr: Toluene-d8	102	79.5-126		%REC	1	4/13/2010 1:41:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1004184

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b1		*MBLK*				Batch ID: **R38161**		Analysis Date:	**4/12/2010 8:42:54 AM**		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Cl t: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1004184

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
e ID: b1		*MBLK*				Batch ID: **R38161**		Analysis Date:	**4/12/2010 8:42:54 AM**		
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
S e	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
ID: 100ng lcs		*LCS*				Batch ID: **R38161**		Analysis Date:	**4/12/2010 11:09:19 AM**		
ene	19.10	µg/L	1.0	20	0	95.5	82.4	116			
Toluene	20.21	µg/L	1.0	20	0	101	89.5	123			
Chlorobenzene	18.99	µg/L	1.0	20	0	94.9	87.8	120			
1,1-Dichloroethene	20.22	µg/L	1.0	20	0	101	90.3	138			
Trichloroethene (TCE)	20.11	µg/L	1.0	20	0	101	64	129			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING SOUT** Date Received: **4/9/2010**

Work Order Number **1004184** Received by: **TLS**

Checklist completed by: _____ (Signature) 4/9/10 (Date) Sample ID labels checked by: _____ (Initials)

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**4.6°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Bill Robertson

Mailing Address: 111 CR 4990
Bloomfield, NM

Phone #: 505-632-4077

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: GBR

Project #:

Project Manager: Ashley Ager

Sampler: Ashley Ager

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1005134	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4-8-10	1138	GW	influent	40ml/3	$HgCl_2$	1										✓		
4-8-10	1200	GW	Effluent	40ml/3	$HgCl_2$	2										✓		
4-8-10	0700	water	TRIP BLANK	40ml/2	$HgCl_2$	3										✓		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-8-10	20:30	Ashley L Ager		4/9/10	9:45
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, July 22, 2010

Bill Robertson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: GBR

Order No.: 1007591

Dear Bill Robertson:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 7/16/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

For Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1007591	**Collection Date:**	7/15/2010 1:09:00 PM
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Toluene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Ethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Naphthalene	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 1:14:25 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 1:14:25 PM
Acetone	ND	10		µg/L	1	7/17/2010 1:14:25 PM
Bromobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Bromoform	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Bromomethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
2-Butanone	ND	10		µg/L	1	7/17/2010 1:14:25 PM
Carbon disulfide	ND	10		µg/L	1	7/17/2010 1:14:25 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Chlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Chloroethane	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
Chloroform	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Chloromethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Dibromomethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Influent
Lab Order:	1007591	**Collection Date:**	7/15/2010 1:09:00 PM
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	7/17/2010 1:14:25 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2010 1:14:25 PM
Methylene Chloride	ND	3.0		µg/L	1	7/17/2010 1:14:25 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Styrene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2010 1:14:25 PM
Vinyl chloride	ND	1.0		µg/L	1	7/17/2010 1:14:25 PM
Xylenes, Total	ND	1.5		µg/L	1	7/17/2010 1:14:25 PM
Surr: 1,2-Dichloroethane-d4	101	54.6-141		%REC	1	7/17/2010 1:14:25 PM
Surr: 4-Bromofluorobenzene	120	60.1-133		%REC	1	7/17/2010 1:14:25 PM
Surr: Dibromofluoromethane	101	78.5-130		%REC	1	7/17/2010 1:14:25 PM
Surr: Toluene-d8	105	79.5-126		%REC	1	7/17/2010 1:14:25 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1007591	**Collection Date:**	7/15/2010 1:27:00 PM
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Toluene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Ethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Naphthalene	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 1:42:06 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 1:42:06 PM
Acetone	ND	10		µg/L	1	7/17/2010 1:42:06 PM
Bromobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Bromoform	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Bromomethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
2-Butanone	ND	10		µg/L	1	7/17/2010 1:42:06 PM
Carbon disulfide	ND	10		µg/L	1	7/17/2010 1:42:06 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Chlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Chloroethane	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
Chloroform	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Chloromethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Dibromomethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Effluent
Lab Order:	1007591	**Collection Date:**	7/15/2010 1:27:00 PM
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	7/17/2010 1:42:06 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2010 1:42:06 PM
Methylene Chloride	ND	3.0		µg/L	1	7/17/2010 1:42:06 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Styrene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2010 1:42:06 PM
Vinyl chloride	ND	1.0		µg/L	1	7/17/2010 1:42:06 PM
Xylenes, Total	ND	1.5		µg/L	1	7/17/2010 1:42:06 PM
Surr: 1,2-Dichloroethane-d4	104	54.6-141		%REC	1	7/17/2010 1:42:06 PM
Surr: 4-Bromofluorobenzene	118	60.1-133		%REC	1	7/17/2010 1:42:06 PM
Surr: Dibromofluoromethane	104	78.5-130		%REC	1	7/17/2010 1:42:06 PM
Surr: Toluene-d8	105	79.5-126		%REC	1	7/17/2010 1:42:06 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	TRIP BLANK
Lab Order:	1007591	**Collection Date:**	
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Toluene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Ethylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Naphthalene	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 2:09:47 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	7/17/2010 2:09:47 PM
Acetone	ND	10		µg/L	1	7/17/2010 2:09:47 PM
Bromobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Bromodichloromethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Bromoform	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Bromomethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
2-Butanone	ND	10		µg/L	1	7/17/2010 2:09:47 PM
Carbon disulfide	ND	10		µg/L	1	7/17/2010 2:09:47 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Chlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Chloroethane	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
Chloroform	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Chloromethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
2-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
4-Chlorotoluene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
cis-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
Dibromochloromethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Dibromomethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Jul-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	TRIP BLANK
Lab Order:	1007591	**Collection Date:**	
Project:	GBR	**Date Received:**	7/16/2010
Lab ID:	1007591-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
2-Hexanone	ND	10		µg/L	1	7/17/2010 2:09:47 PM
Isopropylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	7/17/2010 2:09:47 PM
Methylene Chloride	ND	3.0		µg/L	1	7/17/2010 2:09:47 PM
n-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
n-Propylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
sec-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Styrene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
tert-Butylbenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
trans-1,2-DCE	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/17/2010 2:09:47 PM
Vinyl chloride	ND	1.0		µg/L	1	7/17/2010 2:09:47 PM
Xylenes, Total	ND	1.5		µg/L	1	7/17/2010 2:09:47 PM
Surr: 1,2-Dichloroethane-d4	106	54.6-141		%REC	1	7/17/2010 2:09:47 PM
Surr: 4-Bromofluorobenzene	115	60.1-133		%REC	1	7/17/2010 2:09:47 PM
Surr: Dibromofluoromethane	106	78.5-130		%REC	1	7/17/2010 2:09:47 PM
Surr: Toluene-d8	104	79.5-126		%REC	1	7/17/2010 2:09:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1007591

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
ple ID: 5ml rb		*MBLK*				**Batch ID: R39884**		**Analysis Date: 7/16/2010 8:44:26 AM**			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1007591

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
nple ID: 5ml rb		*MBLK*				**Batch ID: R39884**			**Analysis Date:**		**7/16/2010 8:44:26 AM**
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
sec-Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
ple ID: b8		*MBLK*				**Batch ID: R39884**			**Analysis Date:**		**7/16/2010 9:39:36 PM**
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
yl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1007591

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
od: EPA Method 8260B: VOLATILES											
Sample ID: b8		*MBLK*					Batch ID: R39884		Analysis Date: 7/16/2010 9:39:36 PM		
C omethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
trans-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: b13		*MBLK*					Batch ID: R39884		Analysis Date: 7/17/2010 10:01:25 AM		

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1007591

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b13		*MBLK*				**Batch ID: R39884**		**Analysis Date: 7/17/2010 10:01:25 AM**			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	1.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	1.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1007591

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: b13		*MBLK*				Batch ID:	**R39884**	Analysis Date:	7/17/2010 10:01:25 AM		
4-Methyl-2-pentanone	ND	µg/L	10								
ylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
tert-Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
t 1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R39884**	Analysis Date:	7/16/2010 10:07:10 AM		
Benzene	20.22	µg/L	1.0	20	0	101	82.4	116			
Toluene	23.09	µg/L	1.0	20	0	115	89.5	123			
Chlorobenzene	21.99	µg/L	1.0	20	0	110	87.8	120			
1,1-Dichloroethene	26.79	µg/L	1.0	20	0	134	90.3	138			
Trichloroethene (TCE)	18.19	µg/L	1.0	20	0	90.9	64	129			
Sample ID: 100ng lcs_b		*LCS*				Batch ID:	**R39884**	Analysis Date:	7/16/2010 10:34:37 PM		
Benzene	19.49	µg/L	1.0	20	0	97.4	82.4	116			
Toluene	21.68	µg/L	1.0	20	0	108	89.5	123			
Chlorobenzene	20.53	µg/L	1.0	20	0	103	87.8	120			
1,1-Dichloroethene	25.31	µg/L	1.0	20	0	127	90.3	138			
Trichloroethene (TCE)	17.80	µg/L	1.0	20	0	89.0	64	129			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING SOUT** Date Received: **7/16/2010**

Work Order Number **1007591** Received by: **ARS**

Checklist completed by: Signature 7/16/10 Date Sample ID labels checked by: JB Initials

Matrix: Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☑	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**2.1°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Bill Robertson
Address: 111 CR 4990
Bloomfield NM
Phone #: 505-632-4077
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush
Project Name: GBR
Project #:
Project Manager: Ashley Ager
Sampler: Troy URBAN
On Ice: ☒ Yes ☐ No
Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1007591	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
071510	1309	Influent	40ml/3	$HgCl_2$	1										✓						
	1327	Effluent	40ml/3	$HgCl_2$	2										✓						
			40ml/2	$HgCl_2$	3										✓						

Date:	Time:	Relinquished by:	Received by:	
7/15/10	1430			
Date:	Time:	Relinquished by:	Received by:	8:45 7/16/10

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, October 13, 2010

Bill Robertson
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (505) 632-4161
FAX (505) 632-3911

RE: GBR

Order No.: 1010364

Dear Bill Robertson:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 10/7/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR Effluent
Lab Order:	1010364	**Collection Date:**	10/6/2010 11:52:00 AM
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Toluene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Ethylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Naphthalene	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 6:41:17 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 6:41:17 PM
Acetone	ND	10		µg/L	1	10/11/2010 6:41:17 PM
Bromobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Bromoform	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Bromomethane	ND	3.0		µg/L	1	10/11/2010 6:41:17 PM
2-Butanone	ND	10		µg/L	1	10/11/2010 6:41:17 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2010 6:41:17 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Chlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Chloroethane	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
Chloroform	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Chloromethane	ND	3.0		µg/L	1	10/11/2010 6:41:17 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Dibromomethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR Effluent
Lab Order:	1010364	**Collection Date:**	10/6/2010 11:52:00 AM
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
2-Hexanone	ND	10		µg/L	1	10/11/2010 6:41:17 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2010 6:41:17 PM
Methylene Chloride	ND	3.0		µg/L	1	10/11/2010 6:41:17 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Styrene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/11/2010 6:41:17 PM
Vinyl chloride	ND	1.0		µg/L	1	10/11/2010 6:41:17 PM
Xylenes, Total	ND	1.5		µg/L	1	10/11/2010 6:41:17 PM
Surr: 1,2-Dichloroethane-d4	84.2	54.6-141		%REC	1	10/11/2010 6:41:17 PM
Surr: 4-Bromofluorobenzene	103	60.1-133		%REC	1	10/11/2010 6:41:17 PM
Surr: Dibromofluoromethane	106	78.5-130		%REC	1	10/11/2010 6:41:17 PM
Surr: Toluene-d8	98.1	79.5-126		%REC	1	10/11/2010 6:41:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR Influent
Lab Order:	1010364	**Collection Date:**	10/6/2010 12:18:00 PM
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Toluene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Ethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Naphthalene	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 7:09:39 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 7:09:39 PM
Acetone	ND	10		µg/L	1	10/11/2010 7:09:39 PM
Bromobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Bromoform	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Bromomethane	ND	3.0		µg/L	1	10/11/2010 7:09:39 PM
2-Butanone	ND	10		µg/L	1	10/11/2010 7:09:39 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2010 7:09:39 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Chlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Chloroethane	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
Chloroform	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Chloromethane	ND	3.0		µg/L	1	10/11/2010 7:09:39 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Dibromomethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	GBR Influent
Lab Order:	1010364	**Collection Date:**	10/6/2010 12:18:00 PM
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **MMS**
2-Hexanone	ND	10		µg/L	1	10/11/2010 7:09:39 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2010 7:09:39 PM
Methylene Chloride	ND	3.0		µg/L	1	10/11/2010 7:09:39 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Styrene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/11/2010 7:09:39 PM
Vinyl chloride	ND	1.0		µg/L	1	10/11/2010 7:09:39 PM
Xylenes, Total	ND	1.5		µg/L	1	10/11/2010 7:09:39 PM
Surr: 1,2-Dichloroethane-d4	85.5	54.6-141		%REC	1	10/11/2010 7:09:39 PM
Surr: 4-Bromofluorobenzene	98.3	60.1-133		%REC	1	10/11/2010 7:09:39 PM
Surr: Dibromofluoromethane	107	78.6-130		%REC	1	10/11/2010 7:09:39 PM
Surr: Toluene-d8	97.7	79.5-126		%REC	1	10/11/2010 7:09:39 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	1010364	**Collection Date:**	
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						**Analyst: MMS**
Benzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Toluene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Ethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Naphthalene	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 7:38:02 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	10/11/2010 7:38:02 PM
Acetone	ND	10		µg/L	1	10/11/2010 7:38:02 PM
Bromobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Bromodichloromethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Bromoform	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Bromomethane	ND	3.0		µg/L	1	10/11/2010 7:38:02 PM
2-Butanone	ND	10		µg/L	1	10/11/2010 7:38:02 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2010 7:38:02 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Chlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Chloroethane	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
Chloroform	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Chloromethane	ND	3.0		µg/L	1	10/11/2010 7:38:02 PM
2-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
4-Chlorotoluene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
cis-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
Dibromochloromethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Dibromomethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *13-Oct-10*

CLIENT:	Western Refining Southwest, Inc.	**Client Sample ID:**	Trip Blank
Lab Order:	1010364	**Collection Date:**	
Project:	GBR	**Date Received:**	10/7/2010
Lab ID:	1010364-03	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						**Analyst: MMS**
2-Hexanone	ND	10		µg/L	1	10/11/2010 7:38:02 PM
Isopropylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2010 7:38:02 PM
Methylene Chloride	ND	3.0		µg/L	1	10/11/2010 7:38:02 PM
n-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
n-Propylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
sec-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Styrene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
tert-Butylbenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
trans-1,2-DCE	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/11/2010 7:38:02 PM
Vinyl chloride	ND	1.0		µg/L	1	10/11/2010 7:38:02 PM
Xylenes, Total	ND	1.5		µg/L	1	10/11/2010 7:38:02 PM
Surr: 1,2-Dichloroethane-d4	101	54.6-141		%REC	1	10/11/2010 7:38:02 PM
Surr: 4-Bromofluorobenzene	94.2	60.1-133		%REC	1	10/11/2010 7:38:02 PM
Surr: Dibromofluoromethane	121	78.5-130		%REC	1	10/11/2010 7:38:02 PM
Surr: Toluene-d8	98.6	79.5-126		%REC	1	10/11/2010 7:38:02 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1010364

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
le ID: 5ml rb		*MBLK*				**Batch ID: R41488**		**Analysis Date: 10/11/2010 9:17:47 AM**			
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	ND	µg/L	1.0								
ıthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								
2,2-Dichloropropane	ND	µg/L	2.0								
1,1-Dichloropropene	ND	µg/L	1.0								
Hexachlorobutadiene	ND	µg/L	1.0								
2-Hexanone	ND	µg/L	10								
Isopropylbenzene	ND	µg/L	1.0								
4-Isopropyltoluene	ND	µg/L	1.0								

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Inc.
Project: GBR **Work Order:** 1010364

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES											
Sample ID: 5ml rb		*MBLK*				**Batch ID: R41488**		**Analysis Date: 10/11/2010 9:17:47 AM**			
4-Methyl-2-pentanone	ND	µg/L	10								
Methylene Chloride	ND	µg/L	3.0								
n-Butylbenzene	ND	µg/L	1.0								
n-Propylbenzene	ND	µg/L	1.0								
·Butylbenzene	ND	µg/L	1.0								
Styrene	ND	µg/L	1.0								
·Butylbenzene	ND	µg/L	1.0								
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0								
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0								
Tetrachloroethene (PCE)	ND	µg/L	1.0								
t s-1,2-DCE	ND	µg/L	1.0								
trans-1,3-Dichloropropene	ND	µg/L	1.0								
1,2,3-Trichlorobenzene	ND	µg/L	1.0								
1,2,4-Trichlorobenzene	ND	µg/L	1.0								
1,1,1-Trichloroethane	ND	µg/L	1.0								
1,1,2-Trichloroethane	ND	µg/L	1.0								
Trichloroethene (TCE)	ND	µg/L	1.0								
Trichlorofluoromethane	ND	µg/L	1.0								
1,2,3-Trichloropropane	ND	µg/L	2.0								
Vinyl chloride	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	1.5								
S e ID: 100ng lcs		*LCS*				**Batch ID: R41488**		**Analysis Date: 10/11/2010 10:29:54 AM**			
Benzene	20.15	µg/L	1.0	20	0	101	82.4	116			
Toluene	21.22	µg/L	1.0	20	0	106	89.5	123			
Chlorobenzene	20.97	µg/L	1.0	20	0	105	87.8	120			
1,1-Dichloroethene	21.06	µg/L	1.0	20	0	105	90.3	138			
Trichloroethene (TCE)	18.19	µg/L	1.0	20	0	91.0	64	129			
Sample ID: 100ng lcs-2		*LCSD*				**Batch ID: R41488**		**Analysis Date: 10/11/2010 5:44:43 PM**			
Benzene	17.86	µg/L	1.0	20	0	89.3	82.4	116	12.0	11	R
Toluene	19.65	µg/L	1.0	20	0	98.2	89.5	123	7.70	12.2	
Chlorobenzene	20.46	µg/L	1.0	20	0	102	87.8	120	2.43	12	
1,1-Dichloroethene	18.17	µg/L	1.0	20	0	90.9	90.3	138	14.7	19.3	
Trichloroethene (TCE)	16.71	µg/L	1.0	20	0	83.6	64	129	8.47	15.5	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING SOUT | Date Received: 10/7/2010

Work Order Number 1010364 | Received by: MLW

Checklist completed by: Michelle Garcia 10/7/10 (Signature / Date) | Sample ID labels checked by: AT (initials)

Matrix: | Carrier name Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
nple containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐		Number of preserved bottles checked for pH:	
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☑	No ☐		
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐		
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐	*<2 >12 unless noted below.*	
Container/Temp Blank temperature?	1.5°	*<6° C Acceptable* If given sufficient time to cool.			

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: WESTERN REFINING MAIL TRIP BLANK

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Bill Robertson
Mailing Address: 111 CR 4990

Phone #: 505-632-4077
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: GBR
Project #:
Project Manager: Ashley Ager
Sampler: Troy Urban
On Ice: ☐ Yes ☐ No
Sample Temperature: 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1003151
10/6/10	1152	GW	GBR Effluent	40ml/3	HCl	-1
10/6/10	1030	GW	trip blank	40ml/2	HCl	-3
10/6/10	1218	GW	GBR Influent	40ml/3	HCl	-2

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)						Air Bubbles (Y or N)
									X							
									X							
									X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/6/10	1325		Melissa Worters	10/7/10	200
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: please email results to aager@ltenv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.