

GW – 003

2002 AGWMR

04 / 22 / 2003

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APR 25 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

April 22, 2003

Mr. William C. Olson, Hydrogeologist
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

**Subject: 2002 Annual Summary of Investigation and Remediation
Eunice #1 (South) Gas Plant, Lea County, New Mexico**

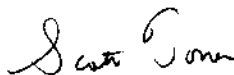
Dear Mr. Olson:

Enclosed is the subject report for work completed at the Eunice South Gas Plant (Plant) by Highlander Environmental Corp. (Highlander) in 2002 to delineate, monitor and remediate impacts to groundwater at the Plant. Based on the work completed to date, ChevronTexaco and Highlander are proceeding with plans for remediating the following areas:

- Hydrocarbon impacts beneath the west/central part of the Plant – Working on design and installation of a Dual Phase Extraction system that will recover phase separated hydrocarbons (PSH) from groundwater, and remove volatile organic compounds (VOC) and some semi-volatile organic compounds (SVOC) from the vadose zone and capillary fringe.
- Chloride impacts to groundwater beneath the east part of the Plant – Proceeding with facility modifications and working on water disposal agreement with Dynegy to pump and dispose of chloride impacted groundwater.
- Hydrocarbon impacts to groundwater beneath east part of the Plant – Completing modifications to the existing Ferret system to continue removing PSH.

If you have any questions concerning this report or the on-going work, please call me at (432) 687-7318. Or you can contact Gary Miller or Tim Reed with Highlander at (432) 682-4559.

Sincerely,



SLT/

Enclosure

Cc: Mr. Chris Williams, NMOCD (with copy of report)
Mr. Gary Miller, Highlander (without copy of report)
Mr. Tim Reed, Highlander (without copy of report)



Highlander Environmental Corp.

Midland, Texas

2002 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION ChevronTexaco Exploration & Production EUNICE #1 (SOUTH) GAS PLANT LEA COUNTY, NEW MEXICO

1.0 INTRODUCTION

Highlander Environmental Corp. (Highlander) has been retained by ChevronTexaco Exploration and Production Company (ChevronTexaco) as successor to Texaco Exploration and Production, Inc. (Texaco) to continue to monitor, delineate and remediate subsurface impacts to groundwater at the former Texaco Eunice #1 (South) Gas Plant (Site), located approximately 4.5 miles south of Eunice, New Mexico. The Site is situated in the northwest quarter (NW/4) of the southwest quarter (SW/4), Section 27, Township 22 South, Range 37 East, Lea County, New Mexico. Figure 1 presents a site location and topographic map.

The current activities arose from the "Subsurface Abatement Work Plan", approved by the NMOCD on March 4, 1998, for the Site. The Plan was requested by the State of New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division (NMOCD) on September 10, 1997, following its review of the report titled, "A Final Investigation Report, Texaco Exploration and Production, Inc., Eunice # 1 (South) Gas Plant, July 1997". The report presented the results of subsurface investigation activities conducted at the Site, as required by the NMOCD in accordance with renewal of the facility's groundwater discharge permit.

1.1 Previous Investigation

Highlander was originally retained by Texaco to conduct subsurface investigations in conjunction with the renewal of the Site's Groundwater Discharge Plan. Previous investigations consisted of collection and analysis of soil samples from hand auger and rotary-drilled borings, installation of monitor wells, collection and analysis of groundwater samples, phase-separated hydrocarbon (free product) assessment, hydraulic conductivity (slug) tests and pumping tests. The results of these investigations have been documented in reports titled, "Subsurface Environmental Assessment, Texaco Exploration and Production, Inc, Eunice #1 (South) Gas Plant, Lea County, New Mexico", September 1996, and "Final Investigation Report, Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant, Lea County, New Mexico, July 1997."

In the course of this investigation, several actions relating to operations of the Site have occurred that have impacted activities, primarily, the transfer of operation of the Site to Dynegy Midstream Services, L.P. (Dynegy), effective July 1, 1998. Conditions of the transfer designated Texaco as retaining responsibility for the subsurface investigation and remediation of the existing groundwater contamination. The gas plant is currently out of operation, although Dynegy continues to operate two compressors in the northwest portion of the Site.

1.2 Scope of Work

The work performed and described in this report includes the following:

1. Evaluation of new (2001) shallow monitor wells (MW-24 through MW-28) for further delineation of phase-separated hydrocarbon (PSH) and dissolved phase hydrocarbon impact to groundwater in the western half of the Site; and eight (8) new (2002) deep monitor wells (MWD-7 through MWD-14) to evaluate chloride impact to groundwater on the east side of the plant.
2. Evaluation of new (2001) recovery wells (RW-2 through RW-5) inside the plant area for hydrocarbon recovery and remediation.
3. Results of the semi-annual sampling of monitor wells (MW), and Texaco monitor wells (TMW).
4. Secure a disposal agreement with Dynegy Midstream Services for the on-site disposal of produced chloride-impacted groundwater from extraction wells placed in the east end of the plant Site.
5. Continued operation and maintenance (O&M) of Ferret Separation Pumps (PSH recovery system) in MW-5 and MW-20. The product-only (PSH) pumps were set across the PSH lens to recover the product. Texaco designed a fluid handling facility located west of the recovery wells.
6. Perform a pilot study to evaluate the effectiveness of vapor extraction and projected radius of influence. Test data to be used to design remedial systems, consisting of dual-phase extraction for vapor extraction and Phase-Separated Hydrocarbon (PSH) extraction.

Each of these topics described above will be addressed individually in this report and will detail activities, sampling and analytical results.



2.0 SITE SETTING

2.1 Site Background

The Site was originally constructed by Skelly Oil Company in the 1940's, and subsequently acquired by Texaco, modified and operated as a turbo expander type natural gas processing plant for extraction of Natural Gas Liquids (NGL). Operation of the site was recently transferred to Dynegy, effective July 1, 1998, and the plant has been essentially shut down, with the exception of some processing and compression equipment. Figure 1 presents a Site location and topographic map. Figure 2 presents a drawing for the site.

2.2 Topography

The topography of the Site slopes gently from west to east. The elevation of the Site ranges from about 3335 feet above mean sea level (AMSL) along the west side of the Site, to about 3330 feet AMSL along the east side of the Site. Storm and surface water runoff generally follows the surface topography and flows to the east to Monument Draw, located approximately 2.5 miles east of the Site. There are no public or private surface water reservoirs within two miles of the Site.

2.3 Soils

The Site is underlain by soils of the Simona Series. The Simona Series soil is represented by the Simona fine sandy loam, 0 to 3 percent slopes (SE). The Simona fine sandy loam has a surface layer consisting of grayish-brown fine sandy loam, approximately 8 inches thick. The surface layer is underlain by a subsoil consisting of pale brown fine sandy loam, approximately 8 inches thick. The subsoil is underlain by a dense layer of white indurated caliche. The caliche is typically about 16 inches thick and strongly cemented. The Simona fine sandy loam soil has moderately rapid permeability and a low corrosivity potential to uncoated steel. Simona soil is typically used for recreational, rangeland and habitat purposes.

2.4 Geology

The Site is underlain by windblown sand of Recent-age. The windblown sand deposits range in thickness from a few feet to as much as 40 feet. The windblown sand is underlain by the Pliocene-age Ogallala Formation. The Ogallala Formation consists of quartz sand, which is poorly to well cemented with calcium carbonate. The Ogallala Formation contains minor amounts of clay and is capped most everywhere by a dense layer of caliche. The Ogallala Formation ranges in thickness up to approximately 100 feet.

The Ogallala Formation is underlain by the Triassic-age Chinle Formation. The Chinle Formation consists of interbedded layers of greenish colored mudstone and sandstone. The thickness of the Chinle Formation ranges up to about 300 feet.



2.5 Groundwater

Groundwater occurs under unconfined conditions in the Ogallala Formation. The Ogallala Formation is regionally known as the High Plains Aquifer. Recharge to the Ogallala Formation occurs through infiltration of rainfall and snowmelt. Discharge occurs principally through pumping from wells.

Based upon the recorded depth-to-groundwater measurements, groundwater flow is consistent with the regional flow direction for groundwater in the High Plains aquifer and is primarily to the south-southeast.

3.0 SEMI-ANNUAL MONITORING AND REPORTING

3.1 Introduction

In accordance with the work plan entitled "Proposed Groundwater Treatment and Disposal Plan", dated September 29, 1999, all monitor wells, and water supply wells are monitored semi-annually. All of the existing monitor wells, water supply wells and recovery wells were examined for PSH, and all monitor wells were sampled on April 15, 2002 and September 13, 2002. The groundwater potentiometric surface maps for the two monitoring events are included as Figures 3A and 3B.

3.2 Phase Separated Hydrocarbon (PSH) Assessment and Recovery

Prior to sampling, all monitor wells, recovery wells and water supply wells were gauged for depth to water measurements and checked for the presence of PSH, using a Heron Oil-Water Interface probe. Currently, there are two areas where PSH is known to be present on groundwater beneath the Site. One area is on the west side of the Plant, and is associated with process equipment from former Plant operations. The other area is on the east side of the Plant, and is in close proximity to a pipeline running through this area. The PSH thickness for each well measured is shown in Table 1.

Monitor wells on the west side of the plant which exhibited PSH during the April 2002 monitoring event were MW-1, MW-2, TMW-2, TMW-5, TMW-6, RW-1, RW-3 and RW-5. Wells in this area which exhibited PSH during the September 2002 monitoring event were MW-1, MW-2, TMW-2, TMW-5, MWD-5, RW-1, RW-3, RW-4 and RW-5.

Although PSH has historically been observed on the groundwater on the east side of the Plant in the vicinity of MW-5. MW-5 and MW-20 were not measured during the April and September 2002 monitoring events because there were pumps in these wells. These were Ferret Separation Pumps that were part of a PSH recovery system that were installed in MW-5 and MW-20. These pumps operated sporadically because of equipment problems. They are scheduled to be maintained by Highlander in 2003. To date, the two Ferret pumps, both of which were converted to low-flow fluid recovery, have recovered approximately 10 to 15 barrels of fluid.



3.3 Groundwater Sampling and Analysis

Prior to groundwater sampling, the monitor wells were purged to remove a minimum of three (3) casing volumes of groundwater or until the groundwater removed from the wells was as visually free of suspended sediment as possible. Purging was accomplished using a submersible pump set typically five(5) to ten (10) feet off the bottom of the monitor well. The pump was thoroughly decontaminated between sampling events using a laboratory grade detergent, followed by rinsing with deionized water. The purged groundwater was placed into the South Plant's wastewater disposal system.

Following well purging, groundwater samples were carefully collected from the discharge of the pump for chloride, Total Dissolved Solids (TDS), and dissolved metals evaluation. Once purging and pump sampling were completed, the wells were allowed to recover for a period of time and were sampled for BTEX using dedicated disposable PVC well bailers and monofilament line. The bailed groundwater samples were carefully poured from the bailers into appropriate sample containers, provided by the analytical laboratory. The samples were shipped under chain-of-custody control and analyzed for the prescribed parameters within specified holding times. The groundwater samples were analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) using EPA methods 8021B, dissolved metals by EPA methods 3015, 6010, 7470, chloride by EPA method 9252, and TDS by EPA method 160.1. The laboratory reports are included in Appendix B.

The results of the sampling are shown in Table 1. As in previous reports, BTEX levels were the highest in the west-central portion of the plant site in the vicinity of MW-10, MW-11 and MW-12. Elevated BTEX levels were also observed in the southwest corner of the Site at MW-9, possibly due to an off-site source. Isopleth maps for benzene are included as Figures 4A and 4B.

Chloride levels were mainly elevated in the northeast portion of the site, in the vicinity of the closed surface impoundments. The placement of the new deep monitor wells has shown that there may be some stratification between chloride in the upper and lower portions of the aquifer. Isopleth maps for shallow and deep chloride are included as Figures 5A, 5B, 5C and 5D.

Arsenic was found at or above the WQCC drinking water standard of 0.1 mg/l in monitor wells, TMW-6, MW-11, MW-12, MW-27 and MW-28, with the highest reported level of 4.36 mg/l in MW-12 during the April monitoring event. Barium was reported above the WQCC drinking water standard of 1.0 mg/l in monitor wells TMW-3, TMW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-19, MW-24, MW-26, MWD-6 and RW-1, with the highest concentration being 14.5 mg/l in monitor well MW-9 during the September monitoring event.

Cadmium, which had been previously detected in MW-9 during the March, 2001 sampling event at 0.025 mg/l, was absent from sampling in 2002. Chromium was reported above the WQCC standard of 0.05 mg/l in MW-16 at 0.172 mg/l during the



April monitoring event and 0.185 mg/l during the September monitoring event. Chromium levels below the WQCC standard were detected in MWD-8. In 2002, no mercury levels above the WQCC standard for mercury (0.002 mg/l) were detected.

4.0 HYDROCARBON REMEDIATION

4.1 Soil and Groundwater Remediation on West Side of Plant

4.1.1 Soil Vapor Extraction (SVE) Technology

SVE is a technology, which employs a vacuum pump to induce a vacuum on an extraction well. This technology causes hydrocarbons to volatilize in the vadose zone and capillary fringe soil. It is a relatively simple process that physically separates contaminants from soil. As the name suggests, SVE extracts contaminants from the soil in vapor form. Therefore, SVE systems are designed to remove contaminants that have a tendency to volatilize or evaporate easily. SVE removes volatile organic compounds (VOCs) and some semi-volatile organic compounds (SVOCs) from soil beneath the ground surface.

4.1.2 Vapor Extraction Pilot Study

A Vapor Extraction pilot study was performed in July 2002, by Alliance Maintenance & Services, Inc. (Alliance) using a portable SVE system. The results of the pilot study indicated that a vapor extraction program would be very effective for removing hydrocarbons in the unsaturated zone. The zone of influence is estimated at a radius of approximately 44'. A copy of the Alliance/MFG report of the results of the pilot study are included in Appendix A.

4.1.3 Dual Phase Extraction

Several monitor wells and recovery wells have PSH. Obviously, removal of PSH by the use of SVE technology is possible, but does increase remediation time. Removal of PSH in addition to the removal of vapors (Called Dual Phase Vapor Extraction) would greatly decrease remediation time. At this time, existing monitor wells in the contaminant plume (i.e. MW-11 and MW-12) and recovery wells could be utilized for initialization of the Dual Phase Vapor Extraction. Additional extraction points could then be placed in groups to more effectively modify the system in specific remediation areas. This allows for proper extraction point placement, effective monitoring and efficient use of available equipment. The system that is being presented is highly expandable and is designed with this purpose in mind. Once the system is installed, routine operation, maintenance and monitoring of system effectiveness will be performed by Highlander personnel. Literature on the proposed equipment can be found in Appendix A.



4.2 Groundwater Remediation of the East Side of Plant

4.2.1 Modification, Operation and Maintenance of the Ferret System

The two Ferret Separation Pumps that were installed in MW-5 and MW-20, will be serviced, and additional equipment installed, in order to more effectively monitor the progress of remediation in this area. The system will be operated and maintained by Highlander personnel.

5.0 CHLORIDE RECOVERY

5.1 Pump Placement

The chloride plume on the east side of the Site, in the vicinity of the closed impoundments has been further investigated and has been well defined, except to the north of the plant site. An additional eight (8) deep monitor wells (MWD-7 through MWD-14) were drilled in mid-January 2002. The locations are shown on the enclosed site map (Figure 2), and copies of the drilling logs can be found in Appendix C. The chloride levels are greatest in the vicinity of the closed surface impoundments. From previous data generated, it is recommended that two wells be equipped with submersible pumps capable of producing at least 35 gallons per minute in order to capture the most heavily impacted groundwater, while forming a hydraulic barrier from any additional offsite migration. The two wells to be initially equipped would be MWD-3 and MWD-9. As previously approved by the NMOCD in Santa Fe, water generated from the pumping will be disposed of into the onsite Dynegy disposal well. The contract with Dynegy is currently being negotiated.

5.2 Operation and Maintenance

Once pumping starts, the site will be routinely monitored, starting on a weekly basis, to ensure that the cone of depression formed by the pumping wells does not adversely affect the dissolved phase or PSH plumes on the west side of the facility.

6.0 RECOMMENDATIONS

1. In 2003, it is anticipated that the Dual Phase Extraction system will be installed into four of the existing recovery wells to address both PSH and unsaturated zone hydrocarbons, in the western half of the plant site. Once the system is installed, routine operation, maintenance and monitoring of system effectiveness will be performed by Highlander personnel.
2. The two Ferret Separation Pumps (PSH recovery system) that were installed in MW-5 and MW-20, will be serviced, and additional equipment installed, in order to more effectively monitor the progress of remediation

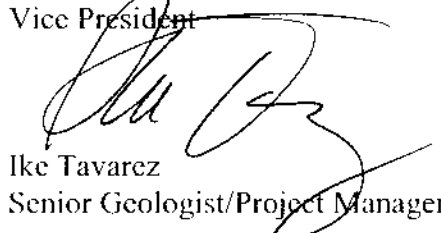


in this area. The system will be operated and maintained by Highlander personnel.

3. From previous chloride data generated, it is recommended that two wells, MWD-3 and MWD-9 be equipped with submersible pumps capable of producing at least 35 gallons per minute in order to capture the most heavily impacted groundwater, while forming a hydraulic barrier from any additional offsite chloride migration. Water generated from the pumping will be disposed of into the onsite Dynegy disposal well, once and agreement is entered into with Dynegy. Once pumping starts, the site will be routinely monitored, starting on a weekly basis, to ensure that the cone of depression formed by the pumping wells does not adversely affect the dissolved phase or PSH plumes on the west side of the facility. Additional chloride and BTEX sampling will be performed on a quarterly basis, aside from the scheduled semi-annual sampling.
4. Semi-annual sampling of all monitor wells will be continued, and a summary of all activities will be provided to the NMOCD in the first quarter of 2003.
5. Once the Duel Phase system is operation, and as the plant continues to be disassembled, the need and location for additional SVE extraction points will be evaluated. This would allow for proper extraction point placement, effective monitoring and efficient use of available equipment
6. In 2003, hydrographs will be prepared for all of the monitor wells to review for correlation between BTEX, dissolved metals and water level fluctuations.

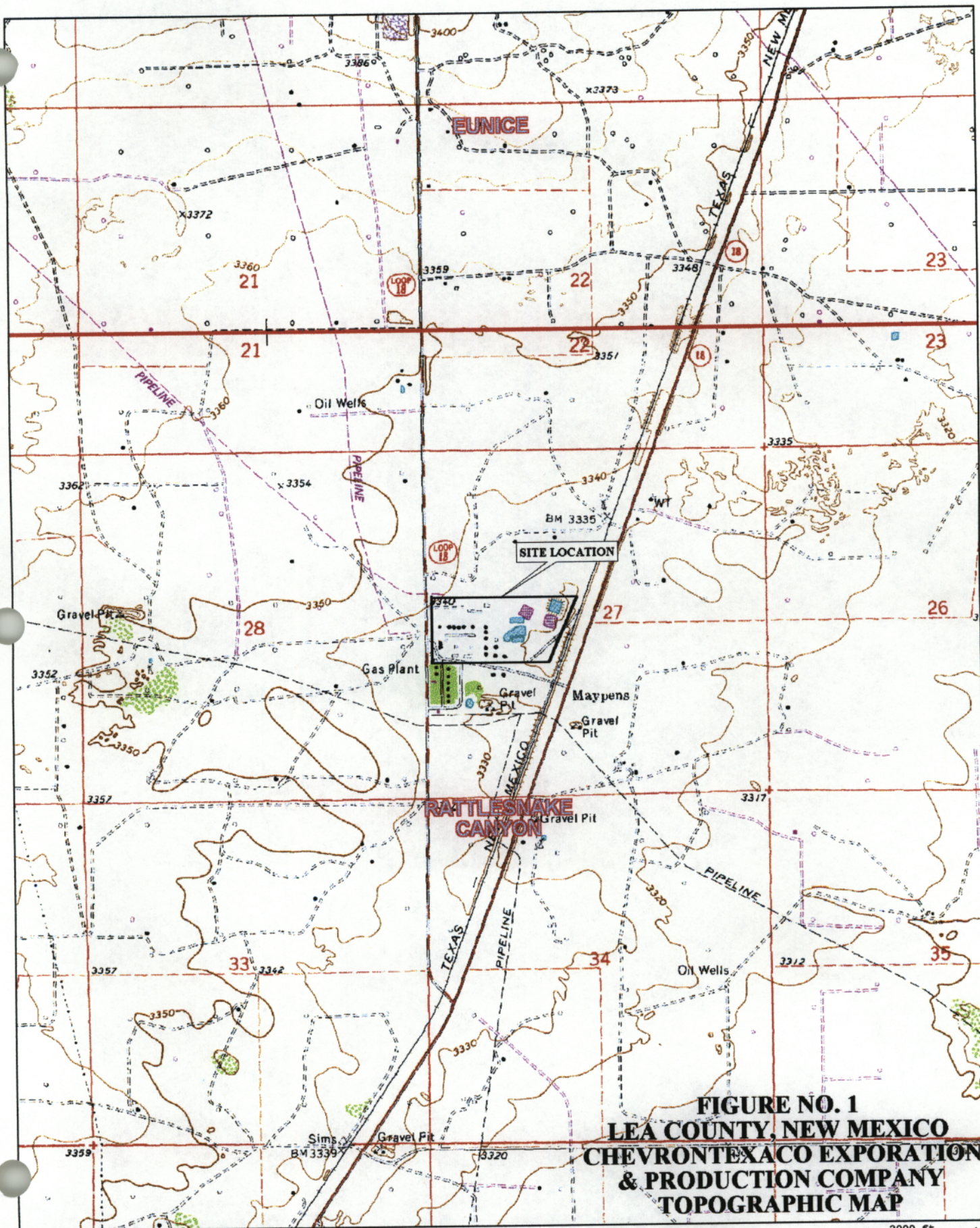
Respectfully Submitted,
Highlander Environmental Corp.

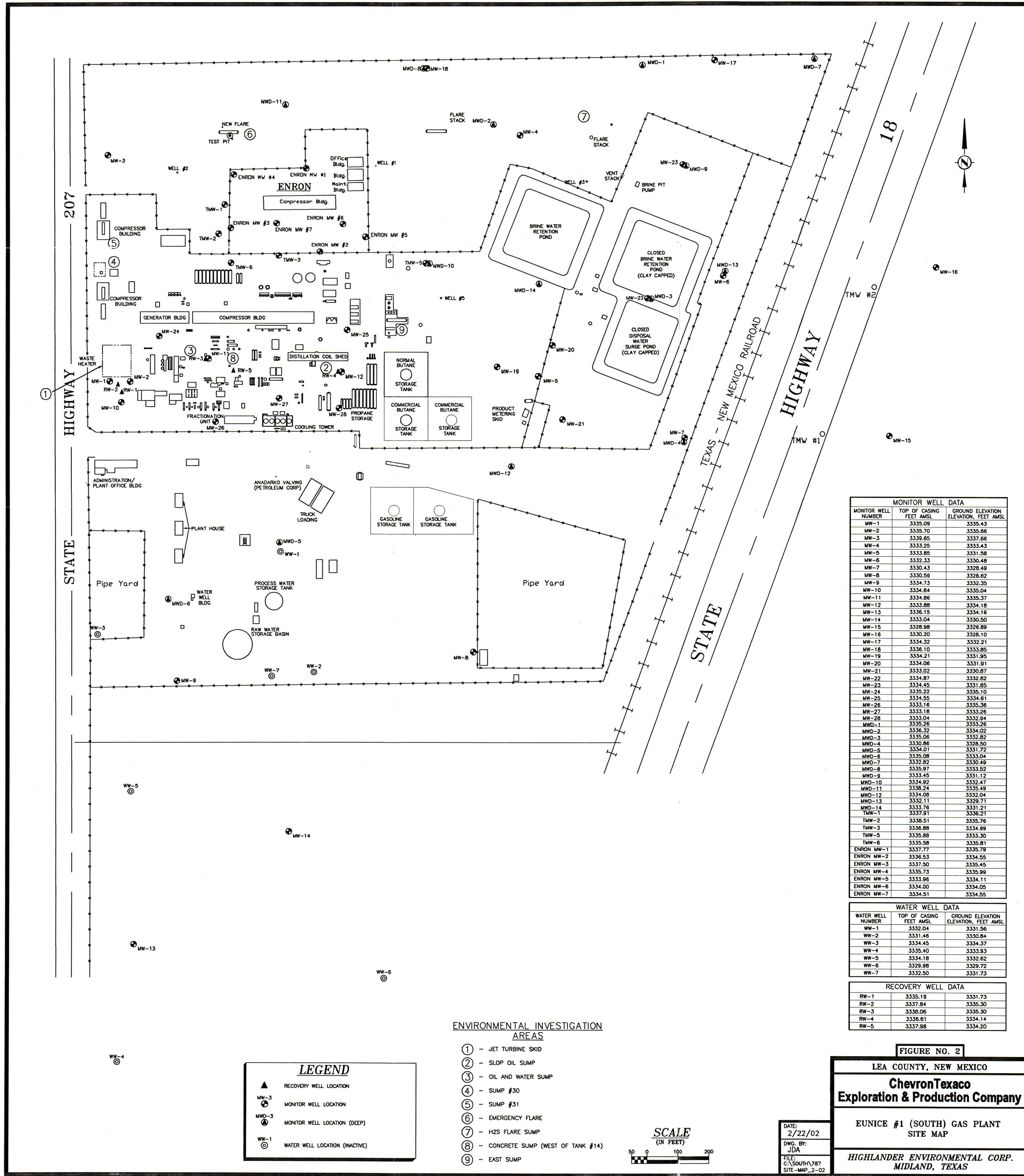

Timothy M. Reed, REM
Vice President


Ike Tavaréz
Senior Geologist/Project Manager



FIGURES

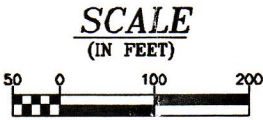




LEGEND

- ▲ RECOVERY WELL LOCATION
- MW-3 MONITOR WELL LOCATION
- MWD-3 MONITOR WELL LOCATION (DEEP)
- WW-1 WATER WELL LOCATION (INACTIVE)

- ENVIRONMENTAL INVESTIGATION AREAS**
- ① - JET TURBINE SKID
 - ② - SLOP OIL SUMP
 - ③ - OIL AND WATER SUMP
 - ④ - SUMP #30
 - ⑤ - SUMP #31
 - ⑥ - EMERGENCY FLARE
 - ⑦ - H2S FLARE SUMP
 - ⑧ - CONCRETE SUMP (WEST OF TANK #14)
 - ⑨ - EAST SUMP



MONITOR WELL DATA		
MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
MW-1	3335.09	3335.43
MW-2	3335.70	3335.86
MW-3	3339.85	3337.86
MW-4	3333.25	3333.43
MW-5	3333.85	3331.58
MW-6	3332.33	3330.48
MW-7	3330.43	3328.49
MW-8	3330.59	3328.82
MW-9	3334.73	3332.35
MW-10	3334.84	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
MW-14	3333.04	3330.50
MW-15	3328.98	3326.89
MW-16	3330.20	3328.10
MW-17	3334.32	3332.21
MW-18	3336.10	3333.85
MW-19	3334.21	3331.95
MW-20	3334.06	3331.91
MW-21	3333.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.65
MW-24	3335.22	3335.10
MW-25	3334.55	3334.61
MW-26	3333.16	3335.36
MW-27	3333.18	3333.26
MW-28	3333.04	3332.94
MWD-1	3335.26	3335.26
MWD-2	3336.32	3334.02
MWD-3	3335.06	3332.82
MWD-4	3330.86	3328.50
MWD-5	3334.01	3331.72
MWD-6	3335.08	3333.04
MWD-7	3332.82	3330.49
MWD-8	3335.97	3333.52
MWD-9	3333.45	3331.12
MWD-10	3334.92	3332.47
MWD-11	3338.24	3335.49
MWD-12	3334.08	3332.04
MWD-13	3332.11	3328.71
MWD-14	3333.76	3331.21
TMW-1	3337.91	3336.21
TMW-2	3338.51	3335.76
TMW-3	3336.88	3334.99
TMW-5	3335.88	3333.30
TMW-6	3335.58	3335.81
ENRON MW-1	3337.77	3335.79
ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3335.99
ENRON MW-5	3333.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA		
WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
WW-1	3332.04	3331.56
WW-2	3331.46	3330.84
WW-3	3334.45	3334.37
WW-4	3335.40	3333.93
WW-5	3334.18	3332.82
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
RW-1	3335.19	3331.73
RW-2	3337.84	3336.30
RW-3	3336.06	3335.30
RW-4	3336.61	3334.14
RW-5	3337.98	3334.20

FIGURE NO. 2

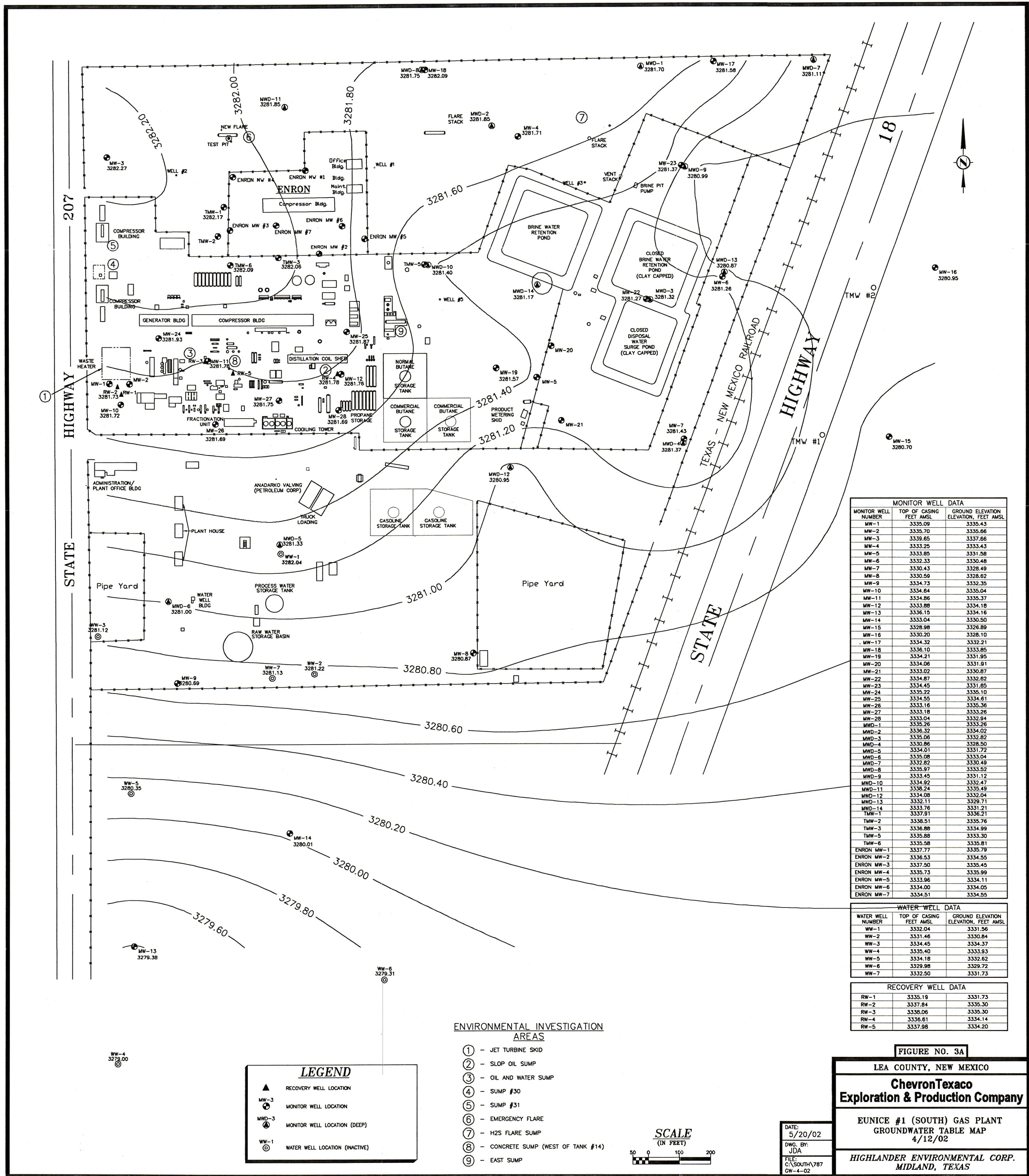
LEA COUNTY, NEW MEXICO

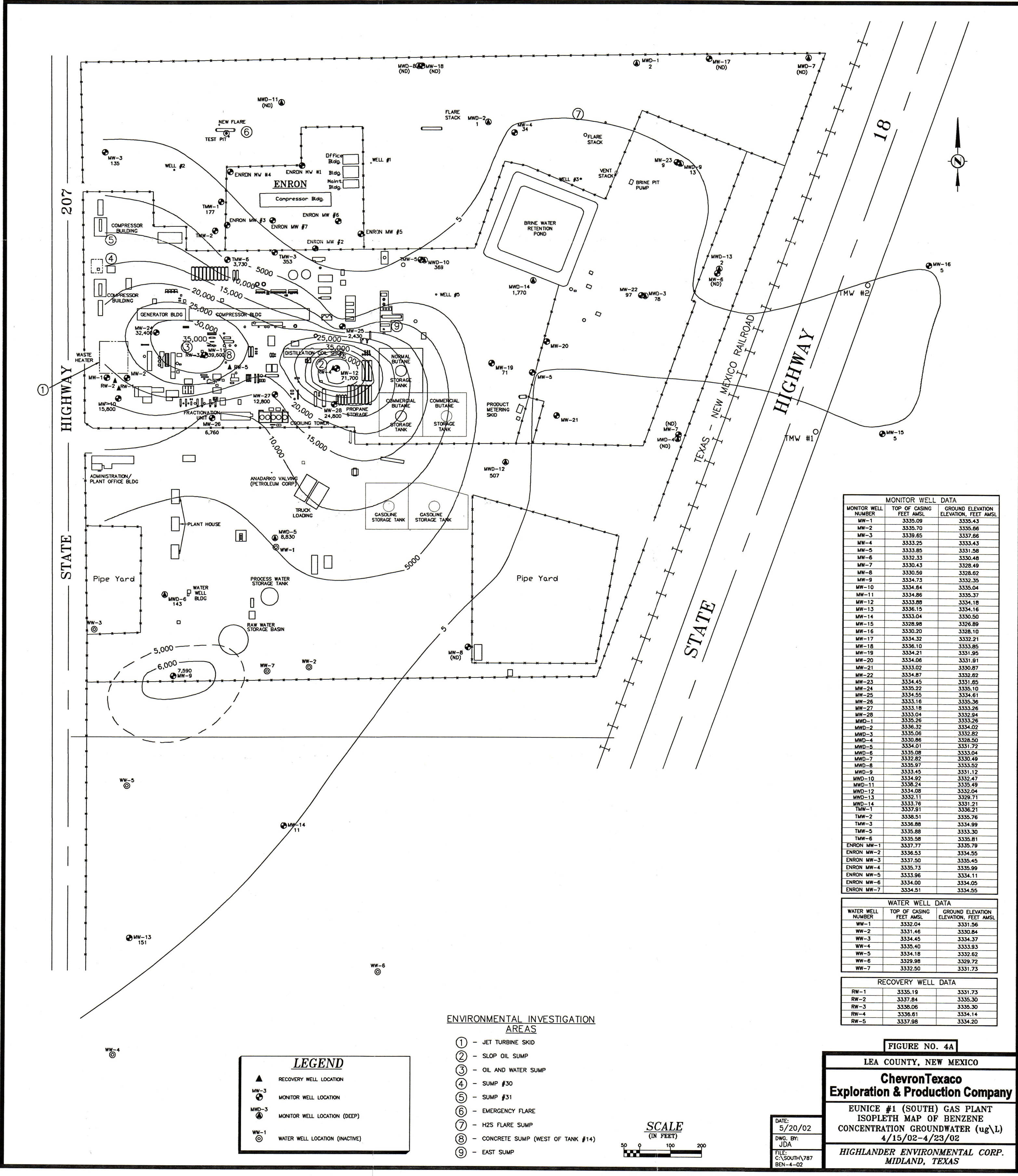
ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
SITE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
2/22/02
DWG. BY:
JDA
FILE:
C:\SOUTH\787
SITE-MAP-2-02





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MW-8	3330.50	3328.62
MW-9	3334.73	3332.25
MW-10	3334.84	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
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MWD-12	3334.08	3332.04
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ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
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ENRON MW-5	3333.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.05

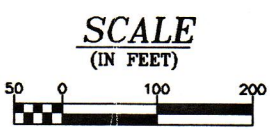
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WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
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RW-3	3336.06	3335.30
RW-4	3336.61	3334.14
RW-5	3337.98	3334.20

- ENVIRONMENTAL INVESTIGATION AREAS
- 1 - JET TURBINE SKID
 - 2 - SLOP OIL SUMP
 - 3 - OIL AND WATER SUMP
 - 4 - SUMP #30
 - 5 - SUMP #31
 - 6 - EMERGENCY FLARE
 - 7 - H2S FLARE SUMP
 - 8 - CONCRETE SUMP (WEST OF TANK #14)
 - 9 - EAST SUMP

LEGEND

- ▲ RECOVERY WELL LOCATION
- MW-3 MONITOR WELL LOCATION
- MWD-3 MONITOR WELL LOCATION (DEEP)
- WW-1 WATER WELL LOCATION (INACTIVE)



DATE: 5/20/02
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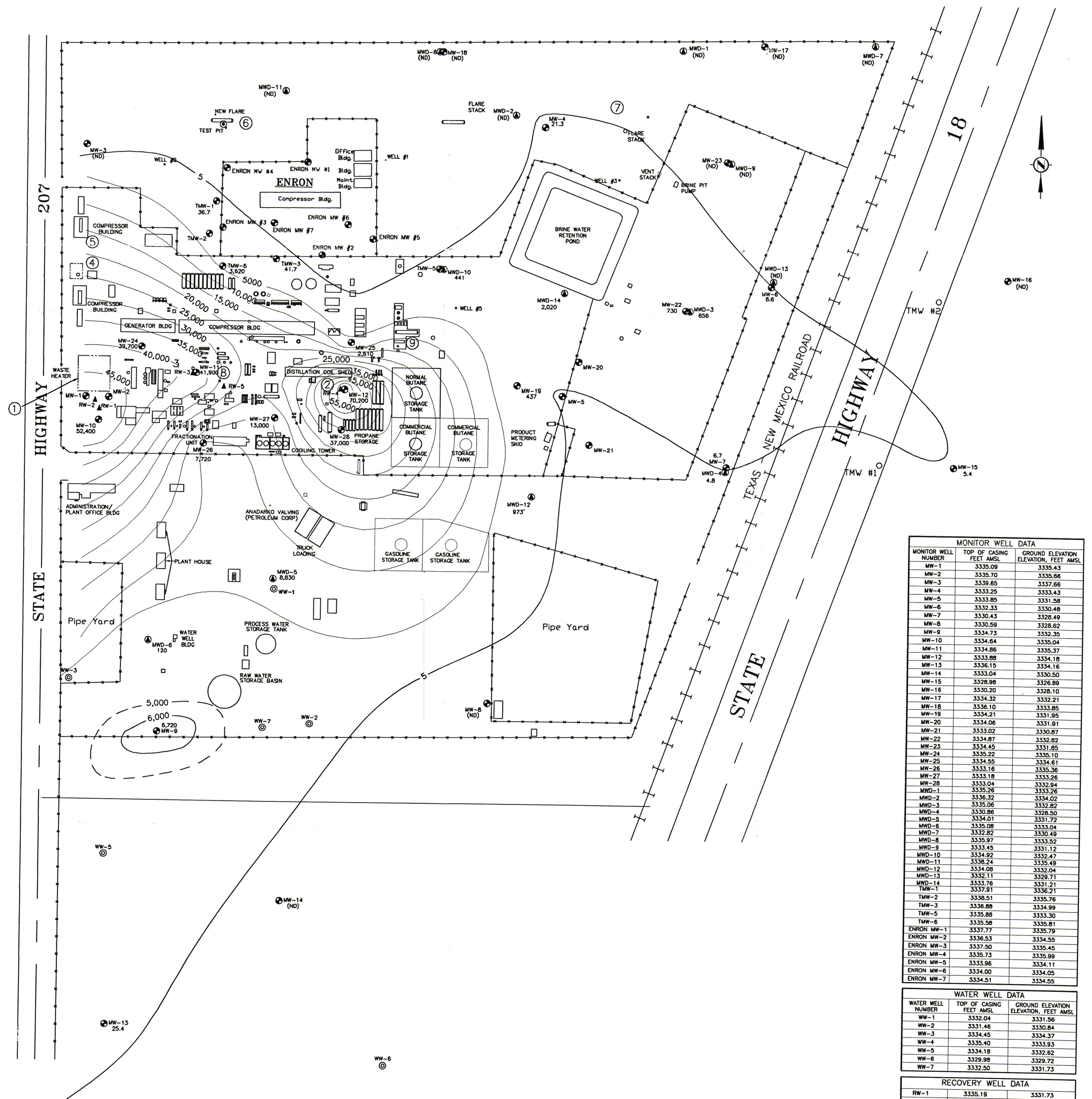
FIGURE NO. 4A

LEA COUNTY, NEW MEXICO

ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF BENZENE
CONCENTRATION GROUNDWATER (ug/L)
4/15/02-4/23/02

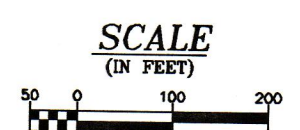
HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



LEGEND

- ▲ RECOVERY WELL LOCATION
- MONITOR WELL LOCATION
- MONITOR WELL LOCATION (DEEP)
- WATER WELL LOCATION (INACTIVE)

- ENVIRONMENTAL INVESTIGATION AREAS**
- ① - JET TURBINE SKID
 - ② - SLOP OIL SUMP
 - ③ - OIL AND WATER SUMP
 - ④ - SUMP #30
 - ⑤ - SUMP #31
 - ⑥ - EMERGENCY FLARE
 - ⑦ - H2S FLARE SUMP
 - ⑧ - CONCRETE SUMP (WEST OF TANK #14)
 - ⑨ - EAST SUMP



MONITOR WELL DATA		
MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
MW-1	3335.09	3335.43
MW-2	3335.70	3335.86
MW-3	3339.65	3337.66
MW-4	3333.25	3333.43
MW-5	3333.85	3331.58
MW-6	3332.33	3330.48
MW-7	3330.43	3328.49
MW-8	3330.59	3328.62
MW-9	3334.73	3332.35
MW-10	3334.64	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
MW-14	3333.04	3330.50
MW-15	3328.98	3326.89
MW-16	3330.20	3326.10
MW-17	3334.32	3332.21
MW-18	3336.10	3333.85
MW-19	3334.21	3331.95
MW-20	3334.08	3331.81
MW-21	3333.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.65
MW-24	3335.22	3335.10
MW-25	3334.45	3334.61
MW-26	3333.16	3335.36
MW-27	3333.18	3335.26
MW-28	3333.04	3333.84
MWD-1	3335.26	3335.26
MWD-2	3336.32	3334.02
MWD-3	3335.06	3335.06
MWD-4	3330.86	3328.50
MWD-5	3334.01	3331.72
MWD-6	3335.08	3335.04
MWD-7	3332.82	3332.48
MWD-8	3335.97	3333.52
MWD-9	3335.45	3331.12
MWD-10	3334.92	3332.47
MWD-11	3338.24	3335.49
MWD-12	3334.08	3332.04
MWD-13	3332.11	3328.71
MWD-14	3333.76	3331.21
TMW-1	3337.91	3336.21
TMW-2	3335.51	3335.76
TMW-3	3336.88	3334.98
TMW-5	3335.88	3333.30
TMW-6	3335.98	3335.81
ENRON MW-1	3337.77	3335.79
ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3335.99
ENRON MW-5	3335.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA		
WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
WW-1	3332.04	3331.56
WW-2	3331.48	3330.84
WW-3	3334.45	3334.37
WW-4	3335.40	3333.83
WW-5	3334.18	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
RW-1	3335.19	3331.73
RW-2	3337.84	3336.30
RW-3	3338.06	3335.30
RW-4	3336.81	3334.14
RW-5	3337.98	3334.20

FIGURE NO. 4B

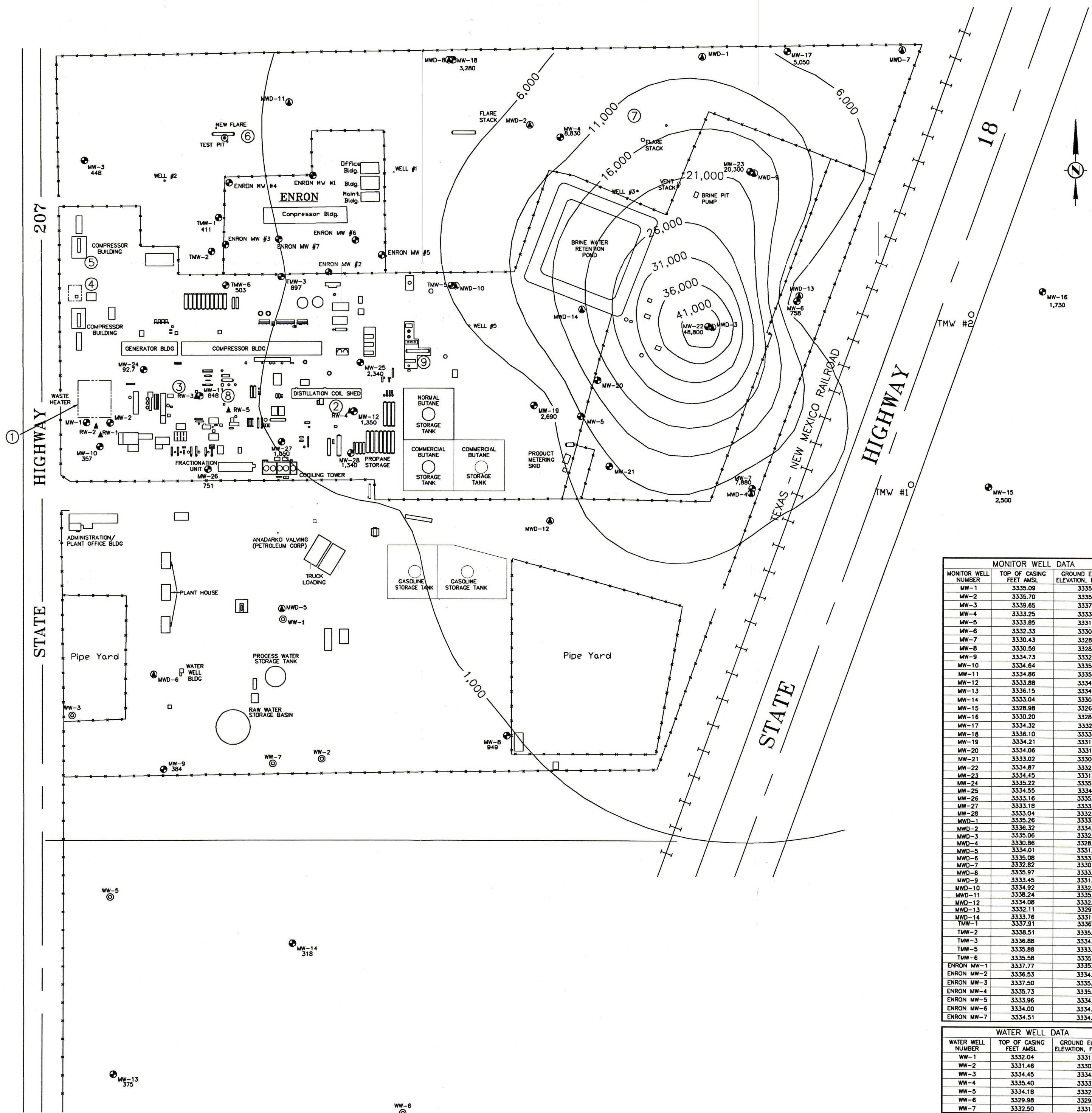
LEA COUNTY, NEW MEXICO

ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF BENZENE
CONCENTRATION GROUNDWATER (ug/L)
9/16/02-9/25/02

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/22/02
DWG. BY: JDA
FILE: C:\SOUTH\787
BN-9-02

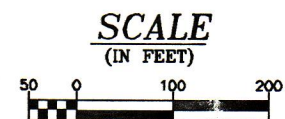


LEGEND

▲	RECOVERY WELL LOCATION
●	MONITOR WELL LOCATION
●	MONITOR WELL LOCATION (DEEP)
○	WATER WELL LOCATION (INACTIVE)

ENVIRONMENTAL INVESTIGATION AREAS

- ① - JET TURBINE SKID
- ② - SLOP OIL SUMP
- ③ - OIL AND WATER SUMP
- ④ - SUMP #30
- ⑤ - SUMP #31
- ⑥ - EMERGENCY FLARE
- ⑦ - H2S FLARE SUMP
- ⑧ - CONCRETE SUMP (WEST OF TANK #14)
- ⑨ - EAST SUMP



MONITOR WELL DATA

MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
MW-1	3335.09	3335.43
MW-2	3335.70	3335.66
MW-3	3339.65	3337.66
MW-4	3333.25	3333.43
MW-5	3333.85	3331.58
MW-6	3332.33	3330.48
MW-7	3330.43	3328.49
MW-8	3330.59	3328.62
MW-9	3334.73	3332.35
MW-10	3334.64	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
MW-14	3333.04	3330.50
MW-15	3328.98	3328.89
MW-16	3330.20	3328.10
MW-17	3334.32	3332.21
MW-18	3336.10	3333.85
MW-19	3334.21	3331.95
MW-20	3334.06	3331.91
MW-21	3333.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.65
MW-24	3335.22	3335.10
MW-25	3334.55	3334.61
MW-26	3333.16	3335.36
MW-27	3333.18	3333.26
MW-28	3333.04	3332.94
MWD-1	3335.26	3333.26
MWD-2	3336.32	3334.02
MWD-3	3335.06	3332.82
MWD-4	3330.86	3328.50
MWD-5	3334.01	3331.72
MWD-6	3335.08	3333.04
MWD-7	3332.82	3330.49
MWD-8	3335.97	3333.52
MWD-9	3333.45	3331.12
MWD-10	3334.92	3332.47
MWD-11	3338.24	3335.49
MWD-12	3334.08	3332.04
MWD-13	3332.11	3329.71
MWD-14	3333.76	3331.21
TMW-1	3337.01	3336.21
TMW-2	3338.51	3335.76
TMW-3	3336.88	3334.99
TMW-5	3335.88	3333.30
TMW-6	3335.58	3335.81
ENRON MW-1	3337.77	3335.79
ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3335.99
ENRON MW-5	3333.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA

WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
WW-1	3332.04	3331.56
WW-2	3331.46	3330.84
WW-3	3334.45	3334.37
WW-4	3335.40	3333.83
WW-5	3334.18	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA

RECOVERY WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
RW-1	3335.19	3331.73
RW-2	3337.84	3335.30
RW-3	3336.06	3335.30
RW-4	3336.61	3334.14
RW-5	3337.98	3334.20

FIGURE NO. 5A

LEA COUNTY, NEW MEXICO

ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
ISOPLATH MAP OF CHLORIDE (SHALLOW)
CONCENTRATION GROUNDWATER (mg/L)
4/15-23/02

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
5/20/02
DWG. BY:
JDA
FILE:
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SH-SHAL-4-02

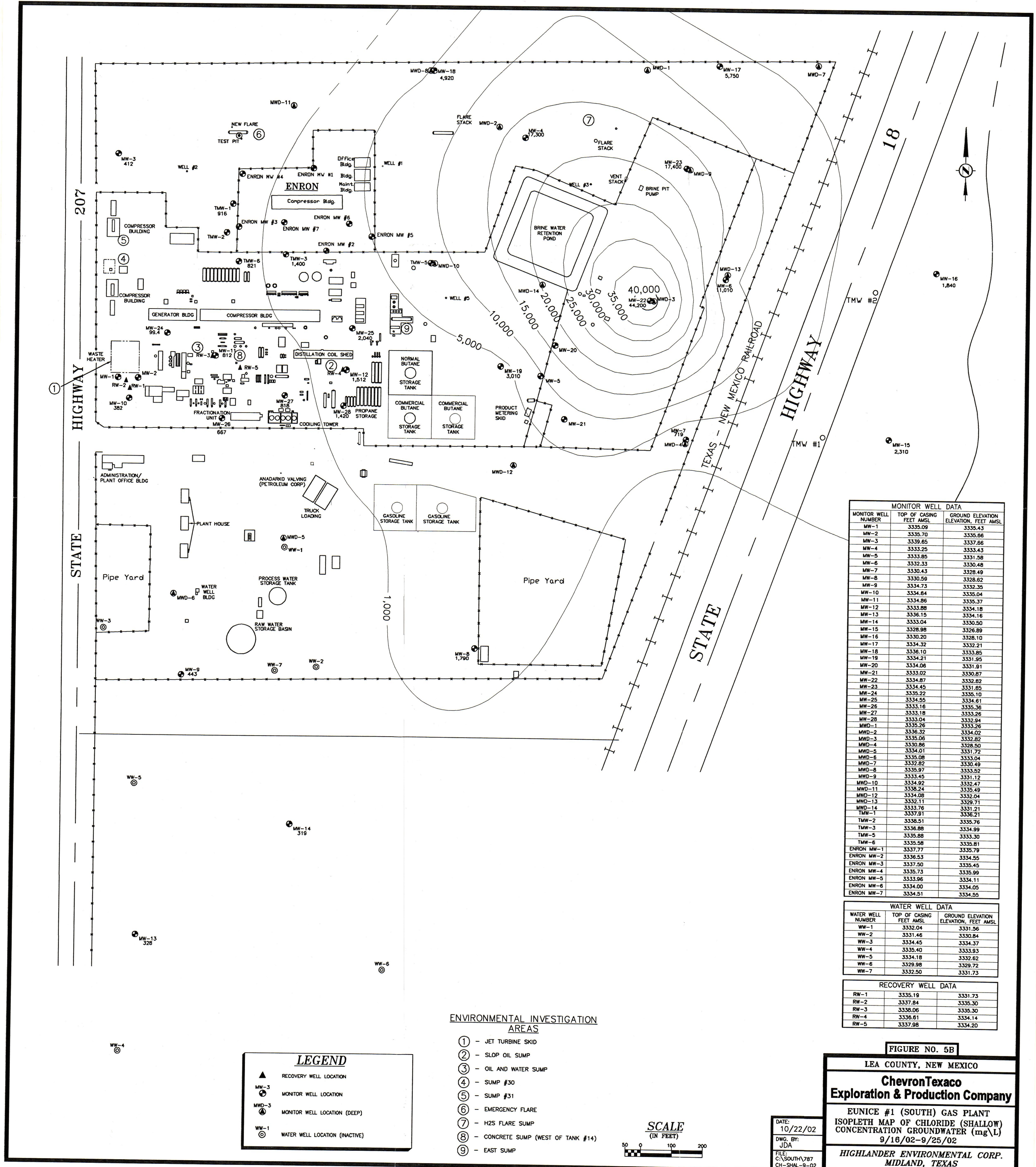


FIGURE NO. 5B

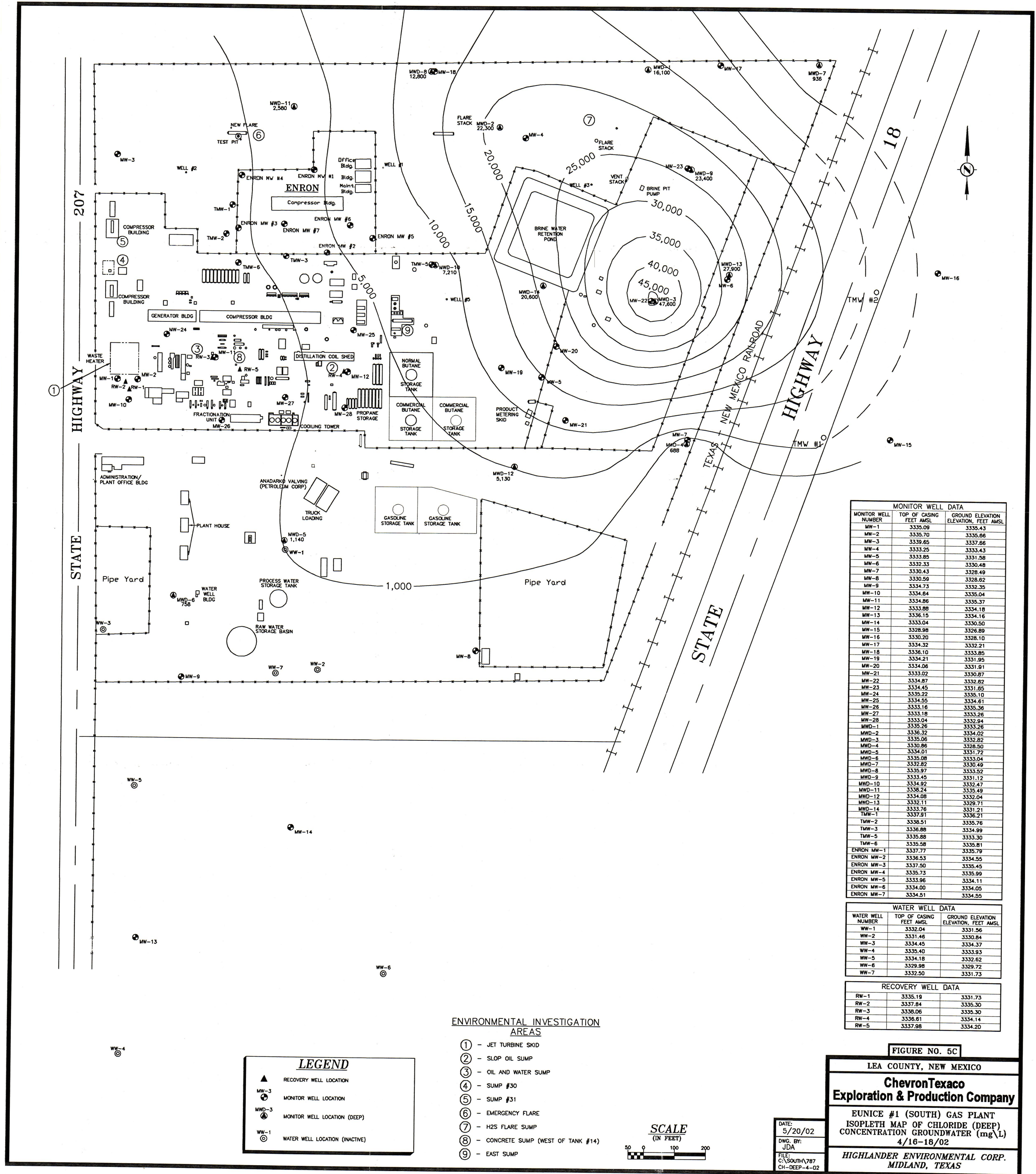
LEA COUNTY, NEW MEXICO

ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF CHLORIDE (SHALLOW)
CONCENTRATION GROUNDWATER (mg/L)
9/16/02-9/25/02

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE:
10/22/02
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CH-SHAL-9-02



MONITOR WELL DATA		
MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
MW-1	3335.09	3335.43
MW-2	3335.70	3335.66
MW-3	3335.85	3337.66
MW-4	3333.25	3333.43
MW-5	3333.80	3331.58
MW-6	3332.33	3330.48
MW-7	3330.43	3328.49
MW-8	3330.59	3328.62
MW-9	3334.73	3332.35
MW-10	3334.84	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
MW-14	3333.04	3330.50
MW-15	3328.98	3326.89
MW-16	3330.20	3328.10
MW-17	3334.32	3332.21
MW-18	3336.10	3333.85
MW-19	3334.21	3331.95
MW-20	3334.06	3331.81
MW-21	3333.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.65
MW-24	3335.22	3335.10
MW-25	3334.55	3334.61
MW-26	3333.16	3335.36
MW-27	3333.18	3333.26
MW-28	3333.04	3332.94
MWD-1	3335.26	3333.26
MWD-2	3336.32	3334.02
MWD-3	3335.06	3332.82
MWD-4	3330.86	3328.50
MWD-5	3334.01	3331.72
MWD-6	3335.09	3333.04
MWD-7	3332.82	3330.49
MWD-8	3335.97	3333.52
MWD-9	3333.45	3331.12
MWD-10	3334.92	3332.47
MWD-11	3338.24	3335.49
MWD-12	3334.08	3332.04
MWD-13	3332.11	3329.71
MWD-14	3333.76	3331.21
TMW-1	3337.91	3336.21
TMW-2	3338.51	3335.76
TMW-3	3336.88	3334.99
TMW-4	3335.88	3333.30
TMW-5	3335.58	3335.81
ENRON MW-1	3337.77	3335.79
ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3335.99
ENRON MW-5	3333.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA		
WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
WW-1	3332.04	3331.56
WW-2	3331.48	3330.84
WW-3	3334.45	3334.37
WW-4	3335.40	3333.93
WW-5	3334.18	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
RECOVERY WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
RW-1	3335.19	3331.73
RW-2	3337.84	3336.30
RW-3	3338.06	3335.30
RW-4	3336.61	3334.14
RW-5	3337.98	3334.20

- ENVIRONMENTAL INVESTIGATION AREAS
- ① - JET TURBINE SKID
 - ② - SLOP OIL SUMP
 - ③ - OIL AND WATER SUMP
 - ④ - SUMP #30
 - ⑤ - SUMP #31
 - ⑥ - EMERGENCY FLARE
 - ⑦ - H2S FLARE SUMP
 - ⑧ - CONCRETE SUMP (WEST OF TANK #14)
 - ⑨ - EAST SUMP

LEGEND

- ▲ RECOVERY WELL LOCATION
- MONITOR WELL LOCATION
- MONITOR WELL LOCATION (DEEP)
- WATER WELL LOCATION (INACTIVE)

FIGURE NO. 5C

LEA COUNTY, NEW MEXICO

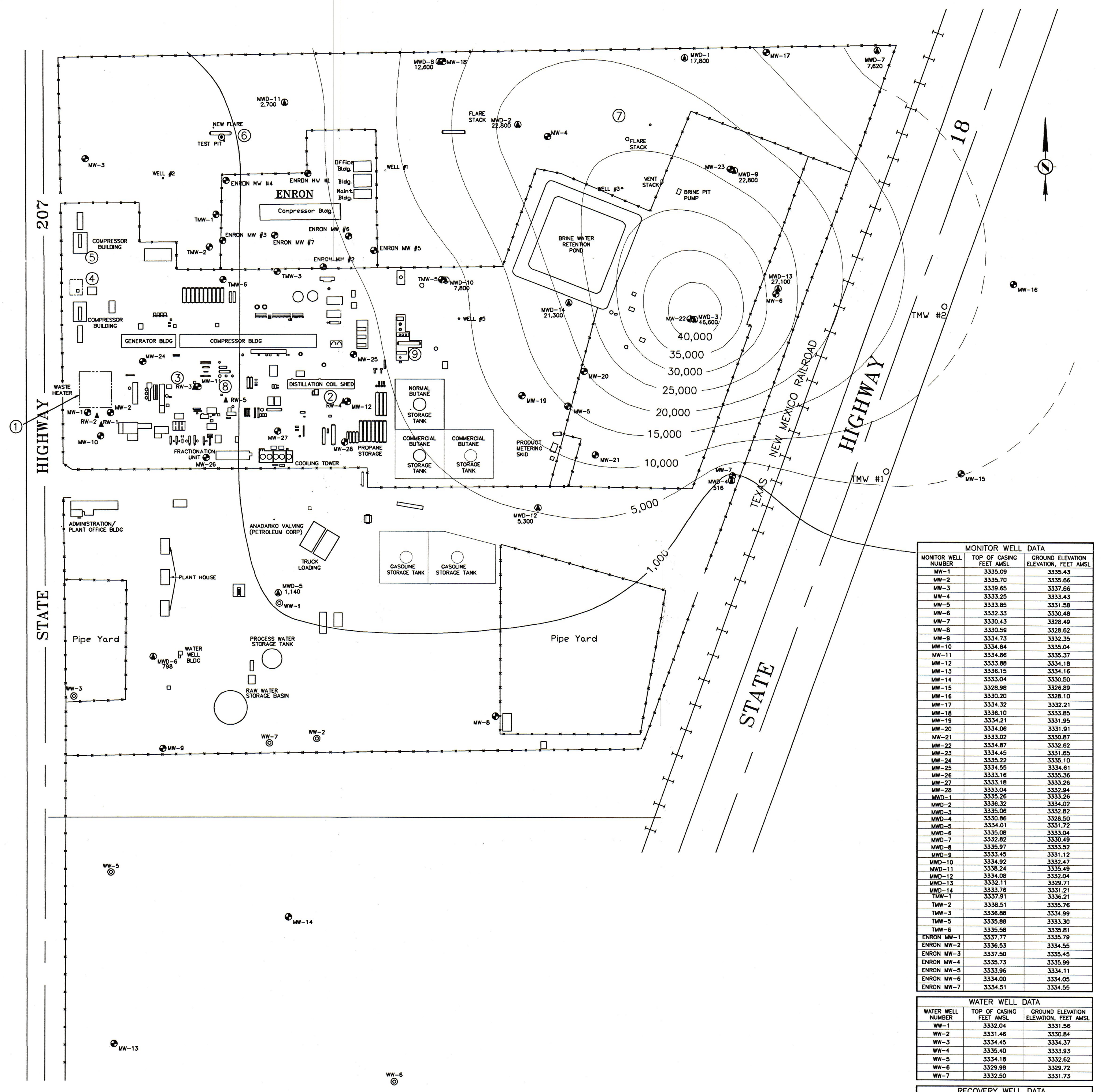
ChevronTexaco
Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF CHLORIDE (DEEP)
CONCENTRATION GROUNDWATER (mg/L)
4/16-18/02

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 5/20/02
DWC BY: UDA
FILE: C:\SOUTH\787
CH-DEEP-4-02

SCALE
(IN FEET)
0 100 200



MONITOR WELL DATA		
MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
MW-1	3335.09	3335.43
MW-2	3335.70	3335.66
MW-3	3339.65	3337.66
MW-4	3333.25	3333.43
MW-5	3333.85	3331.58
MW-6	3332.33	3330.48
MW-7	3330.43	3328.49
MW-8	3330.59	3328.62
MW-9	3334.73	3332.35
MW-10	3334.64	3335.04
MW-11	3334.86	3335.37
MW-12	3333.88	3334.18
MW-13	3336.15	3334.16
MW-14	3333.04	3330.50
MW-15	3328.98	3326.89
MW-16	3330.20	3328.10
MW-17	3334.32	3332.21
MW-18	3336.10	3333.85
MW-19	3334.21	3331.95
MW-20	3334.06	3331.91
MW-21	3333.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.85
MW-24	3335.22	3335.10
MW-25	3334.55	3334.61
MW-26	3333.16	3335.36
MW-27	3333.18	3333.26
MW-28	3333.04	3332.94
MWD-1	3335.26	3333.26
MWD-2	3336.32	3334.02
MWD-3	3335.06	3332.82
MWD-4	3330.86	3328.50
MWD-5	3334.01	3331.72
MWD-6	3335.08	3333.04
MWD-7	3332.82	3330.49
MWD-8	3335.97	3333.52
MWD-9	3333.45	3331.12
MWD-10	3334.92	3332.47
MWD-11	3336.24	3335.49
MWD-12	3334.08	3332.04
MWD-13	3332.11	3329.71
MWD-14	3333.76	3331.21
TMW-1	3337.91	3336.21
TMW-2	3338.51	3335.76
TMW-3	3336.88	3334.99
TMW-5	3335.88	3333.30
TMW-6	3335.58	3335.81
ENRON MW-1	3337.77	3335.78
ENRON MW-2	3336.53	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3335.99
ENRON MW-5	3333.96	3334.11
ENRON MW-6	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA		
WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION FEET AMSL
WW-1	3332.04	3331.56
WW-2	3331.46	3330.84
WW-3	3334.45	3334.37
WW-4	3335.40	3333.83
WW-5	3334.18	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
RW-1	3335.19	3331.73
RW-2	3337.84	3335.30
RW-3	3336.06	3335.30
RW-4	3336.61	3334.14
RW-5	3337.98	3334.20

ENVIRONMENTAL INVESTIGATION AREAS

- ① - JET TURBINE SKID
- ② - SLOP OIL SUMP
- ③ - OIL AND WATER SUMP
- ④ - SUMP #30
- ⑤ - SUMP #31
- ⑥ - EMERGENCY FLARE
- ⑦ - H2S FLARE SUMP
- ⑧ - CONCRETE SUMP (WEST OF TANK #14)
- ⑨ - EAST SUMP

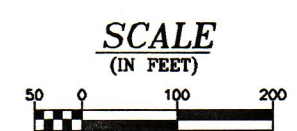
LEGEND

▲ RECOVERY WELL LOCATION

● MONITOR WELL LOCATION

● MONITOR WELL LOCATION (DEEP)

○ WATER WELL LOCATION (INACTIVE)



DATE: 10/22/02
 DWG. BY: JDA
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 CH-DEEP-9-02

FIGURE NO. 5D

LEA COUNTY, NEW MEXICO

ChevronTexaco
 Exploration & Production Company

EUNICE #1 (SOUTH) GAS PLANT
 ISOPLETH MAP OF CHLORIDE (DEEP)
 CONCENTRATION GROUNDWATER (mg/L)
 9/16/02-9/25/02

HIGHLANDER ENVIRONMENTAL CORP.
 MIDLAND, TEXAS

TABLES

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MW-1	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	53.88	0.00	3335.09	3281.21	3281.21	7.37	-	0	0.51	0	0	0	0	0
05/28/97	53.45	2.73	3335.09	3281.64	3278.91	-	-	-	-	-	-	-	-	-
12/07/98	53.63	2.31	3335.09	3281.46	3279.15	-	-	-	-	-	-	-	-	-
08/23/00	53.37	2.07	3335.09	3281.72	3279.65	-	-	-	-	-	-	-	-	-
03/22/01	54.94	2.09	3335.09	3280.15	3278.06	-	-	-	-	-	-	-	-	-
10/16/01	54.97	2.21	3335.09	3280.12	3277.91	-	-	-	-	-	-	-	-	-
04/15/02	55.07	2.17	3335.09	3280.02	3277.85	-	-	-	-	-	-	-	-	-
09/13/02	59.11	6.25	3335.09	3275.98	3269.73	-	-	-	-	-	-	-	-	-
MW-2	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	55.96	0	3335.70	3279.74	3279.74	-	-	-	-	-	-	-	-	-
05/28/97	53.79	2.97	3335.70	3281.91	3278.94	-	-	-	-	-	-	-	-	-
12/07/98	53.87	2.5	3335.70	3281.83	3279.33	-	-	-	-	-	-	-	-	-
08/23/00	53.61	2.25	3335.70	3282.09	3279.84	-	-	-	-	-	-	-	-	-
03/22/01	55.33	2.28	3335.70	3280.37	3278.09	-	-	-	-	-	-	-	-	-
10/16/01	55.18	2.21	3335.70	3280.52	3278.31	-	-	-	-	-	-	-	-	-
04/15/02	55.50	2.39	3335.70	3280.20	3277.81	-	-	-	-	-	-	-	-	-
09/13/02	55.55	2.48	3335.70	3280.15	3277.67	-	-	-	-	-	-	-	-	-
MW-3	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	57.65	0	3339.65	3282.00	3282.00	0.029	430	0	0	0	0	0	0	0
12/07/98	57.74	0	3339.65	3281.91	3281.91	-	-	-	-	-	-	-	-	-
08/23/00	57.59	0	3339.65	3282.06	3282.06	0	530	0	0.15	0	0	0	0	0
03/22/01	57.39	0	3339.65	3282.26	3282.26	0	480	0	0.14	0	0	0	0	0
10/16/01	56.30	0	3339.65	3283.35	3283.35	0.0065	475	0	0.144	0	0	0	0	0
04/15/02	57.38	0	3339.65	3282.27	3282.27	0.0135	448	0	0.158	0	0	0	0	0
09/13/02	57.32	0	3339.65	3282.33	3282.33	0	410	0	0.193	0	0	0	0	0
MW-4	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	51.53	0	3333.25	3281.72	3281.72	0.047	5500	0	0.2	0	0	0	0	0
12/07/98	51.73	0	3333.25	3281.52	3281.52	-	-	-	-	-	-	-	-	-
08/23/00	51.64	0	3333.25	3281.61	3281.61	0.052	7100	0	0.15	0	0	0	0	0
03/22/01	51.34	0	3333.25	3281.91	3281.91	0	8200	0	0	0	0	0	0	0
10/16/01	50.40	0	3333.25	3282.85	3282.85	0.0304	6210	0	0	0	0	0	0	0
04/15/02	51.54	0	3333.25	3281.71	3281.71	0.0344	8830	0	0	0	0	0	0	0
09/13/02	51.51	0	3333.25	3281.74	3281.74	0.0213	17300	0	0.144	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
Texaco - Eunice #1 (South) Gas Plant
Lea County, New Mexico

MW-5	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	52.10	0	3333.85	3281.75	3281.75	1.7	1500	0	0	0	0	0	0	0
12/07/98	52.62	2.68	3333.85	3281.23	3278.55	-	-	-	-	-	-	-	-	-
08/23/00	52.71	5.78	3333.85	3281.14	3275.36	-	-	-	-	-	-	-	-	-
03/22/01	52.00	0.06	3333.85	3281.85	3281.79	-	-	-	-	-	-	-	-	-
Installed Ferret pump (8/01)														
10/16/01	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04/15/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09/13/02	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-6	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	50.60	0	3332.33	3281.73		0.002	3000		0.2	0	0	0	0	0
12/07/98	50.95	0	3332.33	3281.38		-	-	-	-	-	-	-	-	-
08/23/00	50.60	0	3332.33	3281.73		0.012	33000		0	0	0	0	0	0
03/22/01	50.45	0	3332.33	3281.88		0	3500		0	0	0	0	0	0
10/16/01	49.80	0	3332.33	3282.53		0.036	6190		0.047	0	0	0	0	0
04/15/02	51.07	0	3332.33	3281.26		0.143	22700		0	0	0	0	0	0
09/13/02	50.77	0	3332.33	3281.56		0.0066	11010		0.152	0	0	0	0	0
MW-7	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	48.45	0	3330.43	3281.98		0.002	330	0	0	0	0	0	0	0
12/07/98	49.01	0	3330.43	3281.42		-	-	-	-	-	-	-	-	-
08/23/00	48.84	0	3330.43	3281.59		0	380	0	0.10	0	0	0	0	0
03/22/01	48.32	0	3330.43	3282.11		0	250	0	0.804	0	0	0	0	0
10/16/01	47.74	0	3330.43	3282.69		0	390	0	1.01	0	0	0	0	0
04/15/02	49.00	0	3330.43	3281.43		0	7880	0	0	0	0	0	0	0
09/13/02	48.26	0	3330.43	3282.17		0.0067	719	0	1.04	0	0	0	0	0
MW-8	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	49.20	0	3330.59	3281.39		0.003	1900	0	0	0	0	1.5	0	0
12/07/98	49.70	0	3330.59	3280.89		-	-	-	-	-	-	-	-	-
08/23/00	48.99	0	3330.59	3281.60		0.002	430	0	0	0	0	0	0	0
03/22/01	49.35	0	3330.59	3281.24		0	560	0	0	0	0	0	0	0
10/16/01	48.31	0	3330.59	3282.28		0.006	844	0	0.118	0	0	0	0	0
04/15/02	49.72	0	3330.59	3280.87		0	949	0	0.103	0	0	0	0	0
09/13/02	49.57	0	3330.59	3281.02		0	1790	0	0.187	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MW-9	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	53.93	0	3334.73	3280.80		7.9	340	0	2.7	0	0	0	0	0
12/07/98	54.12	0	3334.73	3280.61		-	-	-	-	-	-	-	-	-
08/23/00	53.27	0	3334.73	3281.46		5.28	460	0	11	0	0	0	0	0
03/22/01	53.91	0	3334.73	3280.82		9	420	0	13.3	0	0	0	0	0.025
10/16/01	52.68	0	3334.73	3282.05		6.03	408	0	14.5	0	0	0	0	0
04/15/02	54.04	0	3334.73	3280.69		7.59	384	0	13.7	0	0	0	0	0
09/13/02	54.06	0	3334.73	3280.67		6.72	443	0	14.5	0	0	0	0	0
MW-10	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	52.99	0	3334.64	3281.65		4.1	530	0	0.5	0	0	0	0	0
12/07/98	53.16	0	3334.64	3281.48		-	-	-	-	-	-	-	-	-
08/23/00	52.85	0	3334.64	3281.79		10.7	360	0.3	7.5	0	0	0	0	0
03/22/01	52.87	0	3334.64	3281.77		9.22	360	0	5.86	0	0	0	0	0
10/16/01	51.71	0	3334.64	3282.93		11	339	0.0271	5.81	0	0	0	0	0
04/15/02	52.92	0	3334.64	3281.72		15.8	357	0	5.7	0	0	0	0	0
09/13/02	52.82	0	3334.64	3281.82		52.4	382	0	4.34	0	0	0	0	0
MW-11	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	53.12	0	3334.86	3281.74		30.0	750	0	1.5	0	0	0	0	0
12/07/98	53.32	0	3334.86	3281.54		-	-	-	-	-	-	-	-	-
08/23/00	52.98	0	3334.86	3281.88		35.6	1100	0.100	11	0	0	0	0	0
03/22/01	53.00	0	3334.86	3281.86		46.6	939	0.0508	14.2	0	0	0	0	0
10/16/01	52.89	0	3334.86	3281.97		44.0	339	0.075	6.96	0	0	0	0	0
04/15/02	53.08	0	3334.86	3281.78		39.6	848	4.36	0.692	0	0	0	0	0
09/13/02	53.02	0	3334.86	3281.84		41.9	812	0.080	5.13	0	0	0	0	0
MW-12	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
05/28/97	52.02	0	3333.88	3281.86		13.3	1300	0	0	0	0	0	0	0
12/07/98	52.26	0	3333.88	3281.62		-	-	-	-	-	-	-	-	-
08/23/00	51.86	0	3333.88	3282.02		91.5	1500	0.47	2.6	0	0	0	0	0
03/22/01	51.88	0	3333.88	3282.00		95.7	1900	0.464	1.42	0	0	0	0	0
10/16/01	51.86	0	3333.88	3282.02		6.71	1590	0.413	2.12	0	0	0	0	0
04/15/02	52.12	0	3333.88	3281.76		71.7	1350	0.587	1.97	0	0	0	0	0
09/13/02	52.04	0	3333.88	3281.84		70.2	1510	0.534	1.12	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MW-13	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	56.84	0	3336.15	3279.31		0	430	0	1.30	0	0	0	0	0
08/23/00	56.72	0	3336.15	3279.43		0.085	390	0	1.40	0	0	0	0	0
03/22/01	56.68	0	3336.15	3279.47		0	390	0	2.34	0	0	0	0	0
10/16/01	55.60	0	3336.15	3280.55		0.69	355	0	2.18	0	0	0	0	0
04/15/02	56.77	0	3336.15	3279.38		0.0151	375	0	2.70	0	0	0	0	0
09/13/02	56.79	0	3336.15	3279.36		0.0254	328	0	2.29	0	0	0	0	0
MW-14	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	53.1	0	3333.04	3279.94		0	420	0	0	0	0	0	0	0
08/23/00	52.5	0	3333.04	3280.54		0	300	0	0	0	0	0	0	0
03/22/01	52.86	0	3333.04	3280.18		0	310	0	0	0	0	0	0	0
10/16/01	51.13	0	3333.04	3281.91		0	303	0	0.0672	0	0	0	0	0
04/15/02	53.03	0	3333.04	3280.01		0.011	318	0	0	0	0	0	0	0
09/13/02	53.04	0	3333.04	3280.00		0	319	0	0.131	0	0	0	0	0
MW-15	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	48.07	0	3328.98	3280.91		0.008	2300	0	0	0	0	0	0	0
08/23/00	48.26	0	3328.98	3280.72		0.004	2600	0	0	0	0	0	0	0
03/22/01	47.78	0	3328.98	3281.20		0.002	2700	0	0	0	0	0	0	0
10/16/01	47.15	0	3328.98	3281.83		0.03	2590	0	0.0351	0	0	0	0	0
04/15/02	48.28	0	3328.98	3280.70		0.0052	2500	0	0	0	0	0	0	0
09/13/02	48.18	0	3328.98	3280.80		0.0054	2310	0	0.105	0	0	0	0	0
MW-16	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	49.09	0	3330.2	3281.11		0	2000	0	0	0	0	0	0	0
08/23/00	49.25	0	3330.2	3280.95		0	1900	0	0	0.16	0	0	0	0
03/22/01	48.87	0	3330.2	3281.33		0	1900	0	0	0.168	0	0	0	0
10/16/01	47.1	0	3330.2	3283.10		0	1890	0	0.0327	0.183	0.00038	0	0.0116	0
04/15/02	49.25	0	3330.2	3280.95		0.0052	1930	0	0	0.172	0	0	0	0
09/13/02	49.22	0	3330.2	3280.98		0	1840	0	0.113	0.185	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MW-17	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	52.84	0	3334.32	3281.48		0	6000	0	0	0	0	0	0	0
08/23/00	52.86	0	3334.32	3281.46		0	5700	0	0	0	0	0	0	0
03/22/01	52.53	0	3334.32	3281.79		0	5700	0	0	0.0109	0	0	0	0
10/16/01	51.62	0	3334.32	3282.70		0.008	4960	0	0.0175	0	0	0	0.0164	0
04/15/02	52.74	0	3334.32	3281.58		0	5050	0	0	0	0	0	0	0
09/13/02	52.71	0	3334.32	3281.61		0	5750	0	0.105	0	0	0	0	0
MW-18	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	54.33	0	3336.1	3281.77		0	5700	0	0	0	0	0	0	0
08/23/00	54.21	0	3336.1	3281.89		0	5000	0	0	0	0	0	0	0
03/22/01	53.96	0	3336.1	3282.14		0.036	4500	0	0	0	0	0	0	0
10/16/01	52.92	0	3336.1	3283.18		0.007	3490	0	0.0807	0	0	0	0	0
04/15/02	54.01	0	3336.1	3282.09		0	3280	0	0	0	0	0	0	0
09/13/02	53.98	0	3336.1	3282.12		0	4920	0	0.163	0	0	0	0	0
MW-19	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/23/00	52.44	0	3334.21	3281.77		0.94	3000	0.2	1.8	0	0	0	0	0
03/22/01	52.26	0	3334.21	3281.95		0.973	3100	0	1.01	0	0	0	0	0
10/16/01	51.42	0	3334.21	3282.79		0.85	2790	0	0.815	0	0	0	0	0
04/15/02	52.64	0	3334.21	3281.57		0.71	2690	0	0.737	0	0	0	0	0
09/13/02	52.50	0	3334.21	3281.71		0.437	3010	0	0.942	0	0	0	0	0
MW-20	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/23/00	52.65	2.65	3334.06	3281.41	3278.76	-	-	-	-	-	-	-	-	-
03/22/01	52.2	0.04	3334.06	3281.86	3281.82	-	-	-	-	-	-	-	-	-
Installed Ferret pump (8/01)														
10/16/01	-	-	3334.06	-	-	-	-	-	-	-	-	-	-	-
04/15/02	-	-	3334.06	-	-	-	-	-	-	-	-	-	-	-
09/13/02	-	-	3334.06	-	-	-	-	-	-	-	-	-	-	-

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
Texaco - Eunice #1 (South) Gas Plant
Lea County, New Mexico

MW-21	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/23/00	51.37	0.01	3333.02	3281.65	3281.64	-	-	-	-	-	-	-	-	-
03/22/01	51.14	0	3333.02	3281.88	3281.88	-	-	-	-	-	-	-	-	-
10/16/01	51.38	0.04	3333.02	3281.64	3281.60	-	-	-	-	-	-	-	-	-
04/15/02	51.65	trace	3333.02	3281.37	-	-	-	-	-	-	-	-	-	-
09/13/02	51.36	trace	3333.02	3281.66	-	-	-	-	-	-	-	-	-	-
MW-22	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/23/00	52.66	0	3334.87	3282.21		0.403	-	-	-	-	-	-	-	-
03/22/01	52.97	0	3334.87	3281.90		0.793	24000	0	0.338	0	0	0	0	0
10/16/01	52.38	0	3334.87	3282.49		1.11	17000	0	0.548	0	0	0	0	0
04/15/02	53.60	0	3334.87	3281.27		0.971	48800	0	0	0	0	0	0	0
09/13/02	53.27	0	3334.87	3281.60		0.730	44200	0	0.146	0	0	0	0	0
MW-23	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/23/00	52.70	0	3334.45	3281.75		0.006	-	-	-	-	-	-	-	-
03/22/01	52.70	0	3334.45	3281.75		0.029	15000	0	0	0	0	0	0	0
10/16/01	51.92	0	3334.45	3282.53		0.012	16100	0	0.0449	0	0	0	0.0199	0
04/15/02	53.08	0	3334.45	3281.37		0.0098	20300	0	0	0	0	0	0	0
09/13/02	52.98	0	3334.45	3281.47		0	17400	0	0	0	0	0	0	0
MW-24	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	52.11	0	3335.22	3283.11		32.9	102	0.0016	2.19	0	0	0	0	0
04/15/02	53.29	0	3335.22	3281.93		32.4	92.7	0	5.42	0	0	0	0	0
09/13/02	53.26	0	3335.22	3281.96		39.7	99.4	0	5.74	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MW-25	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	51.46	0	3334.55	3283.09		2.87	1510	0	0.407	0	0	0	0	0
04/15/02	52.68	0	3334.55	3281.87		2.43	2340	0	0.161	0	0	0	0	0
09/13/02	52.60	0	3334.55	3281.95		2.61	2040	0	0.167	0	0	0	0	0
MW-26	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	50.15	0	3333.16	3283.01		7.69	661	0.0259	0.95	0	0	0	0	0
04/15/02	51.47	0	3333.16	3281.69		6.76	751	0	3.92	0	0.00048	0	0	0
09/13/02	51.45	0	3333.16	3281.71		7.72	667	0	5.00	0.02	0	0	0	0
MW-27	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	50.13	0	3333.18	3283.05		7.59	1250	0.129	0.14	0	0	0	0	0
04/15/02	51.43	0	3333.18	3281.75		12.8	1050	0.174	0.161	0	0.00042	0	0	0
09/13/02	51.38	0	3333.18	3281.80		13.0	818	0.215	0.226	0	0.00033	0	0	0
MW-28	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	50.01	0	3333.04	3283.03		15.5	1130	0.2	0.294	0	0	0	0	0
04/15/02	51.35	0	3333.04	3281.69		24.8	1340	0.214	0.25	0	0.00047	0	0	0
09/13/02	51.82	0	3333.04	3281.22		37.0	1420	0.240	0.309	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
Texaco - Eunice #1 (South) Gas Plant
Lea County, New Mexico

TMW-1	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/95	56.32	0.00	3337.7	3281.38		0	650	0.0223	0.346	0	0	0	0.014	0
06/06/96	55.70	0	3337.7	3282.00		0.0038	649	0.3243	0.0519	0	0	0	0	0
06/02/97	55.72	0	3337.7	3281.98		0.009	460	0	0	0	0	0	0	0
08/23/00	55.62	0	3337.7	3282.08		0	430	0	0.58	0	0	0	0	0
03/22/01	55.49	0	3337.7	3282.21		0.012	380	0	0.645	0	0	0	0	0
10/16/01	54.01	0	3337.7	3283.69		0.0204	324	0.0282	0.626	0	0	0	0	0
04/15/02	55.53	0	3337.7	3282.17		0.0177	411	0	0.624	0	0	0	0	0
09/13/02	55.46	0	3337.7	3282.24		0.0367	916	0.0562	0.998	0	0	0	0	0
TMW-2	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/95	56.71	0	3338.3	3281.59		0.0589	545	0.0268	0.807	0	0	0	0.009	0.01
06/06/96	56.34	0	3338.3	3281.96		1.07	1020	0.031	2.08	0	0	0	0	0
06/02/97	56.35	0	3338.3	3281.95		2.7	730	0	3.0	0	0	0	0	0
08/23/00	56.26	0.01	3338.3	3282.04	3282.03	-	-	-	-	-	-	-	-	-
03/22/01	56.13	0	3338.3	3282.17		1.87	660	0	4.66	0	0	0	0	0
10/16/01	56.02	0	3338.3	3282.28		1.82	720	0.0231	5.76	0.0155	0	0	0	0
04/15/02	56.27	trace	3338.3	3282.03		-	-	-	-	-	-	-	-	-
09/13/02	56.13	0.01	3338.3	3282.17	3282.16	-	-	-	-	-	-	-	-	-
TMW-3	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/95	55.95	0.00	3337.7	3281.75		0.048	685	0.0293	1.14	0.0251	0.0002	0	0.016	0
06/06/96	54.71	0	3337.7	3282.99		0.861	1490	0.0464	1.77	0.0213	0	0	0	0
06/02/97	54.74	0	3337.7	3282.96		0.428	870	0	1.0	0	0	0	0	0
08/23/00	54.65	0	3337.7	3283.05		1.02	680	0	2.6	0	0	0	0	0
03/22/01	54.46	0	3337.7	3283.24		1.06	900	0	2.13	0	0	0	0	0
10/16/01	53.3	0	3337.7	3284.40		1.18	741	0.0167	2.46	0	0	0	0	0
04/15/02	54.61	0	3337.7	3283.09		0.353	897	0	1.84	0	0	0	0	0
09/13/02	54.55	0	3337.7	3283.15		0.0417	1400	0.0555	1.33	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

TMW-5	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/95	51.71	0.00	3335.66	3283.95		0.106	1800	0.0783	0.456	0	0	0	0	0
06/06/96	53.70	0	3335.66	3281.96		0.388	3250	0.0716	1.04	0	0	0	0	0
06/02/97	53.77	0	3335.66	3281.89		0.48	4300	0	0.9	0	0	0	0	0
08/23/00	53.78	0	3335.66	3281.88		0.675	3600	0.05	1.1	0	0	0	0	0
03/22/01	53.59	trace	3335.66	3282.07		-	-	-	-	-	-	-	-	-
10/16/01	53.67	trace	3335.66	3281.99		-	-	-	-	-	-	-	-	-
04/15/02	53.83	trace	3335.66	3281.83		-	-	-	-	-	-	-	-	-
09/13/02	53.78	0.01	3335.66	3281.88	3281.87	-	-	-	-	-	-	-	-	-
TMW-6	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/95	55.62	0.00	3335.36	3279.74		0.015	700	0.323	1.36	0.0316	0	0	0.003	0
06/06/96	53.41	0	3335.36	3281.95		1.11	788	0.0693	1.72	0	0	0	0	0
06/02/97	53.40	0	3335.36	3281.96		2.10	730	0	1.3	0	0	0	0	0
08/23/00	53.33	0	3335.36	3282.03		4.68	380	0.13	2.6	0	0	0	0	0
03/22/01	53.15	0	3335.36	3282.21		5.93	400	0.143	1.9	0	0	0	0	0
10/16/01	52.14	0	3335.36	3283.22		4.76	319	0.131	1.98	0	0	0	0	0
04/15/02	53.27	trace	3335.36	3282.09		3.73	503	0.123	1.61	0	0	0	0	0
09/13/02	53.21	0	3335.36	3282.15		3.62	821	0.126	1.40	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

MWD-1	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	3335.26	-	-	-	19900	0	0	0	0	0	0	0
10/16/01	52.44	0	3335.26	3282.82	-	0.006	5790	0	0.0681	0	0	0	0.022	0
04/15/02	53.56	0	3335.26	3281.70	-	0.0025	16100	0	0	0	0	0	0	0
09/13/02	53.53	0	3335.26	3281.73	-	0	17800	0	0	0	0	0	0	0
MWD-2	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	3336.32	-	-	-	25500	0	0	0	0	0	0	0
10/16/01	53.33	0	3336.32	3282.99	-	0.0076	3290	0	0	0	0	0	0	0
04/15/02	54.47	0	3336.32	3281.85	-	0.0012	22300	0	0	0	0	0	0	0
09/13/02	54.43	0	3336.32	3281.89	-	0	22800	0	0.101	0	0	0	0	0
MWD-3	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	3335.06	-	-	-	55900	0	0	0	0	0	0	0
10/16/01	52.68	0	3335.06	3282.38	-	0.329	12200	0.0169	0.226	0	0	0	0	0
04/15/02	53.74	0	3335.06	3281.32	-	0.785	47600	0	0	0	0	0	0	0
09/13/02	53.40	0	3335.06	3281.66	-	0.656	46600	0	0.122	0	0	0	0	0
MWD-4	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	-	-	-	-	921	0	0	0	0	0	0	0
10/16/01	48.2	0	3330.86	3282.66	-	0	333	0	0	0	0	0	0	0
04/15/02	49.49	0	3330.86	3281.37	-	0	688	0	0.430	0	0	0.0125	0	0
09/13/02	48.80	0	3330.86	3282.06	-	0.0048	516	0	0.722	0	0	0	0	0
MWD-5	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	3334.01	-	-	-	1280	0	0	0	0	0	0	0
10/16/01	51.08	0	3334.01	3282.93	-	5.85	515	0.0113	4.44	0	0	0	0.155	0
04/15/02	52.68	0	3334.01	3281.33	-	8.83	1140	0.104	0	0	0	0	0	0
09/13/02	52.62	trace	3334.01	3281.39	-	-	-	-	-	-	-	-	-	-
MWD-6	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
08/29/01	-	0	3335.08	-	-	-	794	0	0	0	0	0	0	0
10/16/01	52.69	0	3335.08	3282.39	-	0.761	403	0	0.961	0	0	0	0.0119	0
04/15/02	54.08	0	3335.08	3281.00	-	0.143	758	0	0	0	0	0	0	0
09/13/02	54.03	0	3335.08	3281.05	-	0.120	798	0	3.17	0	0	0	0	0
MWD-7	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	51.71	0	3332.82	3281.11	-	0	936	0	0.608	0	0	0	0	0
09/13/02	51.69	0	3332.82	3281.13	-	0	7620	0	0.106	0	0	0	0	0
MWD-8	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	54.22	0	3335.97	3281.75	-	0	12800	0	0.117	0.0114	0	0	0	0
09/13/02	54.19	0	3335.97	3281.78	-	0	12600	0	0.142	0.0136	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
Texaco - Eunice #1 (South) Gas Plant
Lea County, New Mexico

MWD-9	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	52.46	0	3333.45	3280.99		0.0131	23400	0	0	0	0	0	0	0
09/13/02	52.33	0	3333.45	3281.12		0	22800	0	0	0	0	0	0	0
MWD-10	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	53.52	0	3334.92	3281.40		0.369	7210	0.0558	0.436	0	0	0	0	0
09/13/02	53.44	0	3334.92	3281.48		0.441	7800	0.0649	0.678	0	0	0	0	0
MWD-11	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	56.39	0	3338.24	3281.85		0	2580	0	0	0	0	0	0	0
09/13/02	56.33	0	3338.24	3281.91		0	2700	0	0	0	0	0	0	0
MWD-12	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	53.13	0	3334.08	3280.95		0.507	5130	0	0.478					
09/13/02	52.94	0	3334.08	3281.14		0.973	5300	0.0602	0.963					
MWD-13	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	51.24	0	3332.11	3280.87		0.002	27900	0	0	0	0	0	0	0
09/13/02	50.95	0	3332.11	3281.16		0	27100	0	0	0	0	0	0	0
MWD-14	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
04/15/02	52.59	0	3333.76	3281.17		1.77	20600	0	0.163	0	0	0	0	0
09/13/02	52.44	0	3333.76	3281.32		2.02	21300	0	0.243	0	0	0	0	0

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

WW-1	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	51.7	0	3332.04	3280.34		0.105	-	0	0.97	0	0	0	0	0
05/28/97	50.97	0	3332.04	3281.07		0.107	4500	0	0.6	0	0	1.4	0	0
12/07/98	51.21	0	3332.04	3280.83		-	-	-	-	-	-	-	-	-
08/23/00	49.24	0	3332.04	3282.80		-	3100	0	1.1	0	0	0	0	0
03/22/01	49.95	0	3332.04	3282.09		-	-	-	-	-	-	-	-	-
10/16/01	48.72	0	3332.04	3283.32		-	-	-	-	-	-	-	-	-
04/15/02	50.00	0	3332.04	3282.04		-	-	-	-	-	-	-	-	-
09/13/02	49.99	0	3332.04	3282.05		-	-	-	-	-	-	-	-	-
WW-2	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	49.30	0	3331.46	3282.16		0	-	0	0.49	0	0	0	0	0
05/28/97	49.94	0	3331.46	3281.52		0	200	0	0.6	0	0	0	0	0
12/07/98	50.31	0	3331.46	3281.15		-	-	-	-	-	-	-	-	-
08/23/00	48.16	0	3331.46	3283.30		-	-	-	-	-	-	-	-	-
03/22/01	49.66	0	3331.46	3281.80		-	-	-	-	-	-	-	-	-
10/16/01	48.54	0	3331.46	3282.92		-	-	-	-	-	-	-	-	-
04/15/02	50.24	0	3331.46	3281.22		-	-	-	-	-	-	-	-	-
09/13/02	50.21	0	3331.46	3281.25		-	-	-	-	-	-	-	-	-
WW-3	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	53.35	0	3334.45	3281.10		0.033	-	0	2	0	0	0	0	0
05/28/97	53.30	0	3334.45	3281.15		0.011	120	0	0.8	0	0	0	0	0
12/07/98	53.44	0	3334.45	3281.01		-	-	-	-	-	-	-	-	-
08/23/00	52.97	0	3334.45	3281.48		-	88	0	1.3	0	0	0	0	0
03/22/01	53.28	0	3334.45	3281.17		-	-	-	-	-	-	-	-	-
10/16/01	52.14	0	3334.45	3282.31		-	-	-	-	-	-	-	-	-
04/15/02	53.33	0	3334.45	3281.12		-	-	-	-	-	-	-	-	-
09/13/02	53.43	0	3334.45	3281.02		-	-	-	-	-	-	-	-	-
WW-4	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	-					0	-	0	0	0	0	0	0	0
05/28/97	56.51	0	3335.40	3278.89		0	-	0	0	0	0	0	0	0
12/07/98	56.45	0	3335.40	3278.95		-	-	-	-	-	-	-	-	-
08/23/00	56.46	0	3335.40	3278.94		-	-	-	-	-	-	-	-	-
03/22/01	56.31	0	3335.40	3279.09		-	-	-	-	-	-	-	-	-
10/16/01	55.29	0	3335.40	3280.11		-	-	-	-	-	-	-	-	-
04/15/02	56.40	0	3335.40	3279.00		-	-	-	-	-	-	-	-	-
09/13/02	56.44	0	3335.40	3278.96		-	-	-	-	-	-	-	-	-

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

WW-5	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	-	0				0.018	0	0	0	0	0	0	0	0
05/28/97	53.81	0	3334.18	3280.37		0.009	1200	0	0.3	0	0	0	0	0
12/07/98	53.90	0	3334.18	3280.28		-	-	-	-	-	-	-	-	-
08/23/00	53.54	0	3334.18	3280.64		0	1000	0	2.7	0	0	0	0	0
03/22/01	53.72	0	3334.18	3280.46		-	-	-	-	-	-	-	-	-
10/16/01	52.58	0	3334.18	3281.60		-	-	-	-	-	-	-	-	-
04/15/02	53.83	0	3334.18	3280.35		-	-	-	-	-	-	-	-	-
09/13/02	53.85	0	3334.18	3280.33		-	-	-	-	-	-	-	-	-
WW-6	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	-	0	3329.98	-		-	-	-	-	-	-	-	-	-
05/28/97	50.46	0	3329.98	3279.52		0	970	0	0.3	0	0	0	0	0
12/07/98	50.64	0	3329.98	3279.34		-	-	-	-	-	-	-	-	-
08/23/00	50.61	0	3329.98	3279.37		-	-	-	-	-	-	-	-	-
03/22/01	50.51	0	3329.98	3279.47		-	-	-	-	-	-	-	-	-
10/16/01	49.51	0	3329.98	3280.47		-	-	-	-	-	-	-	-	-
04/15/02	50.67	0	3329.98	3279.31		-	-	-	-	-	-	-	-	-
09/13/02	50.66	0	3329.98	3279.32		-	-	-	-	-	-	-	-	-
WW-7	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
09/10/96	-	0	3332.5	-		0	-	-	-	-	-	-	-	-
05/28/97	51.14	0	3332.5	3281.36		0	490	0	0.30	0	0	0	0	0
12/07/98	51.45	0	3332.5	3281.05		-	-	-	-	-	-	-	-	-
08/23/00	46.61	0	3332.5	3285.89		0	480	0	0.42	0	0	0	0	0
03/22/01	50.98	0	3332.5	3281.52		-	-	-	-	-	-	-	-	-
10/16/01	49.85	0	3332.5	3282.65		-	-	-	-	-	-	-	-	-
04/15/02	51.37	0	3332.5	3281.13		-	-	-	-	-	-	-	-	-
09/13/02	51.39	0	3332.5	3281.11		-	-	-	-	-	-	-	-	-

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

Table 1 - Cumulative - Waterlevels, Elevation, BTEX and Total Metals
 Texaco - Eunice #1 (South) Gas Plant
 Lea County, New Mexico

RW-1	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
12/07/98	53.66	0	3335.19	3281.53	-	-	-	-	-	-	-	-	-	-
08/23/00	53.20	0	3335.19	3281.99	-	-	-	-	-	-	-	-	-	-
03/22/01	53.17	0.01	3335.19	3282.02	3282.01	-	-	-	-	-	-	-	-	-
10/16/01	53.04	0.04	3335.19	3282.15	3282.11	-	-	-	-	-	-	-	-	-
04/15/02	53.22	0.06	3335.19	3281.97	3281.91	-	675	0	2.66	0	0	0	0	0
09/13/02	53.2	0.05	3335.19	3281.99	3281.94	-	-	-	-	-	-	-	-	-
RW-2	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	55.95	0	3337.84	3281.89	-	-	-	-	-	-	-	-	-	-
04/15/02	56.11	0	3337.84	3281.73	-	-	-	-	-	-	-	-	-	-
09/13/02	57.57	1.83	3337.84	3280.27	3278.44	-	-	-	-	-	-	-	-	-
RW-3	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	56.84	0.97	3338.06	3281.22	3280.25	-	-	-	-	-	-	-	-	-
04/15/02	57.92	2.04	3338.06	3280.14	3278.10	-	-	-	-	-	-	-	-	-
09/13/02	58.7	3.08	3338.06	3279.36	3276.28	-	-	-	-	-	-	-	-	-
RW-4	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	54.56	0	3335.19	3280.63	3280.63	-	-	-	-	-	-	-	-	-
04/15/02	54.83	0	3335.19	3280.36	3280.36	-	-	-	-	-	-	-	-	-
09/13/02	54.73	trace	3335.19	3280.46	-	-	-	-	-	-	-	-	-	-
RW-5	Water level	PSH Thickness	TOC Elev.	Water Elev.	Elev prod.	Benzene	Chloride	Arsenic	Barium	Chromium	Mercury	Silver	Selenium	Cadmium
10/16/01	58.8	3.53	3337.98	3279.18	3275.65	-	-	-	-	-	-	-	-	-
04/15/02	59.55	4.14	3337.98	3278.43	3274.29	-	-	-	-	-	-	-	-	-
09/13/02	59.61	4.28	3337.98	3278.37	3274.09	-	-	-	-	-	-	-	-	-

Concentrations in mg/l

(-) Not Analyzed

Water level, PSH thickness and Elevations - (ft)

APPENDIX A

Pilot Study & Remediation Equipment



G
consulting
scientists and
engineers

MFG, Inc.
12337 Jones Road
Suite 230
Houston, TX 77070-4844
281/890-5068
Fax: 281/890-5044

August 12, 2002

Mr. Terry Deeds
Project Manager
Alliance Maintenance & Services
3233 W. 11th Street
Houston, TX 77008

**RE: Analysis of Soil Vapor Extraction Pilot Test
Texaco Eunice #1 (South) Plant
Lea County, NM**

Dear Mr. Deeds:

MFG Inc. was asked to perform an analysis of the soil vapor extraction (SVE) pilot test data collected at the Texaco Eunice #1 (South) Plant on July 9, 2002. The site is located south of Hobbs in southeastern New Mexico. The SVE pilot test was conducted by Alliance Maintenance and Services (Alliance). No MFG personnel were on-site during the pilot test.

Pilot Test Background

The pilot test was performed on well RW-2 located south of a waste heater facility. Existing wells RW-1, MW-1, MW-2, MW-10, and MW-24 were to be used as observation wells. Pertinent well completion details are shown in the table below:

Well	Casing Diameter (inches)	Screened Interval (ft bgs)	DTW (feet below TOC)	Product Thickness (feet)	Distance to RW-2 (feet)
RW-1	6	50-110	53.22	0.06	27
RW-2	6	44.5-74.5	56.11	-	-
MW-1	2	45-60	55.07	2.17	28
MW-2	2	46-61	50.24	-	39
MW-10	4	46.4-66.4	52.92	-	59
MW-24	Unknown	Unknown	53.29	-	201

The zone being tested is comprised of fine-grained, loose sand with traces of sandstone. The top of this sand unit lies generally between 20-30 feet below ground surface (bgs) and extends down to about 100 feet bgs. The upper 20-30 feet of the subsurface is comprised of layers of dense, caliche, limestone, and cemented sandstone. Groundwater is generally encountered in the sand between 50 to 55 feet bgs. The site is not paved.

The pilot test on well RW-2 began on July 9, 2002 at 09:00 at an initial wellhead vacuum of 50 inches of water column (in. WC). Because of wellhead leaks at RW-2, appreciable vacuum was not seen in the observation wells until about 11:00. At 16:00, the wellhead vacuum at RW-2 was increased to 75 in. WC and at 21:00, the wellhead vacuum was increased to 100 in. WC. Wellhead vacuum levels were measured

at wells MW-1, MW-2, MW-10, and MW-24 every 30 minutes during the course of the test using a digital manometer.

A vacuum leak was discovered in well RW-1 after starting the pilot test. Well RW-1 lies between wells RW-2 and MW-10. Attempts to repair the leak were unsuccessful. It appears that the vacuum leak in well RW-1 also significantly reduced the apparent vacuum at well MW-10. Even after 5 hours of extraction, the vacuum seen at well MW-10 was only 0.01 in. WC. Therefore, no vacuum data were collected from well RW-1, and the vacuum data collected from well MW-10 were not considered reliable for this analysis.

Data Analysis

In analyzing the data, initial observation well vacuum levels appeared to achieve steady-state conditions after about 2 hours (13:00) under an extraction well vacuum of 50 in. WC. Again, observation well vacuum levels reached steady state conditions after about 2 hours (18:30) under an extraction well vacuum of 75 in. WC. However, increasing the extraction well vacuum to 100 in. WC did not result in steady state conditions in the observation wells before termination of the pilot test (21:00). Plots of observation well vacuum versus time are shown on Figure 1. Based on the steady state analysis, only data from the 50 in. WC and 75 in. WC portions of the test were evaluated further.

In reviewing the 50 in. WC and 75 in. WC portions of the test, the data from well MW-24 appeared suspect. Well MW-24 is 201 feet from RW-2 and saw a maximum vacuum of 0.15 in. WC during the 50 in. WC portion of the pilot test. Vacuum levels in MW-24 actually declined with increasing applied vacuum at RW-2, while vacuum levels in MW-1 and MW-2 increased with increasing vacuum at RW-2. This condition casts some doubt on whether the relatively low vacuum levels observed at MW-24 during the 50 in. WC portion of the pilot test were related to the vacuum being applied at RW-2. There was also a poor correlation between the MW-1, MW-2, and MW-24 data during the 50 in. WC and 75 in. WC portions of the test ($r^2 = 0.57$ and 0.67 , respectively).

Analyzing just the MW-1, and MW-2 data, the radius of influence (ROI) was calculated for predicted points where there is no vacuum, 0.1 in WC vacuum, and 1 in. WC vacuum under applied vacuums of 50 in. WC and 75 in. WC, respectively. The resulting ROI distances are given below:

Radii of Influence	50 in. WC Applied Vacuum	75 in. WC Applied Vacuum
ROI (0 in. WC)	44 ft.	45 ft.
ROI (0.1 in WC)	43 ft.	44 ft.
ROI (1 in. WC)	32 ft.	37 ft.

When using the ROI to estimate well spacing, it is advisable to utilize an ROI of less than the ROI at 0 in. WC in order to minimize zones of no or insufficient vacuum. Because of the dense overlying layers of caliche, sandstone, and limestone, and the overall depth of extraction, air leakage from the surface is expected to be minimal in this application.

The transmissivity of the formation is $22 \text{ ft}^2/\text{day}$ and at an unsaturated thickness of 36.11 feet (depth to water-top of sand), the air permeability is $0.6 \text{ ft}/\text{day}$.

Potential Data Quality Issues

There are a number of potential issues associated with using these pilot test results for a remediation system design. The issues are:

1. The ROI calculations are based on only two data points, and the observation wells are not optimally spaced. The closest observation well to the extraction well is RW-1 at 27 feet. This well had an unresolved casing vacuum leak. Well MW-1 was 28 feet from the extraction well while well MW-2 was 39 feet from the extraction well. A better layout of the wells would be to have an observation well closer to the extraction well, i.e., 10 feet. Also because of the well RW-1 vacuum leak, the data from well MW-10 (59 feet from the extraction well) were unusable. A well at about this distance (nearer the expected ROI) provides important information.

2. The air flow rate did not increase with increasing extraction well vacuum. The flow rate should be directly proportional to the applied vacuum. Based on the physical description in the boring logs, the strata tested should have good air permeability (loose, fine-grained sand). Given these conditions, a higher flow rate would be expected. Several factors could contribute to the depressed flow rate:

a. The recovery well RW-2 is screened through the water table. Under static conditions, the effective screen length is 11.61 feet (depth to water - top of the screened interval). Under a 50 in. WC applied vacuum, water levels in RW-2 are expected to rise by about 4.2 feet. In this case more than one-third of the effective screen length will become submerged. At a 100 in. WC applied vacuum, the water level rise would be about 8.3 feet which is more than 70% of the effective screen length. The blinding of the screen is probably the prime reason why the flow rate did not increase with increasing vacuum.

b. The screened interval for RW-2 is only partially penetrating. The top of the fine-grained sand strata begins between 20 and 30 feet bgs according to the boring log. The boring log only describes the strata in 10-foot intervals and there is no graphic lithologic log, so it is difficult to tell where the top of the sand actually begins. Assuming that the top of the sand is at 30 feet bgs, there is 26.11 feet of unsaturated sand. At 50 in. WC, only 7.4 feet of screen is exposed to this strata (28% penetration). A partially penetrating well screen results in vertical flow within the formation and lessens well efficiency. The well efficiency (ratio of predicted vacuum at the well casing to actual applied vacuum) is rather low at 32%. The low well efficiency indicates that the partial penetration did not allow the applied vacuum to produce the level of airflow expected from this type of formation.

3. Because of the relatively low applied vacuum levels during this test, extrapolation of these data to higher vacuum levels is not advisable due to the air compression and turbulent flow effects at higher vacuum levels, i.e., above 100 in. WC. If a high vacuum-type system is intended for this site, a pilot test at a similar vacuum is recommended.

MFG appreciates the opportunity to assist you with this project. If you have any questions, please contact me at (281) 890-5068.

Sincerely,

MFG, Inc.



Mike Schultz, P.E.
Senior Engineer

Cc: Attachments: Figure 1 Observed Vacuum vs. Time
 Figure 2 Observed Vacuum vs. Distance at 50 in. WC
 Figure 3 Observed Vacuum vs. Distance at 75 in. WC

Figure 1
Observed Vacuum vs. Time
Texaco-Eunice #1 (South) Plant

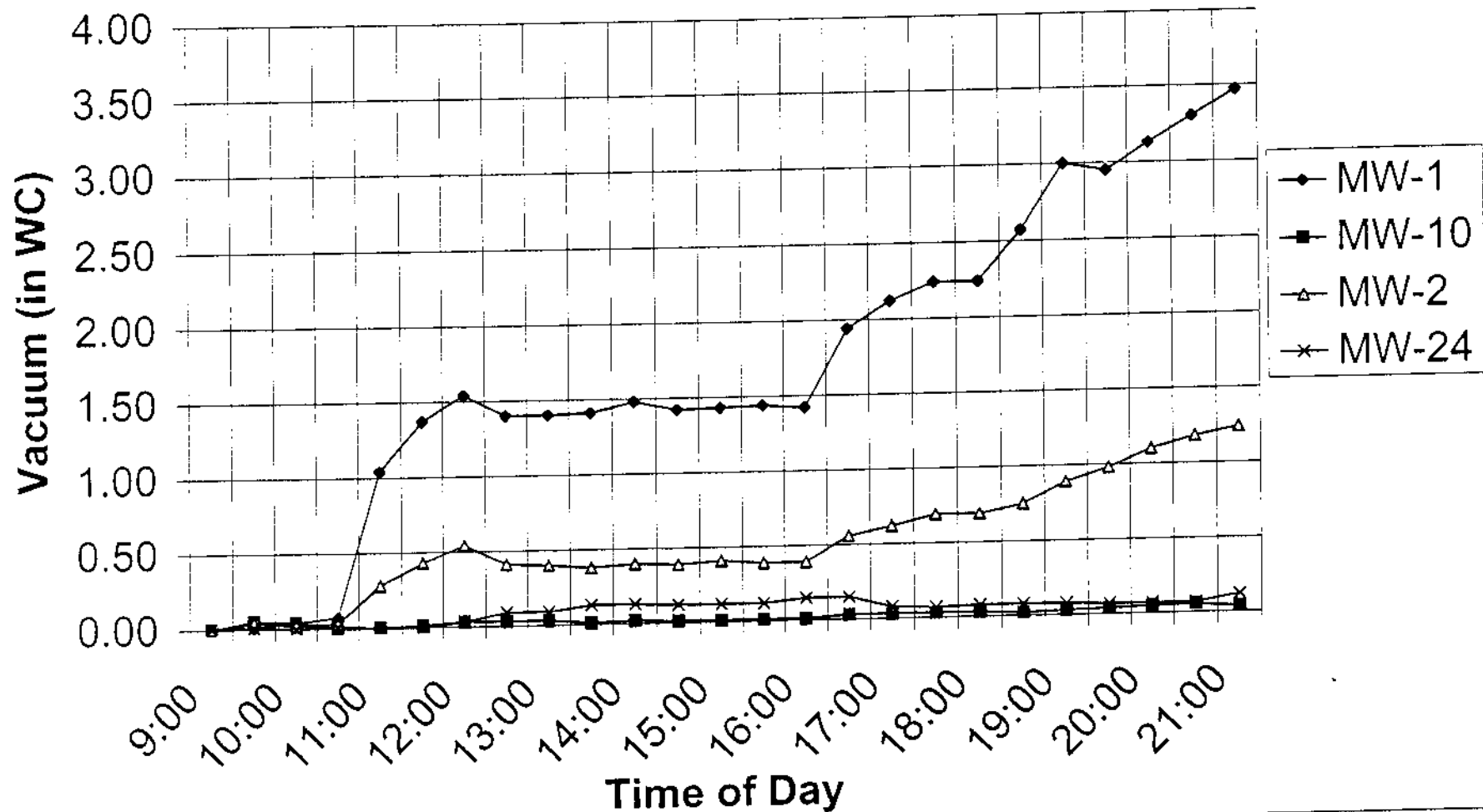
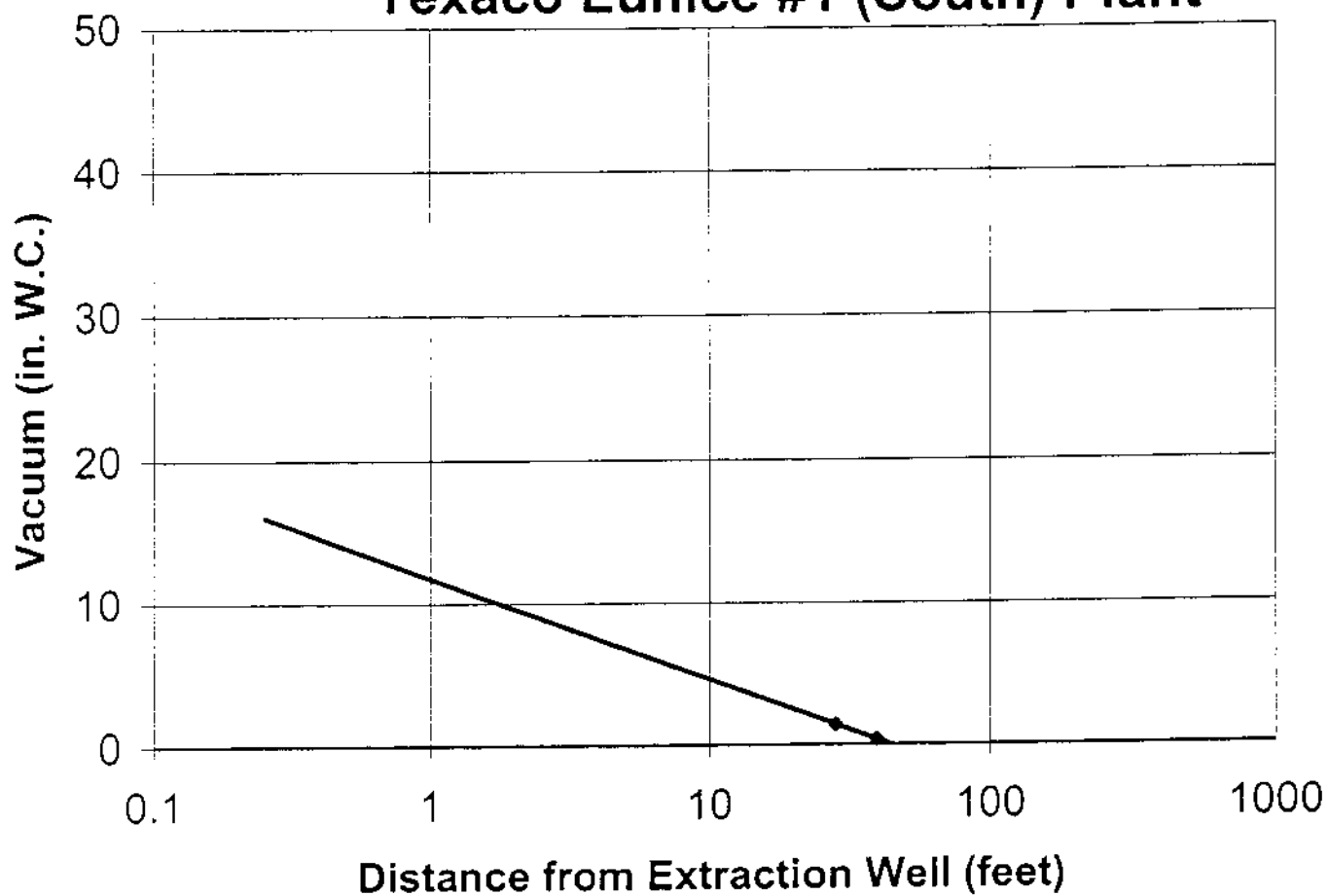


Figure 2
Observed Vacuum vs. Distance at 50 in. W.C.
Texaco Eunice #1 (South) Plant



$$y = -3.1084\ln(x) + 11.778$$
$$R^2 = 1$$

Figure 3
Observed Vacuum vs. Distance at 75 in. W.C.
Texaco Eunice #1 (South) Plant

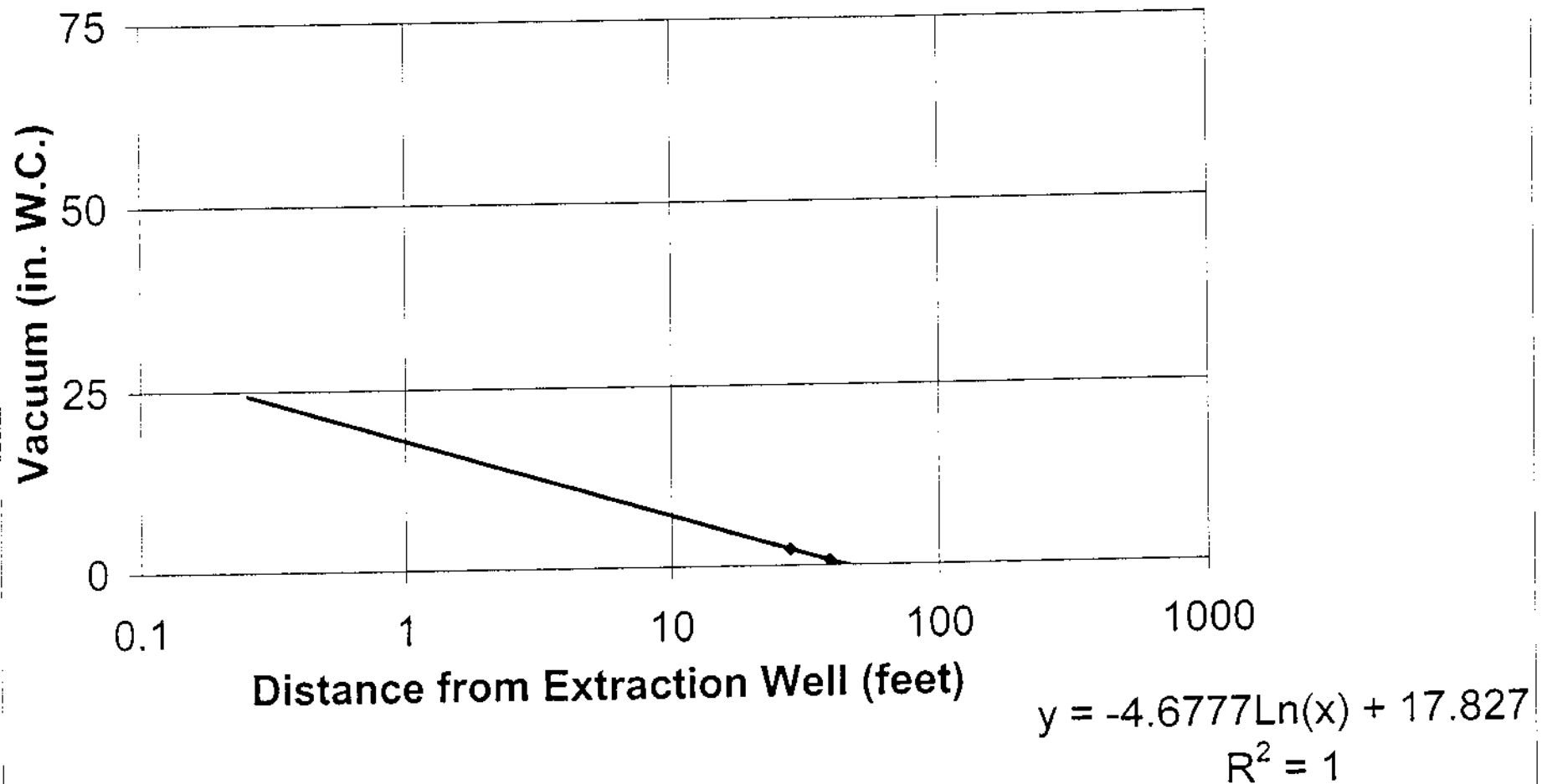


Table 1
Depths to Groundwater
Alliance Maintenance and Services, Inc.

Facility Name	Texaco South Plant	Study Date	9-Jul-02	LPST #	NA
Facility Address	Eunice, New Mexico	Project Number	99142	Facility ID	NA

TIME:	Before Start of Study			Not Used			End of Study			End of Study	
Well ID #	Depth to PSH from TOC.	Depth of Water from TOC.	PSH. Thickness	Depth to PSH from TOC.	Depth of Water from TOC.	PSH. Thickness	Depth to PSH from TOC.	Depth of Water from TOC.	PSH. Thickness	Water Ending Difference	PSH. Ending Difference
MW-1	52.93	55.13	2.20				52.87	55.03	2.16	-0.10	-0.04
MW-2	53.19	55.74	2.55				53.13	55.74	2.61	0.00	0.06
MW-10		52.99	0.00					53.02	0.00	0.03	0.00
MW-24		53.33	0.00					53.3	0.00	-0.03	0.00
RW-1	53.27	53.76	0.49				53.25	53.77	0.52	0.01	0.03
RW-2		56.14	0.00					54.8	0.00	-1.34	0.00

5.24

5.29

Table 2
Equipment Operation
Alliance Maintenance and Services, Inc.

Facility Name		Texaco South Plant						Event Date		9-Jul-02		LPST #		NA	
Facility Address		Eunice, New Mexico						Event Number		99142		Facility ID		NA	
Test Time	Thermox	Vacuum Test	Vacuum		Vacuum Dual-Vac	Vacuum Dual-Vac	King Ga. Dual-Vac Flow Rate	Therm-Ox Flow Rate	Therm-Ox, Burn Temp	External Fuel Use % of Tank	External Fuel Use % of Tank	Dilution #1 Pitot Tube on Manual	Dilution #2 Pitot Tube Auto Valve	Dilution Pitot Tube Totals	
24 hr. Clock	Hr. meter	Inches.WC.	Inches.Hg.	SCFM	Inches.WC.	Inches.Hg.	SCFM	SCFM	Fahrenheit	Propane#1	Propane#2	Inches.WC.	Inches.WC.	Inches.WC.	ChartCFM
9:00	Start									75%	75%				
10:00	1.00				260	17.0	30	30	1412	65%	75%	0.06	0.25		400
11:00	2.00				100	6.0	60	60	1420	65%	73%	0.06	0.30		429
12:00	3.00				100	6.0	60	60	1414	65%	70%	0.06	0.30		429
13:00	4.00				100	6.0	60		1418	65%	65%	0.06	0.30		429
14:00	5.00				100	6.0	65		1417	65%	60%	0.06	0.30		429
15:00	6.00				100	6.0	65		1418	65%	60%	0.06	0.30		429
16:00	7.00				100	6.0	65		1420	65%	60%	0.06	0.30		429
17:00	8.00				100	6.0	65		1420	65%	60%	0.06	0.30		429
18:00	9.00				100	6.0	65		1434	65%	60%	0.06	0.30		429
19:00	10.00				130	8.0	60	60	1422	65%	55%	0.06	0.30		429
20:00	11.00				130	8.0	60	60	1425	65%	55%	0.06	0.30		429
21:00					130	8.0	60	60	1424	65%	50%	0.06	0.30		429
	End														265833
Average per Hr.	11.00	0.00	0.00	0.00	20.33	7.42	58.58	486.48	1420.33	65.40%	62.5%	0.06	0.30	0.36	

Start Time	Shut Down Time	Thermox Run Time
9:00	21:00	12:00

Adjustments		BTU's Required per Hr.	BTU's Required for the Day
BTU/SCFM/Hr			
2300	486.17	1118183.3	13415200

Event Average	
SCFM	SCFM
59.58	426.5833
Dilution Ratio	7.159441

Propane Fuel Used In % and Pounds		
Average %	Pounds	Total BTU's
Tank # 1		3183075
Tank # 2		
Total Average	17.5%	148.05

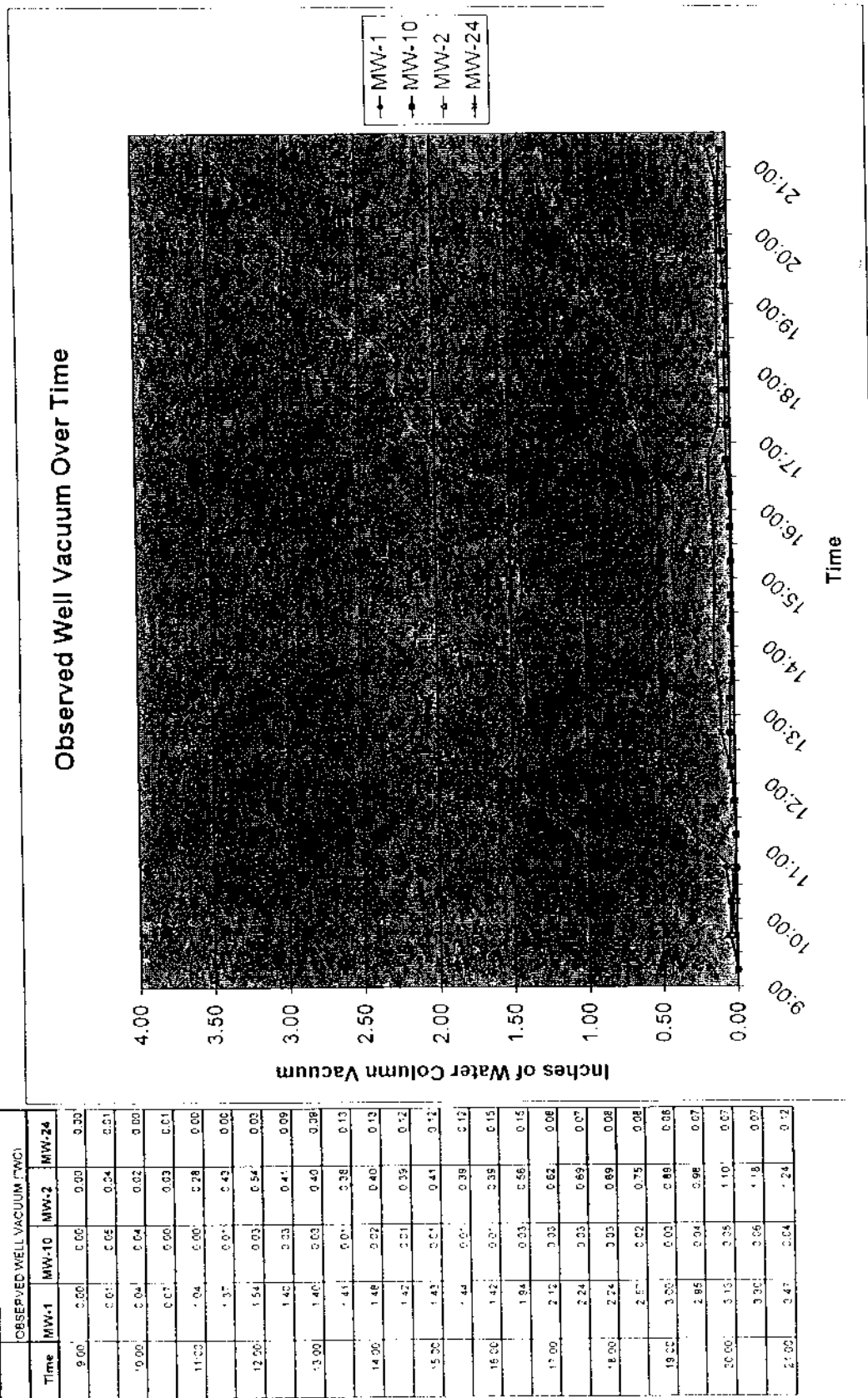
Gals used 35

Table 3
Field Parameters
Alliance Maintenance and Services, Inc.

Facility Name	Test Wells at Sample Points	Event Data	7/30/02	U-274	1st
Facility Address	Event Number	80142	NA	NA	NA
Test	Test Wells at Sample Points	(P&M at well head)			
1st	1st	1st	1st	1st	1st
2nd	2nd	2nd	2nd	2nd	2nd
3rd	3rd	3rd	3rd	3rd	3rd
4th	4th	4th	4th	4th	4th
5th	5th	5th	5th	5th	5th
6th	6th	6th	6th	6th	6th
7th	7th	7th	7th	7th	7th
8th	8th	8th	8th	8th	8th
9th	9th	9th	9th	9th	9th
10th	10th	10th	10th	10th	10th
11th	11th	11th	11th	11th	11th
12th	12th	12th	12th	12th	12th
13th	13th	13th	13th	13th	13th
14th	14th	14th	14th	14th	14th
15th	15th	15th	15th	15th	15th
16th	16th	16th	16th	16th	16th
17th	17th	17th	17th	17th	17th
18th	18th	18th	18th	18th	18th
19th	19th	19th	19th	19th	19th
20th	20th	20th	20th	20th	20th
21st	21st	21st	21st	21st	21st
22nd	22nd	22nd	22nd	22nd	22nd
23rd	23rd	23rd	23rd	23rd	23rd
24th	24th	24th	24th	24th	24th
25th	25th	25th	25th	25th	25th
26th	26th	26th	26th	26th	26th
27th	27th	27th	27th	27th	27th
28th	28th	28th	28th	28th	28th
29th	29th	29th	29th	29th	29th
30th	30th	30th	30th	30th	30th
31st	31st	31st	31st	31st	31st
32nd	32nd	32nd	32nd	32nd	32nd
33rd	33rd	33rd	33rd	33rd	33rd
34th	34th	34th	34th	34th	34th
35th	35th	35th	35th	35th	35th
36th	36th	36th	36th	36th	36th
37th	37th	37th	37th	37th	37th
38th	38th	38th	38th	38th	38th
39th	39th	39th	39th	39th	39th
40th	40th	40th	40th	40th	40th
41st	41st	41st	41st	41st	41st
42nd	42nd	42nd	42nd	42nd	42nd
43rd	43rd	43rd	43rd	43rd	43rd
44th	44th	44th	44th	44th	44th
45th	45th	45th	45th	45th	45th
46th	46th	46th	46th	46th	46th
47th	47th	47th	47th	47th	47th
48th	48th	48th	48th	48th	48th
49th	49th	49th	49th	49th	49th
50th	50th	50th	50th	50th	50th
51st	51st	51st	51st	51st	51st
52nd	52nd	52nd	52nd	52nd	52nd
53rd	53rd	53rd	53rd	53rd	53rd
54th	54th	54th	54th	54th	54th
55th	55th	55th	55th	55th	55th
56th	56th	56th	56th	56th	56th
57th	57th	57th	57th	57th	57th
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61st	61st	61st	61st	61st	61st
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63rd	63rd	63rd	63rd	63rd	63rd
64th	64th	64th	64th	64th	64th
65th	65th	65th	65th	65th	65th
66th	66th	66th	66th	66th	66th
67th	67th	67th	67th	67th	67th
68th	68th	68th	68th	68th	68th
69th	69th	69th	69th	69th	69th
70th	70th	70th	70th	70th	70th
71st	71st	71st	71st	71st	71st
72nd	72nd	72nd	72nd	72nd	72nd
73rd	73rd	73rd	73rd	73rd	73rd
74th	74th	74th	74th	74th	74th
75th	75th	75th	75th	75th	75th
76th	76th	76th	76th	76th	76th
77th	77th	77th	77th	77th	77th
78th	78th	78th	78th	78th	78th
79th	79th	79th	79th	79th	79th
80th	80th	80th	80th	80th	80th
81st	81st	81st	81st	81st	81st
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88th	88th	88th	88th	88th	88th
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90th	90th	90th	90th	90th	90th
91st	91st	91st	91st	91st	91st
92nd	92nd	92nd	92nd	92nd	92nd
93rd	93rd	93rd	93rd	93rd	93rd
94th	94th	94th	94th	94th	94th
95th	95th	95th	95th	95th	95th
96th	96th	96th	96th	96th	96th
97th	97th	97th	97th	97th	97th
98th	98th	98th	98th	98th	98th
99th	99th	99th	99th	99th	99th
100th	100th	100th	100th	100th	100th

Table 4
Monitor Well Vacuum/Pressure Over Time
Alliance Maintenance and Services, Inc.

Facility Name	Texasco South Plant	Event Date	9-Jul-02	LPST #	NA
Facility Address	Euless, New Mexico	Event Number	99142	Facility ID	NA



Dual Phase Extraction Day Event Summary
Alliance Maintenance and Services, Inc.

Facility Name		Texaco South Plant							Event Date		7/9/02		LPST #		NA		Product Type Removed	
Facility Address		Eunice, New Mexico							Event Number		99142		Facility ID		NA		Gasoline	
Test or Read Time	Thermox	Vacuum Maxi-Vac	Vacuum Maxi-Vac	King Ga. Maxi-Vac Flow	Vacuum Dual-Vac	Vacuum Dual-Vac	King Ga. Dual-Vac Flow Rate	Therm-Ox Flow Rate	Therm-Ox, Burn	Conversion	Average	Vapor	Barometric Pressure & Temperature		Total Fuel Pumped /Siphoned	Total Fuel Removal Field Tests	Total Water Removed	Effluent Sample
									Temp	TPH ppmv to lbs/hr	PPM, All E / Wells	Removal Rate						
24 hr. M Time	Hr. meter	Inches WC	Inches Hg	SCFM	Inches WC	Inches Hg	SCFM	SCFM	Fahrenheit	TPH	PPM	Lbs./Hr/CFM	Inches. Hg.	Fahrenheit	Gal's.	Gal's.	Gal in Tank	PPM
10:00	1.00	-	-	-	260	17	30	430	1,412	1.75E-05	50,000	26.32	29.61	79	-	5.06	-	64
11:00	2.00	-	-	-	100	6	60	489	1,420	1.75E-05	50,000	52.6	29.61	86	-	10.12	-	59
12:00	3.00	-	-	-	100	6	60	489	1,414	1.75E-05	50,000	52.6	29.61	88	-	10.12	-	42
13:00	4.00	-	-	-	100	6	60	489	1,418	1.75E-05	50,000	52.6	29.58	89	-	10.12	-	49
14:00	5.00	-	-	-	100	6	65	494	1,417	1.75E-05	50,000	57.0	29.55	91	-	10.97	-	46
15:00	6.00	-	-	-	100	6	65	494	1,418	1.75E-05	50,000	57.0	29.55	91	-	10.97	-	51
16:00	7.00	-	-	-	100	6	65	494	1,420	1.75E-05	50,000	57.0	29.52	95	-	10.97	-	32
17:00	8.00	-	-	-	100	6	65	494	1,420	1.75E-05	50,000	57.0	29.49	93	-	10.97	-	89
18:00	9.00	-	-	-	100	6	65	494	1,434	1.75E-05	50,000	57.0	29.46	93	-	10.97	-	69
19:00	10.00	-	-	-	130	8	60	489	1,422	1.75E-05	50,000	52.6	29.46	91	-	10.12	-	71
20:00	11.00	-	-	-	130	8	60	489	1,425	1.75E-05	50,000	52.6	29.49	89	-	10.12	-	39
21:00	12.00	-	-	-	130	8	60	489	1,424	1.75E-05	50,000	52.6	29.49	88	-	10.12	-	21
Average/Hr.	11.00	0.00	0.00	0.00	120.83	7.42	59.58	729.25	2130.50		75000.00	631				120.65		79.00
														Extracted		LBS		Gal's

Technical Specifications	
Executed By:	Alliance Maintenance & Services Inc.
Equipment Operated By:	Geronimo Serna
Field Testing By:	Mike Wilson
System Equipment:	The OXY-VAC II
Thermal Oxidizer:	1000 SCFM Design Flow rate. Requires 2.4mm BTU/hr. / Max Burners Output 3.0 mm BTU/hr.
Vacuum System's Two (2):	QuadVac 0/25 Hg. & Maxi-Vac 17/29 Hg
Test Meters:	LANDTEC GA-90 Gas Analyzer
	MicroFID /S / (PE PHOTOVAC)
Calibration Gas:	Zero Air and Methane
Date Meter Calibrated:	7/9/02
Sample Process Vac-Box:	Tedlar Bags

Theoretical Fuel Consumption		LB's/HR	BTU's
Value Applied to (old) Gasoline BTU/LB.		1	18,500
Value Applied to Propane BTU/LB.		1	21,500
Vapor Value Per (PPMV 11,000)		0.116	2,300
Weight & BTU's of gasoline per US Gallon		5.2	110,250
Unit Min. Fuel Requirement @ 1000SCFM to maintain 1400 deg. Operating Temp. BTU/HR. (assuming fuel type Old Gasoline @ 18500 BTU/LB.)		627.38	2,300,000
UNIT MIN. Required Propane LB/ BTU		106.98	2,300,000

Vapor Phase Product Removed Using Laboratory Data:	
Gasoline	120.65
Propane	3.183,075
Water	79.00
Other	

Extracted		LBS.	Gal's
Vaporized Hydrocarbons		631	121
Liquid Hydrocarbons		0	0
Total Fuel Extracted		631	121
Propane Used as Supplemental Fuel		3,183,075	35.00
7,093,710 BTU's		Unit BTU's	
Thermal Oxidizer run Time @ 1000cfm and Fuel Required			
Hrs/BTU's	12.00	27,600,000	303.48
Adjustments	13,416,200	(14,181,800)	-155.94
Total Fuel Required BTU's		13,416,200	148
Supplemental Fuel Used		3,183,075	35.00
BTU Shortage		10,233,125	106
Removed Water Stored in Poly Tank			0

On Board Propane Tank	200 Gallons or 846 lbs. @ 100%
-----------------------	--------------------------------

Base Assumptions

- * Weight and BTU Values of Gasoline and Propane used in this chart are taken from Management Resources & are the copyright of Gas Plants, Inc.
- * Theoretical Fuel Consumption is based on Data from ThermTech Charts for Combustion Air Burners.
- * In Calculating pounds of Vaporized Hydrocarbons removed, the minimum fuel requirement to maintain 1400oF for run time on site is figured and the Propane used is then subtracted from that amount.
- * Liquid Hydrocarbons or fuels quantity in this sheet has been accumulated in a holding tank or tanks, and has been pumped or siphoned and were not vaporized in that process.
- * The velocity indicated is for dry air at 70oF., 29.9" Barometric Pressure and a resulting density of .075# / cu. ft. For air temperature other than 70oF. Refer to the

Abbreviations

MW= Monitoring Well	LB/LB's = Pounds
Hg = Mercury	Gal = Gallon
WC = Water Column	Hr = Hour
CFM = Cubic Feet Minute	Min = Minute
PPM = Parts per Million	014020:32 PM

Table 6

Alliance Maintenance & Services, Inc.

Calculated Vapor Concentration from Laboratory Data

Facility Name	Texaco South Plant	Event Date	9-Jul-02	LPST Number
Facility Address	Eunice, New Mexico	Event Number	99142	NA
Lab Name	A 4 Scientific Laboratory			
	Time	Results	Units	
One hour from beginning	10:00	369000	ug/l	
Midway through event	16:00	437000	ug/l	
One hour prior to ending	21:00	352500	(avg)ug/l	
Average SCFM to Thermal Oxidizer			59.58	
Average Lab results			386166.7	
ug/l X 28.32 liters per cubic foot	equals	ug/cu.ft.		
ug/cubic foot X average SCFM	equals	ug/minute		
ug/minute /1,000,000,000	equals	kg/minute		
kg/minute X 2.20462	equals	pounds/minute		
pounds/minute X 720 minutes	equals	lbs per 12 hour event		
pound per 12 hours/5.2 lb/gallon	equals	gallons/12 hour event		
10936240.9	ug/cu.ft.			
59.58	average SCFM			
651617690	ug/min.			
0.65161769	kg/min			
469,164736	kg/12 hours			
1034.32996	lbs/12 hours			
198.909608	gals/12 hours			
1034.33	Pounds per 12 Hour Period		198.91	Gallons per 12 Hour Period

Estimated Vapor Recovery Over Time	
199 gallons per 12 hour period	1034 lbs
398 gallons per 24 hour period	2068 lbs
145,270 gallons per year	755404 lbs

Alvin

A PLUS GAS COMPANY
A-B GAS CO.

4722 W. 18TH STREET AT HEMPSTEAD HWY
HOUSTON, TEXAS 77092

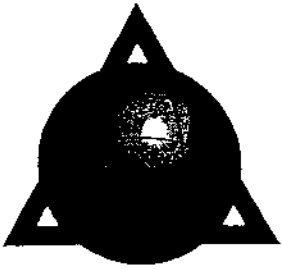
PHONE 713-682-5555 EMAIL: freshtrout@juno.com FAX 713-682-3675

57002		4-12-02	
39	Gallons	☐ PROPANE UN1075 ☐ REFILL ☐ NEW/PURGE & ODORANT	46.80
1	Recycle Fee		6.00
DEPT 950 - LF/E			SUBTOTAL 52.80
GL#			SALES TAX 50
DESCRIPTION			53.30
APPROVED			

SHIPPING COPY

TERMS: NET 30 DAYS. PAST DUE ACCOUNTS SUBJECT TO A LATE CHARGE OF 1% PER MONTH, NOT TO EXCEED 18% PER ANNUM.
NOT RESPONSIBLE FOR ITEMS LEFT OVER 30 DAYS. ALL CLAIMS ON RETURNED GOODS MUST BE COUNTERSIGNED BY THIS SIGNATURE.

RECEIVED BY *Herminia Sosa*



AJAX
Environmental & Safety Supply

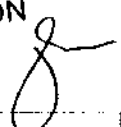
Invoice

2537 S. Gessner Ste. 238
Houston, TX 77063

DATE	INVOICE #
7/18/2002	3561

BILL TO
Alliance Maintenance Accounts Payable 3233 W. 11th Ste. 100 Houston, Texas 77008

SHIP TO
Terry Deeds Jobs: 991141 991142 991143

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
	Net 30	JJ	7/3/2002	w/call		
QUANTITY	ITEM CODE	DESCRIPTION			PRICE EACH	AMOUNT
1	22003006	5 PSI Transducer			290.00	290.00T
1	2203007	PS9800 Pressure Transducer 0-15 PSI			290.00	290.00T
1	2203008	PS9800 Pressure Transducer 0-15 PSI			290.00	290.00T
1	2203009	PS9800 Pressure Transducer 0-15 PSI			290.00	290.00T
1	2404	DL-2 Channel Aquastar Datalogger			270.00	270.00T
1	2405	DL-2 Channel AquaStar Data Logger			270.00	270.00T
		Rental 7/5/02 to 7/15/02				
		State Sales Tax			8.25%	140.25
RECEIVED JUL 22 2002 DEPT 950 - DPVE GL # DESCRIPTION APPROVED  99142 1/2 99143 1/2						
Thank you for your business.					Total	\$1,840.25



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281)292-5277
FAX: (281)292-2481

July 19, 2002

TERRY J. DEEDS
ALLIANCE MAINTENANCE & SERVICES, INC.
3355 W. 11TH, SUITE 100
HOUSTON, TX 77008

REFERENCE:

Project.....: TEXACO SOUTH PLANT
Project Number.....: 99142
Lab Episode Number.....: 1738
Date Received.....: 7/12/02

Dear TERRY J. DEEDS:

Enclosed is the analytical Report for the project referenced above. The following sample(s) are included in the report.

INF-1000	INF-1600	EFF-1600	INF-2000
INF-2100			

All the holding times were met for the tests performed on these samples. Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting A4 SCIENTIFIC for your laboratory needs on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Mark Masino
Accounts Manager

A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
(281) 292-5277

Invoice

Number: AR2001543

Date: July 30, 2002

Bill To:

TERRY DEEDS
ALLIANCE MAINTENANCE & SERVICES, INC.
3233 W. 11TH, SUITE 1000
HOUSTON, TX 77008

Ship To:

TERRY DEEDS
ALLIANCE MAINTENANCE & SERVICES, INC.
3233 W. 11TH, SUITE 1000
HOUSTON, TX 77008

PO Number	Terms	Project	Lab Episode	Date Received
	NET 30	TEXACO SOUTH PLANT	1738	07/12/02

Item	Description	QTY	Unit Price	Amount
705	TPH VAPOR - NIOSH 1501	3.00	62.50	187.50
309	BTEX VAPOR	1.00	62.50	62.50
	EXTENDED REF. GASSESS	1.00	250.00	250.00
DEPT 950 - DPVE 99142 GL # DESCRIPTION APPROVED 				
Total				\$500.00

Thank you for your business
Please reference our invoice number on your payment

ANALYTICAL REPORT

CLIENT PROJECT.....: TEXACO SOUTH PLANT
CLIENT PROJECT NUMBER....: 99142

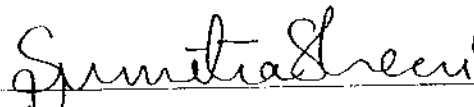
Prepared For:

ALLIANCE MAINTENANCE & SERVICES, INC.
3355 W. 11TH, SUITE 100
HOUSTON, TX 77008

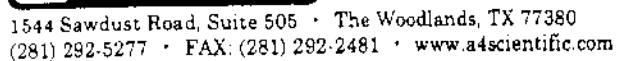
ATTENTION: TERRY J. DEEDS

Date: 7/19/2002

LAB EPISODE NUMBER: 1738
Date Received.....: 7/12/02
Lab Project ID.....: Q1207A


Signature

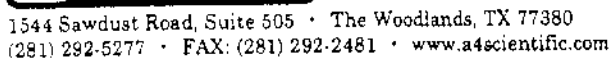
Sumitra Sheeri
Quality Assurance Coordinator
(281) 292-5277
sumitra@a4scientific.com



CoC No. _____

Lab Project No. _____

[illegible]



CoC No. 172 A

Lab Project No. _____

[illegible]



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
Page 1 of 1

LABORATORY REPORT

TPH BY NIOSH-1501

CLIENT NAME	: ALLIANCE MAINTENANCE & SERV	CLIENT SAMPLE ID	: INF-1000
PROJECT NAME	: TEXACO SOUTH PLANT	LAB SAMPLE ID	: 1738.001
PROJECT NUMBER	: 99142	METHOD REFERENCE	: NIOSH-1501
DATE SAMPLED	: 6/9/02	DATE RECEIVED	: 7/12/02
SAMPLE MATRIX	: GAS	PRINTED ON	: 7/15/2002 10:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH-(>nC12-nC28)	5.00	UG/L	ND	UG/L	
TPH-(>nC28-nC35)	5.00	UG/L	ND	UG/L	
TPH-(nC6-nC12)	5.00	UG/L	369000	UG/L	

QUALITY CONTROL DATA



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

TPH BY NIOSH-1501

CLIENT NAME	: ALLIANCE MAINTENANCE & SERV	CLIENT SAMPLE ID	: INF-1600
PROJECT NAME	: TEXACO SOUTH PLANT	LAB SAMPLE ID	: 1738.002
PROJECT NUMBER	: 99142	METHOD REFERENCE	: NIOSH-1501
DATE SAMPLED	: 6/9/02	DATE RECEIVED	: 7/12/02
SAMPLE MATRIX	: GAS	PRINTED ON	: 7/15/2002 10:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH - (>nC12-nC28)	5.00	UG/L	ND	UG/L	
TPH - (>nC28-nC35)	5.00	UG/L	ND	UG/L	
TPH - (nC6-nC12)	5.00	UG/L	437000	UG/L	

QUALITY CONTROL DATA



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

TPH BY NIOSH-1501

CLIENT NAME	: ALLIANCE MAINTENANCE & SERV	CLIENT SAMPLE ID	: INF-2100
PROJECT NAME	: TEXACO SOUTH PLANT	LAB SAMPLE ID	: 1738.005
PROJECT NUMBER	: 99142	METHOD REFERENCE	: NIOSH-1501
DATE SAMPLED	: 6/9/02	DATE RECEIVED	: 7/12/02
SAMPLE MATRIX	: GAS	PRINTED ON	: 7/15/2002 10:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH- (>nC12-nC28)	5.00	UG/L	ND	UG/L	
TPH- (>nC28-nC35)	5.00	UG/L	ND	UG/L	
TPH- (nC6-nC12)	5.00	UG/L	351000	UG/L	

QUALITY CONTROL DATA



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380

Page 1 of 1

LABORATORY REPORT

TPH BY NIOSH-1501

CLIENT NAME :	CLIENT SAMPLE ID : Prep Blank
PROJECT NAME :	LAB SAMPLE ID : TPHB141
PROJECT NUMBER :	METHOD REFERENCE : NIOSH-1501
DATE SAMPLED :	DATE RECEIVED :
SAMPLE MATRIX : GAS	PRINTED ON : 7/15/2002 10:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH- (>nC12-nC28)	5.00	UG/L	ND	UG/L	
TPH- (>nC28-nC35)	5.00	UG/L	ND	UG/L	
TPH- (nC6-nC12)	5.00	UG/L	ND	UG/L	

QUALITY CONTROL DATA



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LABORATORY REPORT

TPH BY NIOSH-1501

CLIENT NAME	: ALLIANCE MAINTENANCE & SERV	CLIENT SAMPLE ID	: INF-2100DUP
PROJECT NAME	: TEXACO SOUTH PLANT	LAB SAMPLE ID	: 1738.005DUP1
PROJECT NUMBER	: 99142	METHOD REFERENCE	: NIOSH-1501
DATE SAMPLED	: 6/9/02	DATE RECEIVED	: 7/12/02
SAMPLE MATRIX	: GAS	PRINTED ON	: 7/15/2002 10:24

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
TPH- (>nC12-nC28)	5.00	UG/L	ND	UG/L	
TPH- (>nC28-nC35)	5.00	UG/L	ND	UG/L	
TPH- (nC6-nC12)	5.00	UG/L	354000	UG/L	

QUALITY CONTROL DATA

LABORATORY REPORT

BTEX BY NIOSH-1501

CLIENT NAME	: ALLIANCE MAINTENANCE & SERV	CLIENT SAMPLE ID	: EFF-1600
PROJECT NAME	: TEXACO SOUTH PLANT	LAB SAMPLE ID	: 1738.003
PROJECT NUMBER	: 99142	METHOD REFERENCE	: NIOSH-1501
DATE SAMPLED	: 6/9/02	DATE RECEIVED	: 7/12/02
SAMPLE MATRIX	: GAS	PRINTED ON	: 7/15/2002 10:32

ANALYST	: JL	DATE ANALYZED	: 07/12/02
DILUTION	: 1	INSTRUMENT FILE	: B02690
INSTRUMENT ID	: B05890	TIME ANALYZED	: 19:23

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	0.050	UG/L	8.66	UG/L	
Ethylbenzene	0.050	UG/L	1.23	UG/L	
Toluene	0.050	UG/L	13.4	UG/L	
Xylene (total)	0.050	UG/L	0.423	UG/L	

QUALITY CONTROL DATA



1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
Page 1 of 1

LABORATORY REPORT

BTEX BY NIOSH-1501

CLIENT NAME :	CLIENT SAMPLE ID : Prep Blank
PROJECT NAME :	LAB SAMPLE ID : TPHB141
PROJECT NUMBER :	METHOD REFERENCE : NIOSH-1501
DATE SAMPLED :	DATE RECEIVED :
SAMPLE MATRIX : GAS	PRINTED ON : 7/15/2002 10:32

ANALYST : JL	DATE ANALYZED : 07/12/02
DILUTION : 1	INSTRUMENT FILE : B02690
INSTRUMENT ID : B05890	TIME ANALYZED : 19:23

PARAMETER	QUANTITATION LIMIT		RESULTS		QUALIFIER
Benzene	0.050	UG/L	ND	UG/L	
Ethylbenzene	0.050	UG/L	ND	UG/L	
Toluene	0.050	UG/L	ND	UG/L	
Xylene (total)	0.050	UG/L	ND	UG/L	

QUALITY CONTROL DATA



8210 Mosley Rd.
Houston, TX 77075
713 943-9776 Telephone
713 943-3846 Facsimile

CORE LABORATORIES

CHRISTY WESTELL
A4 SCIENTIFIC
1544 SAYDUST RD ST 505
THE WOODLANDS, TX 77380

Sample Number: 122995-001
Sample Date: 7/9/02 8:00:00 PM
Date Reported: 7/18/02
Date Received: 7/15/02
Sample ID: 1738-004 Texaco South Plant
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Refinery Gas Analysis, Extended					
Hydrogen	< 0.1	Mol %	UOP-539	7/17/02	TH
Oxygen	6.84	Mol %			
Nitrogen	71.80	Mol %			
Carbon Monoxide	< 0.01	Mol %			
Carbon Dioxide	8.72	Mol %			
Hydrogen Sulfide	< 0.01	Mol %			
Methane	7.60	Mol %			
Ethylene	< 0.01	Mol %			
Ethane	0.12	Mol %			
Propylene	< 0.01	Mol %			
Propane	0.04	Mol %			
Isobutane	0.06	Mol %			
Isobutylene	< 0.01	Mol %			
1-Butene	< 0.01	Mol %			
n-Butane	0.15	Mol %			
trans-2-Butene	< 0.01	Mol %			
cis-2-Butene	< 0.01	Mol %			
Isopentane	0.20	Mol %			
n-Pentane	0.34	Mol %			
Hexanes Plus	4.13	Mol %			
Total	100.00	Mol %			
Pressure Base	14.696	psia			
Molar Mass Ratio	1.09449				
Compressibility Factor	0.99822				
Gross Heating Value (Dry)	308.5	BTU/CF (Ideal)			
Gross Heating Value (Dry)	309.0	BTU/CF (Real)			

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CORE LABORATORIES

CHRISTY WESTELL
A4 SCIENTIFIC
1544 SAYDUST RD ST 505
THE WOODLANDS, TX 77380

Sample Number: 122995-001
Sample Date: 7/9/02 8:00:00 PM
Date Reported: 7/18/02
Date Received: 7/15/02
Sample ID: 1738-004 Texaco South Plant
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
Net Heating Value (Dry)	285.4	BTU/CF (Ideal)			
Net Heating Value (Dry)	285.9	BTU/CF (Real)			
Properties of Hexanes Plus					
--Average Molecular Weight	91.5	g/mol			
---Relative Density	0.7457	60/60			
---Gross Heating Value	4845.1	BTU/CF			
---Vapor Equivalent	25.78	cu. ft./gal			
Hexanes Plus		Mol %			
---Pentenes	< 0.001	Mol %			
---2,2-Dimethylbutane	0.008	Mol %			
---2-Methylpentane	0.289	Mol %			
---3-Methylpentane	0.313	Mol %			
---n-Hexane	0.495	Mol %			
---Hexenes	< 0.001	Mol %			
---Methylcyclopentane	0.345	Mol %			
---Benzene	0.586	Mol %			
---Cyclohexane	0.334	Mol %			
---2-Methylhexane	0.122	Mol %			
---3-Methylhexane	0.140	Mol %			
---Dimethylcyclopentanes	0.210	Mol %			
---n-Heptane	0.212	Mol %			
---Heptenes	< 0.001	Mol %			
---Methylcyclohexane	0.273	Mol %			
Trimethylcyclopentanes	0.072	Mol %			
---Toluene	0.313	Mol %			
---2-Methylheptane	0.047	Mol %			
---3-Methylheptane	0.010	Mol %			
---Dimethylcyclohexanes	0.072	Mol %			

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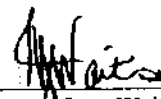
CHRISTY WESTELL
A4 SCIENTIFIC
1544 SAYDUST RD ST 505
THE WOODLANDS, TX 77380

Sample Number: 122995-001
Sample Date: 7/9/02 8:00:00 PM
Date Reported: 7/18/02
Date Received: 7/15/02
Sample ID: 1738-004 Texaco South Plant
Description:

Analytical Report

Test	Result	Units	Method	Date	Analyst
---n-Octane	0.060	Mol %			
---Ethylbenzene	0.039	Mol %			
---Xylenes	0.039	Mol %			
---C9 Naphthenes	0.064	Mol %			
---C9 Paraffins	0.035	Mol %			
---n-Nonane	0.024	Mol %			
---Decanes Plus	0.030	Mol %			

Approved By: _____


Jean Waits
Supervising Chemist

The analytical results, opinions or interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations expressed represent the best judgment of Core Laboratories. Core Laboratories, however, makes no warranty of representation, express or implied, of any type and expressly disclaims same as to the productivity, proper operation, or profitability of any oil, gas, coal, or other mineral property well or sand in connection with which such report is used or relied upon for any reason whatsoever. This report shall not be reproduced, in whole or in part, without the written approval of Core Laboratories.

SAMPLE LOG-IN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 1738 DATE/REC'D: 7-12-02 1600 TEMP & ID: ^{Ambient} 1) #
 CLIENT NAME: ALLIANCE 2) #
 PROJECT NAME: TEXACO SOUTH PLANT 3) #
 PROJECT NUMBER: 99142 4) #
 # AQUEOUS, # SOIL SAMPLES 5 Gas 5) #
 COURIER/AIRBILL # ALLIANCE 6) #

SAMPLE CONTAINER SEALS: present absent intact broken

COOLER CUSTODY SEALS: present absent intact broken NAME & DATE:

HOW MANY AND WHERE

Were samples screened for radioactivity?	YES	NO
Chain-of-custody present?	/	
Custody documents: Sealed in a plastic bag?	/	
Signed and dated by field personnel	/	
Filled out properly in indelible ink?	/	
Signed and dated by log-in personnel?	/	
Container Condition: Each containers sealed in a separate plastic bag?	/	
Labels complete (ID, date, time, signature, preservative, etc.)?	/	
Labels agree with chain-of-custody?	/	
Received without leakage or breakage? If no, list :	/	
Correct quantity indicated on chain-of-custody?	/	
Sample Integrity: Correct containers used for the test indicated? If no, list:	/	
Correct preservatives added to the samples? If no, list:	/	
Sufficient sample amount sent for the tests indicated? If no, list	/	
VOA vials filled completely? If no, list:	NA	
Aqueous volatiles samples preserved? If no, list:	NA	

Discrepancy Report:

Discrepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified?

By whom?

Date:

Client's comments:

Corrective actions carried out?

COMMENTS:

For those short holding time and fast turn-around parameters, has a Rush Notification sheet been issued to the lab?

LOG-IN BY: Carla Lin

DATE: 7-12-02

A4 Scientific, Inc.
 1544 Sawdust Road, Suite 505
 The Woodlands, TX 77380

The Oxy~Vac II MDPE Unit

A Mobile Dual Phase Vapor Extraction and Thermal Oxidizer system designed, assembled and operated by Alliance Maintenance and Services, Inc.



During an eight hour event the Oxy~Vac II is capable of processing 1000 pounds of gasoline through the oxidizer system. Should contaminant vapor levels drop below minimum system operating range, two propane tanks mounted to the trailer and truck provide continuous thermal oxidizer operation. The propane tanks have a total capacity of 180 gallons.

The Oxy~Vac II is equipped to run four pneumatic pumps and four or more drop tubes for product recovery or groundwater depression. The multi-pump system provides the capability to maximize PSH recovery while minimizing water recovery, and therefor reducing the cost for total fluid disposal cost.

The Oxy~Vac II Vacuum System



The Oxy~Vac II vacuum unit is set up with two separate dual phase blowers.

Each vacuum unit has a single cyclonic water-vapor separator.

The Quad-Vac unit is a modular dual phase vapor extraction (DPVE) unit. It has an optimum vacuum of 22.5 inches of mercury with airflow of 180 ACFM.

The Maxi-Vac unit achieves a vacuum of 29.5 inches of mercury with airflow of 205 ACFM.

*The Oxy~Vac II
Thermal Oxidizer*



Thermal Oxidizer/Enclosed Flare

1000 SCFM

3 Million BTU/hr

2.4 Million BTU/hr

5 Hp

80 Cubic feet

3.5 Cubic feet

1.0 Second

Velocity through 6" process inlet:

42.4 feet per second
stream

84.8 feet per second
stream

Unit design flow rate

Burners Maximum output

System design BTU

Combustion blower size

Combustion chamber volume

Stack flow area

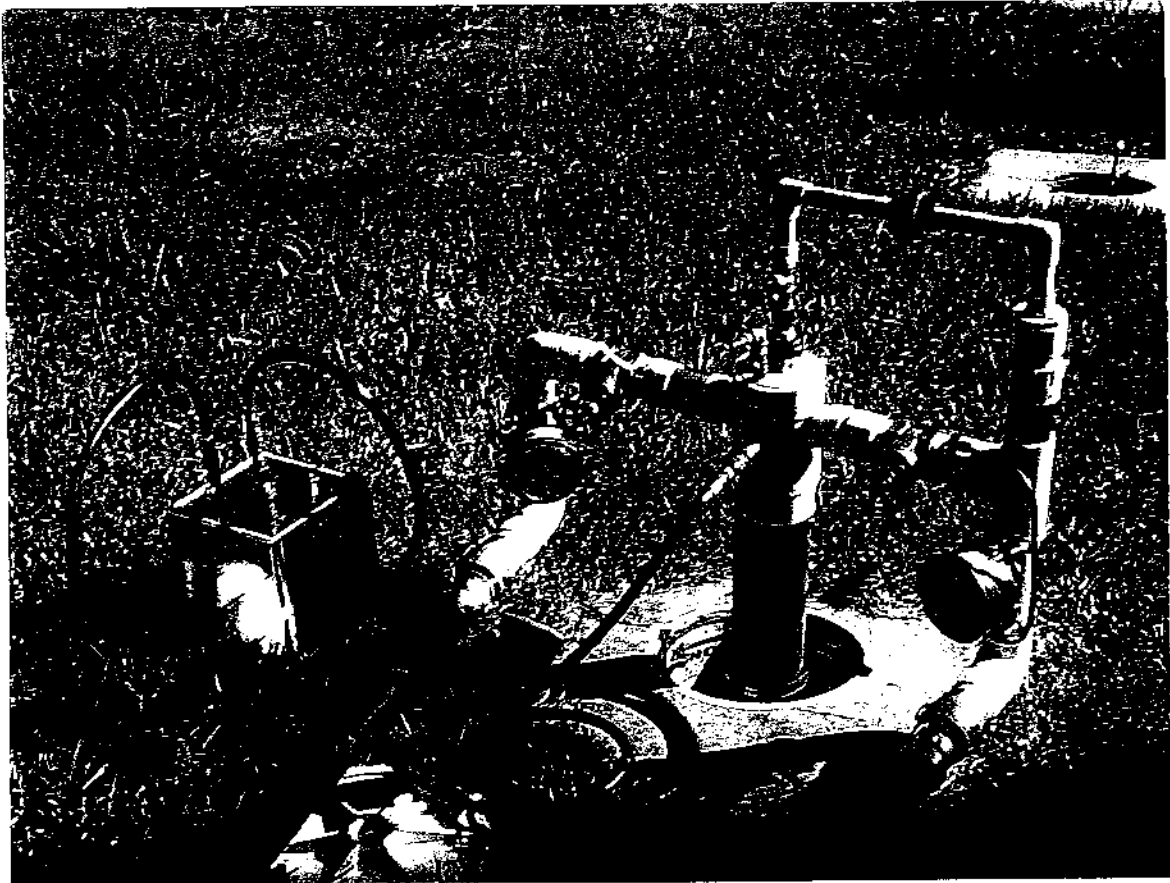
Retention Time @ 1000 SCFM

@500 SCFM from process

@1000 SCFM from process

Alliance Maintenance and Services, Inc.
3355 West 11th Street, Suite 100, Houston, Texas 77008

*The Oxy~Vac II
Accessory Equipment*



The well head adapters, developed and built by Alliance employees, are used for drop tubes. Gauges mounted on the adapters show system vacuum and well vacuum. Visi-tube is used to confirm water flow. Adapters have vapor sample ports and volume control mounted for easy access. Of the two hoses, one is used for vapor and the other for fluid recovery.

A Champion 5hp compressor with 100-Gallon tank is mounted on the trailer to supply air when needed.

Our support vehicle travels to each site with the **Oxy~Vac II** carrying sensitive meters and monitoring equipment. The support vehicle tows the tank trailer with a 935-gallon permanent mount poly tank and 425 gallon removable poly tank.

APPENDIX B

April & September Sample Analysis

April Sample Analysis

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: May 9, 2002

Order ID Number: A02042204

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195339	MW-8	Water	4/19/02	:	4/20/02
195340	MW-10	Water	4/19/02	11:10	4/20/02
195341	MW-24	Water	4/19/02	12:35	4/20/02
195342	TMW-1	Water	4/19/02	9:45	4/20/02
195343	TMW-3	Water	4/19/02	13:50	4/20/02
195344	TMW-6	Water	4/19/02	12:15	4/20/02

0 This report consists of a total of 3 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
195339 - MW-8	<0.005	<0.005	<0.005	<0.005	<0.005
195340 - MW-10	15.8	0.535	0.380	0.188	16.9
195341 - MW-24	32.4	2.08	0.422	0.656	35.6
195342 - TMW-1	0.0177	<0.001	<0.001	0.0025	0.0202
195343 - TMW-3	0.353	0.0153	0.833	<0.005	1.20
195344 - TMW-6	3.73	0.0356	0.726	0.217	4.71

Sample: 195339 - MW-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		949	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.103	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: May 9, 2002 Order Number: A02042204
 786 Texaco South Eunice Gas Plant

Page Number: 2 of 3
 Eunice Plant

Sample: 195340 - MW-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		357	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.70	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195341 - MW-24

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		92.7	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.42	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195342 - TMW-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		411	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.624	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195343 - TMW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		897	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		1.84	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Sample 195343 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195344 - TMW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		503	mg/L
Total Arsenic		0.123	mg/L
Total Barium		1.61	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

TRACE ANALYSIS, INC.

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155 McCutcheon, Suite H

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806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: May 9, 2002

Order ID Number: A02042204

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195339	MW-8	Water	4/19/02	:	4/20/02
195340	MW-10	Water	4/19/02	11:10	4/20/02
195341	MW-24	Water	4/19/02	12:35	4/20/02
195342	TMW-1	Water	4/19/02	9:45	4/20/02
195343	TMW-3	Water	4/19/02	13:50	4/20/02
195344	TMW-6	Water	4/19/02	12:15	4/20/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Report Date: May 9, 2002
786

Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 2 of 17
Eunice Plant

Analytical Report

Sample: 195339 - MW-8

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19785 Date Analyzed: 4/23/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19009 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.474	mg/L	5	0.10	95	70 - 130
4-BFB		0.372	mg/L	5	0.10	74	70 - 130

Sample: 195339 - MW-8

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195339 - MW-8

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		949	mg/L	100	0.50

Sample: 195339 - MW-8

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.103	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Report Date: May 9, 2002
786

Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 3 of 17
Eunice Plant

Sample: 195340 - MW-10

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19785 Date Analyzed: 4/23/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19009 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		15.8	mg/L	50	0.001
Toluene		0.535	mg/L	50	0.001
Ethylbenzene		0.380	mg/L	50	0.001
M,P,O-Xylene		0.188	mg/L	50	0.001
Total BTEX		16.9	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		5.07	mg/L	50	0.10	101	70 - 130
4-BFB		4.13	mg/L	50	0.10	83	70 - 130

Sample: 195340 - MW-10

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195340 - MW-10

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20093 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19252 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		357	mg/L	50	0.50

Sample: 195340 - MW-10

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		5.70	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195341 - MW-24

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Report Date: May 9, 2002
786

Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 4 of 17
Eunice Plant

Param	Flag	Result	Units	Dilution	RDL
Benzene		32.4	mg/L	200	0.001
Toluene		2.08	mg/L	200	0.001
Ethylbenzene		0.422	mg/L	200	0.001
M,P,O-Xylene		0.656	mg/L	200	0.001
Total BTEX		35.6	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0894	mg/L	200	0.10	89	70 - 130
4-BFB		0.0911	mg/L	200	0.10	91	70 - 130

Sample: 195341 - MW-24

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195341 - MW-24

Analysis: Ion Chromatography (IC) Analytical Method: F 300.0 QC Batch: QC20093 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19252 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		92.7	mg/L	10	0.50

Sample: 195341 - MW-24

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		5.42	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195342 - TMW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19769 Date Analyzed: 4/23/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19003 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0177	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001

Continued ...

Report Date: May 9, 2002
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Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 5 of 17
Eunice Plant

... Continued Sample: 195342 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O- Xylene		0.0025	mg/L	1	0.001
Total BTEX		0.0202	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0941	mg/L	1	0.10	94	70 - 130
4-BFB		0.094	mg/L	1	0.10	94	70 - 130

Sample: 195342 - TMW-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195342 - TMW-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20093 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19252 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		411	mg/L	50	0.50

Sample: 195342 - TMW-1

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.624	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195343 - TMW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19804 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19023 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.353	mg/L	5	0.001
Toluene		0.0153	mg/L	5	0.001
Ethylbenzene		0.833	mg/L	5	0.001

Continued ...

Report Date: May 9, 2002
786

Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 6 of 17
Eunice Plant

... Continued Sample: 195343 Analysis: BTEX					
Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		1.20	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0924	mg/L	5	0.10	92	70 - 130
4-BFB		0.103	mg/L	5	0.10	103	70 - 130

Sample: 195343 - TMW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195343 - TMW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20093 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19252 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		897	mg/L	100	0.50

Sample: 195343 - TMW-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		1.84	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195344 - TMW-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19769 Date Analyzed: 4/23/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19003 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		3.73	mg/L	10	0.001
Toluene		0.0356	mg/L	10	0.001
Ethylbenzene		0.726	mg/L	10	0.001
M,P,O-Xylene		0.217	mg/L	10	0.001

Continued ...

Report Date: May 9, 2002
786

Order Number: A02042204
Texaco South Eunice Gas Plant

Page Number: 7 of 17
Eunice Plant

... Continued Sample: 195344 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Total BTEX		4.71	mg/L	10	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0912	mg/L	10	0.10	91	70 - 130
4-BFB		0.0916	mg/L	10	0.10	91	70 - 130

Sample: 195344 - TMW-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19908 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195344 - TMW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20093 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19252 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		503	mg/L	50	0.50

Sample: 195344 - TMW-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19880 Date Analyzed: 4/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18991 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.123	mg/L	1	0.05
Total Barium		1.61	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Quality Control Report Method Blank

Method Blank QCBatch: QC19769

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0914	mg/L	1	0.10	91	70 - 130
4-BFB		0.0844	mg/L	1	0.10	84	70 - 130

Method Blank QCBatch: QC19785

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0992	mg/L	1	0.10	99	70 - 130
4-BFB		0.0803	mg/L	1	0.10	80	70 - 130

Method Blank QCBatch: QC19804

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0946	mg/L	1	0.10	95	70 - 130

Continued ...

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		0.0974	mg/L	1	0.10	97	70 - 130

Method Blank QCBatch: QC19870

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	1	0	mg/L	1	0.10	0	70 - 130
4-BFB	2	0	mg/L	1	0.10	0	70 - 130

Method Blank QCBatch: QC19880

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC19908

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC20092

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	0.50

¹No surrogate added to method blank. ICV, CCV, CCV shows the method to be in control.

²No surrogate added to method blank. ICV, CCV, CCV shows the method to be in control.

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Method Blank QCBatch: QC20093

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	0.50

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC19769

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0952	0.0933	mg/L	1	0.10	<0.001	95	2	70 - 130	20
Benzene	0.100	0.0981	mg/L	1	0.10	<0.001	100	2	70 - 130	20
Toluene	0.100	0.0986	mg/L	1	0.10	<0.001	100	1	70 - 130	20
Ethylbenzene	0.101	0.0992	mg/L	1	0.10	<0.001	101	2	70 - 130	20
M,P,O-Xylene	0.301	0.295	mg/L	1	0.30	<0.001	100	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0893	0.0878	mg/L	1	0.10	89	88	70 - 130
4-BFB	0.0889	0.0896	mg/L	1	0.10	89	90	70 - 130

Laboratory Control Spikes QCBatch: QC19785

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.112	0.113	mg/L	1	0.10	<0.001	112	0	70 - 130	20
Benzene	0.104	0.104	mg/L	1	0.10	<0.001	104	0	70 - 130	20
Toluene	0.102	0.104	mg/L	1	0.10	<0.001	102	1	70 - 130	20
Ethylbenzene	0.103	0.105	mg/L	1	0.10	<0.001	103	1	70 - 130	20
M,P,O-Xylene	0.326	0.327	mg/L	1	0.30	<0.001	108	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.104	0.104	mg/L	1	0.10	104	104	70 - 130
4-BFB	0.109	0.108	mg/L	1	0.10	109	108	70 - 130

Laboratory Control Spikes QCBatch: QC19804

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.113	0.104	mg/L	1	0.10	<0.001	113	8	70 - 130	20

Continued ...

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Benzene	0.100	0.102	mg/L	1	0.10	<0.001	100	2	70 - 130	20
Toluene	0.101	0.104	mg/L	1	0.10	<0.001	101	3	70 - 130	20
Ethylbenzene	0.106	0.109	mg/L	1	0.10	<0.001	106	3	70 - 130	20
M,P,O-Xylene	0.315	0.322	mg/L	1	0.30	<0.001	105	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0906	0.0927	mg/L	1	0.10	91	93	70 - 130
4-BFB	0.099	0.0987	mg/L	1	0.10	99	99	70 - 130

Laboratory Control Spikes

QCBatch: QC19870

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.104	0.107	mg/L	1	0.10	<0.001	104	3	70 - 130	20
Benzene	0.105	0.102	mg/L	1	0.10	<0.001	105	3	70 - 130	20
luene	0.103	0.1	mg/L	1	0.10	<0.001	103	2	70 - 130	20
Ethylbenzene	0.106	0.104	mg/L	1	0.10	<0.001	106	2	70 - 130	20
M,P,O-Xylene	0.312	0.310	mg/L	1	0.30	<0.001	104	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0946	0.0921	mg/L	1	0.10	95	92	70 - 130
4-BFB	0.0949	0.0958	mg/L	1	0.10	95	96	70 - 130

Laboratory Control Spikes

QCBatch: QC19880

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.490	0.473	mg/L	1	0.50	<0.050	98	3	75 - 125	20
Total Barium	1.02	1.02	mg/L	1	1	<0.100	102	0	75 - 125	20
Total Cadmium	0.247	0.245	mg/L	1	0.25	<0.005	98	0	75 - 125	20
Total Chromium	0.103	0.100	mg/L	1	0.10	<0.010	103	2	75 - 125	20
Total Lead	0.504	0.492	mg/L	1	0.50	<0.010	100	2	75 - 125	20
Total Selenium	0.429	0.424	mg/L	1	0.50	<0.050	85	1	75 - 125	20
Total Silver	0.127	0.122	mg/L	1	0.12	<0.0125	101	4	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC19908

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00099	0.00101	mg/L	1	0.001	<0.0002	99	2	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC20092

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.31	12.35	mg/L	1	12.50	<2.0	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC20093

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.34	12.27	mg/L	1	12.50	<2.0	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC19880

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.482	0.479	mg/L	1	0.50	<0.050	96	0	75 - 125	20
Total Barium	1.00	1.02	mg/L	1	1	0.103	89	2	75 - 125	20
Total Cadmium	0.213	0.214	mg/L	1	0.25	<0.005	85	0	75 - 125	20
Total Chromium	0.0898	0.0896	mg/L	1	0.10	<0.010	89	0	75 - 125	20
Total Lead	0.430	0.436	mg/L	1	0.50	<0.010	86	1	75 - 125	20
Total Selenium	0.420	0.415	mg/L	1	0.50	<0.050	84	1	75 - 125	20
Total Silver	0.124	0.122	mg/L	1	0.12	<0.0125	99	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

QCBatch: QC19908

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00118	0.00113	mg/L	1	0.001	<0.0002	118	4	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20092

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	2165	2167	mg/L	1	1250	949	97	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20093

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	186.05	187.89	mg/L	1	125	67.22	95	1	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC19769

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0981	98	85 - 115	4/23/02
Benzene		mg/L	0.10	0.101	101	85 - 115	4/23/02
Toluene		mg/L	0.10	0.102	102	85 - 115	4/23/02
Ethylbenzene		mg/L	0.10	0.103	103	85 - 115	4/23/02
M,P,O-Xylene		mg/L	0.30	0.308	103	85 - 115	4/23/02

CCV (2) QCBatch: QC19769

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0924	92	85 - 115	4/23/02
Benzene		mg/L	0.10	0.097	97	85 - 115	4/23/02
Toluene		mg/L	0.10	0.097	97	85 - 115	4/23/02
Ethylbenzene		mg/L	0.10	0.0995	99	85 - 115	4/23/02
M,P,O-Xylene		mg/L	0.30	0.292	97	85 - 115	4/23/02

ICV (1) QCBatch: QC19769

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.094	94	85 - 115	4/23/02
Benzene		mg/L	0.10	0.096	96	85 - 115	4/23/02
Toluene		mg/L	0.10	0.0973	97	85 - 115	4/23/02
Ethylbenzene		mg/L	0.10	0.100	100	85 - 115	4/23/02
M,P,O-Xylene		mg/L	0.30	0.300	100	85 - 115	4/23/02

CCV (1) QCBatch: QC19785

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.107	107	85 - 115	4/23/02
Benzene		mg/L	0.10	0.1	100	85 - 115	4/23/02
Toluene		mg/L	0.10	0.0988	98	85 - 115	4/23/02
Ethylbenzene		mg/L	0.10	0.101	101	85 - 115	4/23/02
M,P,O-Xylene		mg/L	0.30	0.314	104	85 - 115	4/23/02

ICV (1) QCBatch: QC19785

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE	3	mg/L	0.10	0.116	116	85 - 115	4/23/02
Benzene		mg/L	0.10	0.104	104	85 - 115	4/23/02
Toluene		mg/L	0.10	0.105	105	85 - 115	4/23/02
Ethylbenzene		mg/L	0.10	0.105	105	85 - 115	4/23/02
M,P,O-Xylene		mg/L	0.30	0.327	109	85 - 115	4/23/02

CCV (1) QCBatch: QC19804

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.097	97	85 - 115	4/24/02
Benzene		mg/L	0.10	0.0966	97	85 - 115	4/24/02
Toluene		mg/L	0.10	0.0976	98	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.101	101	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.302	101	85 - 115	4/24/02

CCV (2) QCBatch: QC19804

³MTBE outside normal limits. Average (108) of ICV components within acceptable range.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0985	98	85 - 115	4/24/02
Benzene		mg/L	0.10	0.0981	98	85 - 115	4/24/02
Toluene		mg/L	0.10	0.0958	95	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.101	101	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.301	100	85 - 115	4/24/02

ICV (1) QCBatch: QC19804

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.106	106	85 - 115	4/24/02
Benzene		mg/L	0.10	0.101	101	85 - 115	4/24/02
Toluene		mg/L	0.10	0.102	102	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.108	108	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.320	107	85 - 115	4/24/02

CCV (1) QCBatch: QC19870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0928	93	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0983	98	85 - 115	4/25/02
Toluene		mg/L	0.10	0.0992	99	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.104	104	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.304	101	85 - 115	4/25/02

CCV (2) QCBatch: QC19870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0931	93	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0958	95	85 - 115	4/25/02
Toluene		mg/L	0.10	0.1	100	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.1	100	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.3	100	85 - 115	4/25/02

ICV (1) QCBatch: QC19870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE	4	mg/L	0.10	0.0819	82	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0889	89	85 - 115	4/25/02
Toluene		mg/L	0.10	0.0908	91	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.0958	96	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.289	96	85 - 115	4/25/02

CCV (1) QCBatch: QC19880

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.01	101	90 - 110	4/25/02
Total Barium		mg/L	2	2.06	103	90 - 110	4/25/02
Total Cadmium		mg/L	0.50	0.508	101	90 - 110	4/25/02
Total Chromium		mg/L	0.20	0.203	101	90 - 110	4/25/02
Total Lead		mg/L	1	1.01	101	90 - 110	4/25/02
Total Selenium		mg/L	1	1.02	102	90 - 110	4/25/02
Total Silver		mg/L	0.25	0.257	102	90 - 110	4/25/02

ICV (1) QCBatch: QC19880

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.982	98	95 - 105	4/25/02
Total Barium		mg/L	2	2.00	100	95 - 105	4/25/02
Total Cadmium		mg/L	0.50	0.500	100	95 - 105	4/25/02
Total Chromium		mg/L	0.20	0.197	98	95 - 105	4/25/02
Total Lead		mg/L	1	0.988	98	95 - 105	4/25/02
Total Selenium		mg/L	1	0.984	98	95 - 105	4/25/02
Total Silver		mg/L	0.25	0.252	100	95 - 105	4/25/02

CCV (1) QCBatch: QC19908

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00099	99	80 - 120	4/26/02

ICV (1) QCBatch: QC19908

⁴MTBE outside normal limits. Average(90.7) of ICV components within acceptable range.

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00107	107	80 - 120	4/26/02

CCV (1) QCBatch: QC20092

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.32	98	90 - 110	4/29/02

ICV (1) QCBatch: QC20092

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.16	97	90 - 110	4/29/02

CCV (1) QCBatch: QC20093

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.23	97	90 - 110	4/29/02

ICV (1) QCBatch: QC20093

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.32	98	90 - 110	4/29/02

195339-44

A02042201

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

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Midland, Texas 79705

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PAGE: /

OF: /

ANALYSIS REQUEST

(Circle or Specify Method No.)

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX
COMP.
GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

PRESERVATIVE
METHOD

HCL

HNO3

ICE

NONE

ETEX 8020/802

MYRE 8020/802

TPH 418.1 8015 MOD. TX1005

PAH 8270

PCRA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RC1

CC.MS Vol. 8240/8280/824

CC.MS Sampl. Vol. 8270/825

PCB's 8080/808

Post. 808/808

BOD, TSS, pH, TDS, Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Chloride

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Sign)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

HAND DELIVERED

BUS

UPS

AIRBILL

OTHER:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

HIGHLANDER CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

TRACE

RECEIVED BY: (Signature)

Patel T.H.

IKE TAVAREZ

RUSH Charges

Authorized:

Yes No

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

DATE:

04.20.02

TIME: 10:20 AM

REMARKS:

SAMPLE CONDITION WHEN RECEIVED:

Intack (Fe. 4 c)

MATRIX:

W-Water

A-Air

SD-Solid

S-Soil

SL-Sludge

O-Other

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

110 24 samples - HS

P/F 5/9/02

Report Date: June 4, 2002 Order Number: A02041921
 786 Texaco South Eunice Gas Plant

Page Number: 1 of 9
 Eunice Plant

Summary Report

Ike Tavarez
 Highlander Environmental Services
 1910 N. Big Spring St.
 Midland, TX 79705

Report Date: June 4, 2002

Order ID Number: A02041921

Project Number: 786
 Project Name: Texaco South Eunice Gas Plant
 Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195241	MW-6	Water	4/15/02	11:45	4/19/02
195242	MW-7	Water	4/15/02	12:25	4/19/02
195243	MWD-4	Water	4/15/02	13:30	4/19/02
195244	MWD-5	Water	4/15/02	15:45	4/19/02
195245	MWD-12	Water	4/15/02	14:35	4/19/02
195246	MWD-13	Water	4/15/02	10:55	4/19/02
195247	MW-22	Water	4/16/02	12:50	4/19/02
195248	MW-23	Water	4/16/02	14:40	4/19/02
195249	MWD-1	Water	4/16/02	15:40	4/19/02
195250	MWD-3	Water	4/16/02	11:40	4/19/02
195251	MWD-6	Water	4/16/02	10:30	4/19/02
195252	MW-9 (MW-9)	Water	4/16/02	13:55	4/19/02
195253	MWD-2	Water	4/17/02	12:45	4/19/02
195254	MWD-7	Water	4/17/02	11:15	4/19/02
195255	MWD-10	Water	4/17/02	15:10	4/19/02
195256	MWD-11	Water	4/17/02	10:05	4/19/02
195257	MWD-14	Water	4/17/02	13:55	4/19/02
195258	MWD-8	Water	4/18/02	9:35	4/19/02
195259	MW-18	Water	4/18/02	10:15	4/19/02
195260	MW-4	Water	4/18/02	11:10	4/19/02
195261	MW-11 (MW-11)	Water	4/18/02	11:45	4/19/02
195262	MW-19	Water	4/18/02	12:20	4/19/02
195263	RW-1	Water	4/18/02	14:20	4/19/02
195264	MW-9	Water	4/18/02	13:35	4/19/02

0 This report consists of a total of 9 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEx				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEx (ppm)
195241 - MW-6	<0.005	<0.005	<0.005	<0.005	<0.005
195242 - MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
195243 - MWD-4	<0.001	<0.001	<0.001	<0.001	<0.001
195244 - MWD-5	8.83	3.64	0.451	0.542	13.5
195245 - MWD-12	0.507	<0.050	<0.050	<0.050	0.507
195246 - MWD-13	0.0024	<0.001	<0.001	<0.001	0.0024

Continued ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
786 Texaco South Eunice Gas Plant

Page Number: 2 of 9
Eunice Plant

Continued ...

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
195247 - MW-22	0.971	0.0452	0.0503	0.0272	1.09
195248 - MW-23	0.0098	<0.001	0.0023	<0.001	0.0121
195249 - MWD-1	0.0025	<0.001	<0.001	<0.001	0.0025
195250 - MWD-3	0.785	0.0108	0.0186	0.0238	0.838
195251 - MWD-6	0.143	<0.005	0.0077	<0.005	0.151
195252 - MW-9 (MWD-9)	0.0131	0.001	<0.001	<0.001	0.0141
195253 - MWD-2	0.0012	<0.001	<0.001	<0.001	0.0012
195254 - MWD-7	<0.001	<0.001	<0.001	<0.001	<0.001
195255 - MWD-10	0.369	<0.005	0.209	0.0506	0.629
195256 - MWD-11	<0.001	<0.001	<0.001	<0.001	<0.001
195257 - MWD-14	1.77	0.234	0.0662	0.0316	2.10
195258 - MWD-8	<0.001	<0.001	<0.001	<0.001	<0.001
195259 - MW-18	<0.001	<0.001	<0.001	<0.001	<0.001
195260 - MW-4	0.0344	<0.001	<0.001	<0.001	0.0344
195261 - MW-11 (mw-11)	<0.001	<0.001	<0.001	<0.001	<0.001
195262 - MW-19	0.710	<0.005	0.075	0.0725	0.858
195264 - MW-9	7.59	0.531	0.486	0.377	8.98

Sample: 195241 - MW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		22700	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195242 - MW-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7880	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
 786 Texaco South Eunice Gas Plant

Page Number: 3 of 9
 Eunice Plant

Sample: 195243 - MWD-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		688	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.430	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195244 - MWD-5

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1140	mg/L
Total Arsenic		0.104	mg/L
Total Barium		4.805	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195245 - MWD-12

Param	Flag	Result	Units
Total Mercury		0.00029	mg/L
Chloride		5130	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.478	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195246 - MWD-13

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		27900	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
786 Texaco South Eunice Gas Plant

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Eunice Plant

Sample 195246 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195247 - MW-22

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		48800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195248 - MW-23

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		20300	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195249 - MWD-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		16100	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
 786 Texaco South Eunice Gas Plant

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 Eunice Plant

Sample: 195250 - MWD-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		47600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195251 - MWD-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		758	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		2.19	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

(MWD-9)

Sample: 195252 - MW-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		23400	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195253 - MWD-2

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		22300	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
 786 Texaco South Eunice Gas Plant

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 Eunice Plant

Sample 195253 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195254 - MWD-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		936	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.608	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195255 - MWD-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7210	mg/L
Total Arsenic		0.0558	mg/L
Total Barium		0.436	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195256 - MWD-11

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2580	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
786 Texaco South Eunice Gas Plant

Page Number: 7 of 9
Eunice Plant

Sample: 195257 - MWD-14

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		20600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.163	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195258 - MWD-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		12800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.117	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.0114	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195259 - MW-18

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		3280	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195260 - MW-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		8830	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: June 4, 2002 Order Number: A02041921
786 Texaco South Eunice Gas Plant

Page Number: 8 of 9
Eunice Plant

Sample 195260 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195261 - MW-11 (mw-17)

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		5050	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195262 - MW-19

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2690	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.737	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195263 - RW-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		675	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		2.66	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Report Date: June 4, 2002 Order Number: A02041921
786 Texaco South Eunice Gas Plant

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Eunice Plant

Sample: 195264 - MW-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		384	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		13.7	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L



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El Paso, Texas 79932

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: June 4, 2002

Order ID Number: A02041921

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95241	MW-6	Water	4/15/02	11:45	4/19/02
95242	MW-7	Water	4/15/02	12:25	4/19/02
95243	MWD-4	Water	4/15/02	13:30	4/19/02
95244	MWD-5	Water	4/15/02	15:45	4/19/02
95245	MWD-12	Water	4/15/02	14:35	4/19/02
95246	MWD-13	Water	4/15/02	10:55	4/19/02
95247	MW-22	Water	4/16/02	12:50	4/19/02
95248	MW-23	Water	4/16/02	14:40	4/19/02
95249	MWD-1	Water	4/16/02	15:40	4/19/02
95250	MWD-3	Water	4/16/02	11:40	4/19/02
95251	MWD-6	Water	4/16/02	10:30	4/19/02
95252	MW-9	Water	4/16/02	13:55	4/19/02
95253	MWD-2	Water	4/17/02	12:45	4/19/02
95254	MWD-7	Water	4/17/02	11:15	4/19/02
95255	MWD-10	Water	4/17/02	15:10	4/19/02
95256	MWD-11	Water	4/17/02	10:05	4/19/02
95257	MWD-14	Water	4/17/02	13:55	4/19/02
95258	MWD-8	Water	4/18/02	9:35	4/19/02
95259	MW-18	Water	4/18/02	10:15	4/19/02
95260	MW-4	Water	4/18/02	11:10	4/19/02
95261	MW-11	Water	4/18/02	11:45	4/19/02
95262	MW-19	Water	4/18/02	12:20	4/19/02
95263	RW-1	Water	4/18/02	14:20	4/19/02
95264	MW-9	Water	4/18/02	13:35	4/19/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 41 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 195241 - MW-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0837	mg/L	5	0.10	83	70 - 130
4-BFB		0.0814	mg/L	5	0.10	81	70 - 130

Sample: 195241 - MW-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195241 - MW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		22700	mg/L	50	1

Sample: 195241 - MW-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

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Sample: 195242 - MW-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.089	mg/L	1	0.10	89	70 - 130
4-BFB		0.0848	mg/L	1	0.10	85	70 - 130

Sample: 195242 - MW-7

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195242 - MW-7

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19975 Date Analyzed: 4/25/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19153 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		7880	mg/L	200	1

Sample: 195242 - MW-7

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195243 - MWD-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0893	mg/L	1	0.10	89	70 - 130
4-BFB		0.0849	mg/L	1	0.10	85	70 - 130

Sample: 195243 - MWD-4

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195243 - MWD-4

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		688	mg/L	50	1

Sample: 195243 - MWD-4

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.430	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195244 - MWD-5

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		8.83	mg/L	100	0.001
Toluene		3.64	mg/L	100	0.001

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... Continued Sample: 195244 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		0.451	mg/L	100	0.001
M,P,O-Xylene		0.542	mg/L	100	0.001
Total BTEX		13.5	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0908	mg/L	100	0.10	90	70 - 130
4-BFB		0.0856	mg/L	100	0.10	85	70 - 130

Sample: 195244 - MWD-5

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195244 - MWD-5

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1140	mg/L	100	1

Sample: 195244 - MWD-5

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.104	mg/L	1	0.05
Total Barium		4.805	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195245 - MWD-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.507	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		<0.050	mg/L	50	0.001

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... Continued Sample: 195245 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		0.507	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0846	mg/L	50	0.10	84	70 - 130
4-BFB		0.08	mg/L	50	0.10	80	70 - 130

Sample: 195245 - MWD-12

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00029	mg/L	1	0.0002

Sample: 195245 - MWD-12

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20001 Date Analyzed: 4/25/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19172 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		5130	mg/L	200	1

Sample: 195245 - MWD-12

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.478	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195246 - MWD-13

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0024	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001

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... Continued Sample: 195246 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Total BTEX		0.0024	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0906	mg/L	1	0.10	91	70 - 130
4-BFB		0.0839	mg/L	1	0.10	84	70 - 130

Sample: 195246 - MWD-13

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19905 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195246 - MWD-13

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20001 Date Analyzed: 4/25/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19172 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		27900	mg/L	1000	1

Sample: 195246 - MWD-13

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195247 - MW-22

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19733 Date Analyzed: 4/22/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18975 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.971	mg/L	5	0.001
Toluene		0.0452	mg/L	5	0.001
Ethylbenzene		0.0503	mg/L	5	0.001
M,P,O-Xylene		0.0272	mg/L	5	0.001
Total BTEX		1.09	mg/L	5	0.001

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.104	mg/L	5	0.10	104	70 - 130
4-BFB		0.0994	mg/L	5	0.10	99	70 - 130

Sample: 195247 - MW-22

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195247 - MW-22

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20001 Date Analyzed: 4/25/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19172 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		48800	mg/L	2000	1

Sample: 195247 - MW-22

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195248 - MW-23

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0098	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		0.0023	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0121	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.092	mg/L	1	0.10	92	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		0.0863	mg/L	1	0.10	86	70 - 130

Sample: 195248 - MW-23

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195248 - MW-23

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		20300	mg/L	500	1

Sample: 195248 - MW-23

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195249 - MWD-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19698 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18949 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0025	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0025	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0901	mg/L	1	0.10	90	70 - 130
4-BFB		0.0862	mg/L	1	0.10	86	70 - 130

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Sample: 195249 - MWD-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195249 - MWD-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		16100	mg/L	500	1

Sample: 195249 - MWD-1

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195250 - MWD-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19733 Date Analyzed: 4/22/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18975 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.785	mg/L	5	0.001
Toluene		0.0108	mg/L	5	0.001
Ethylbenzene		0.0186	mg/L	5	0.001
M,P,O-Xylene		0.0238	mg/L	5	0.001
Total BTEX		0.838	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.102	mg/L	5	0.10	102	70 - 130
4-BFB		0.098	mg/L	5	0.10	98	70 - 130

Sample: 195250 - MWD-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

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Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195250 - MWD-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC19892 Date Analyzed: 4/23/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19090 Date Prepared: 4/23/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		47600	mg/L	1000	1

Sample: 195250 - MWD-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19808 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195251 - MWD-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19733 Date Analyzed: 4/22/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18975 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.143	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.0077	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		0.151	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0996	mg/L	5	0.10	99	70 - 130
4-BFB		0.0944	mg/L	5	0.10	94	70 - 130

Sample: 195251 - MWD-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

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Sample: 195251 - MWD-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20001 Date Analyzed: 4/25/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19172 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		758	mg/L	500	1

Sample: 195251 - MWD-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		2.19	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195252 - MW-9

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0131	mg/L	1	0.001
Toluene		0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0141	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0925	mg/L	1	0.10	92	70 - 130
4-BFB		0.0864	mg/L	1	0.10	86	70 - 130

Sample: 195252 - MW-9

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195252 - MW-9

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20091 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19250 Date Prepared: 4/29/02

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Param	Flag	Result	Units	Dilution	RDL
Chloride		23400	mg/L	500	1

Sample: 195252 - MW-9

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195253 - MWD-2

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0012	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0012	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0841	mg/L	1	0.10	84	70 - 130
4-BFB		0.0769	mg/L	1	0.10	77	70 - 130

Sample: 195253 - MWD-2

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195253 - MWD-2

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20091 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19250 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		22300	mg/L	500	1

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Sample: 195253 - MWD-2

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195254 - MWD-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0914	mg/L	1	0.10	91	70 - 130
4-BFB		0.0832	mg/L	1	0.10	83	70 - 130

Sample: 195254 - MWD-7

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195254 - MWD-7

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20091 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19250 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		936	mg/L	100	1

Sample: 195254 - MWD-7

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

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Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.608	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195255 - MWD-10

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.369	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.209	mg/L	5	0.001
M,P,O-Xylene		0.0506	mg/L	5	0.001
Total BTEX		0.629	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
FT		0.087	mg/L	5	0.10	87	70 - 130
4-BFB		0.0845	mg/L	5	0.10	84	70 - 130

Sample: 195255 - MWD-10

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195255 - MWD-10

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20091 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19250 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		7210	mg/L	200	1

Sample: 195255 - MWD-10

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0558	mg/L	1	0.05
Total Barium		0.436	mg/L	1	0.10

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... Continued Sample: 195255 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195256 - MWD-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0851	mg/L	1	0.10	85	70 - 130
BFB		0.0785	mg/L	1	0.10	78	70 - 130

Sample: 195256 - MWD-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19906 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19102 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195256 - MWD-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2580	mg/L	200	1

Sample: 195256 - MWD-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005

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... Continued Sample: 195256 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195257 - MWD-14

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		1.77	mg/L	10	0.001
Toluene		0.234	mg/L	10	0.001
Ethylbenzene		0.0662	mg/L	10	0.001
M,P,O-Xylene		0.0316	mg/L	10	0.001
Total BTEX		2.10	mg/L	10	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0849	mg/L	10	0.10	84	70 - 130
-BFB		0.0808	mg/L	10	0.10	80	70 - 130

Sample: 195257 - MWD-14

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195257 - MWD-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		20600	mg/L	500	1

Sample: 195257 - MWD-14

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.163	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01

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... Continued Sample: 195257 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195258 - MWD-8

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0907	mg/L	1	0.10	91	70 - 130
4-BFB		0.0876	mg/L	1	0.10	88	70 - 130

Sample: 195258 - MWD-8

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195258 - MWD-8

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		12800	mg/L	500	1

Sample: 195258 - MWD-8

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.117	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		0.0114	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01

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... Continued Sample: 195258 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195259 - MW-18

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.105	mg/L	1	0.10	105	70 - 130
4-BFB		0.098	mg/L	1	0.10	98	70 - 130

Sample: 195259 - MW-18

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195259 - MW-18

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		3280	mg/L	100	1

Sample: 195259 - MW-18

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05

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... Continued Sample: 195259 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195260 - MW-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0344	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0344	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0835	mg/L	1	0.10	84	70 - 130
4-BFB		0.0778	mg/L	1	0.10	78	70 - 130

Sample: 195260 - MW-4

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195260 - MW-4

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		8830	mg/L	200	1

Sample: 195260 - MW-4

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19809 Date Analyzed: 4/24/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18959 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

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Sample: 195261 - MW-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0917	mg/L	1	0.10	92	70 - 130
4-BFB		0.0894	mg/L	1	0.10	89	70 - 130

Sample: 195261 - MW-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195261 - MW-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		5050	mg/L	200	1

Sample: 195261 - MW-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19770 Date Analyzed: 4/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18958 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195262 - MW-19

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19699 Date Analyzed: 4/19/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18950 Date Prepared: 4/19/02

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Param	Flag	Result	Units	Dilution	RDL
Benzene		0.710	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.075	mg/L	5	0.001
M,P,O-Xylene		0.0725	mg/L	5	0.001
Total BTEX		0.858	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0911	mg/L	5	0.10	91	70 - 130
4-BFB		0.0883	mg/L	5	0.10	88	70 - 130

Sample: 195262 - MW-19

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195262 - MW-19

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2690	mg/L	100	1

Sample: 195262 - MW-19

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19770 Date Analyzed: 4/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18958 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.737	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195263 - RW-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

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Sample: 195263 - RW-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		675	mg/L	50	1

Sample: 195263 - RW-1

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19770 Date Analyzed: 4/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18958 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		2.66	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195264 - MW-9

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19733 Date Analyzed: 4/22/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB18975 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		7.59	mg/L	20	0.001
Toluene		0.531	mg/L	20	0.001
Ethylbenzene		0.486	mg/L	20	0.001
M,P,O-Xylene		0.377	mg/L	20	0.001
Total BTEX		8.98	mg/L	20	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0944	mg/L	20	0.10	94	70 - 130
4-BFB		0.0941	mg/L	20	0.10	94	70 - 130

Sample: 195264 - MW-9

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC19907 Date Analyzed: 4/26/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19103 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195264 - MW-9

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20092 Date Analyzed: 4/29/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19251 Date Prepared: 4/29/02

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Param	Flag	Result	Units	Dilution	RDL
Chloride		384	mg/L	50	1

Sample: 195264 - MW-9

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19770 Date Analyzed: 4/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB18958 Date Prepared: 4/22/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		13.7	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Quality Control Report Method Blank

Method Blank QCBatch: QC19698

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0919	mg/L	1	0.10	92	70 - 130
4-BFB		0.0861	mg/L	1	0.10	86	70 - 130

Method Blank QCBatch: QC19699

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0857	mg/L	1	0.10	86	70 - 130
4-BFB		0.0797	mg/L	1	0.10	80	70 - 130

Method Blank QCBatch: QC19733

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0998	mg/L	1	0.10	100	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		0.096	mg/L	1	0.10	96	70 - 130

Method Blank QCBatch: QC19770

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC19808

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC19809

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC19892

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

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Method Blank QCBatch: QC19905

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC19906

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC19907

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC19975

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

Method Blank QCBatch: QC20001

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

Method Blank QCBatch: QC20091

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

Method Blank QCBatch: QC20092

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC19698

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0907	0.0892	mg/L	1	0.10	<0.001	91	2	70 - 130	20
Benzene	0.097	0.096	mg/L	1	0.10	<0.001	97	1	70 - 130	20
Toluene	0.0961	0.0954	mg/L	1	0.10	<0.001	96	1	70 - 130	20
Ethylbenzene	0.0953	0.0946	mg/L	1	0.10	<0.001	95	1	70 - 130	20
M,P,O-Xylene	0.283	0.283	mg/L	1	0.30	<0.001	94	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0956	0.091	mg/L	1	0.10	96	91	70 - 130
4-BFB	0.0894	0.0869	mg/L	1	0.10	89	87	70 - 130

Laboratory Control Spikes

QCBatch: QC19699

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0864	0.0869	mg/L	1	0.10	<0.001	86	0	70 - 130	20
Benzene	0.0934	0.0907	mg/L	1	0.10	<0.001	93	3	70 - 130	20
Toluene	0.0915	0.0891	mg/L	1	0.10	<0.001	92	3	70 - 130	20
Ethylbenzene	0.0908	0.0896	mg/L	1	0.10	<0.001	91	1	70 - 130	20
M,P,O-Xylene	0.269	0.265	mg/L	1	0.30	<0.001	90	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0876	0.0858	mg/L	1	0.10	88	86	70 - 130
4-BFB	0.0828	0.0818	mg/L	1	0.10	83	82	70 - 130

Laboratory Control Spikes

QCBatch: QC19733

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.107	0.109	mg/L	1	0.10	<0.001	107	2	70 - 130	20
Benzene	0.109	0.109	mg/L	1	0.10	<0.001	109	0	70 - 130	20
Toluene	0.106	0.106	mg/L	1	0.10	<0.001	106	0	70 - 130	20
Ethylbenzene	0.107	0.107	mg/L	1	0.10	<0.001	107	0	70 - 130	20
M,P,O-Xylene	0.318	0.318	mg/L	1	0.30	<0.001	106	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.102	0.102	mg/L	1	0.10	102	102	70 - 130
4-BFB	0.098	0.0973	mg/L	1	0.10	98	97	70 - 130

Laboratory Control Spikes

QCBatch: QC19770

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.528	0.511	mg/L	1	0.50	<0.050	105	3	75 - 125	20
Total Barium	1.00	0.954	mg/L	1	1	<0.100	100	4	75 - 125	20
Total Cadmium	0.240	0.228	mg/L	1	0.25	<0.005	96	5	75 - 125	20
Total Chromium	0.104	0.102	mg/L	1	0.10	<0.010	104	1	75 - 125	20
Total Lead	0.499	0.490	mg/L	1	0.50	<0.010	99	1	75 - 125	20
Total Selenium	0.425	0.422	mg/L	1	0.50	<0.050	85	0	75 - 125	20
Total Silver	0.120	0.114	mg/L	1	0.12	<0.0125	96	5	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC19808

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.518	0.507	mg/L	1	0.50	<0.050	104	2	75 - 125	20
Total Barium	1.02	1.02	mg/L	1	1	<0.100	102	0	75 - 125	20
Total Cadmium	0.241	0.232	mg/L	1	0.25	<0.005	96	4	75 - 125	20
Total Chromium	0.102	0.102	mg/L	1	0.10	<0.010	102	0	75 - 125	20
Total Lead	0.492	0.488	mg/L	1	0.50	<0.010	98	1	75 - 125	20
Total Selenium	0.434	0.432	mg/L	1	0.50	<0.050	87	0	75 - 125	20
Total Silver	0.123	0.125	mg/L	1	0.12	<0.0125	98	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC19809

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.518	0.507	mg/L	1	0.50	<0.050	103	2	75 - 125	20
Total Barium	1.02	1.02	mg/L	1	1	<0.100	102	0	75 - 125	20
Total Cadmium	0.241	0.232	mg/L	1	0.25	<0.005	96	3	75 - 125	20
Total Chromium	0.102	0.102	mg/L	1	0.10	<0.010	102	0	75 - 125	20
Total Lead	0.492	0.488	mg/L	1	0.50	<0.010	98	0	75 - 125	20
Total Selenium	0.434	0.432	mg/L	1	0.50	<0.050	86	0	75 - 125	20
Total Silver	0.123	0.125	mg/L	1	0.12	<0.0125	98	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC19892

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.01	12.19	mg/L	1	12.50	<2.0	96	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC19905

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00095	0.00098	mg/L	1	0.001	<0.0002	95	3	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC19906

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00095	0.00098	mg/L	1	0.001	<0.0002	95	3	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC19907

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00099	0.00101	mg/L	1	0.001	<0.0002	99	2	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC19975

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Bromide	2.56	2.47	mg/L	1	2.50	<0.2	102	3	90 - 110	20
Chloride	12.01	12.01	mg/L	1	12.50	<2.0	96	0	90 - 110	20
Fluoride	2.38	2.47	mg/L	1	2.50	<0.2	95	3	90 - 110	20
Nitrate-N	2.45	2.45	mg/L	1	2.50	<0.2	98	0	90 - 110	20
Sulfate	12.52	12.62	mg/L	1	12.50	<2.0	100	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20001

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.43	12.47	mg/L	1	12.50	<2.0	99	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20091

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.36	12.31	mg/L	1	12.50	<2.0	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20092

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	12.31	12.35	mg/L	1	12.50	<2.0	98	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC19770

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.467	0.457	mg/L	1	0.50	<0.050	93	2	75 - 125	20
Total Barium	0.799	0.816	mg/L	1	1	<0.100	79	2	75 - 125	20
Total Cadmium	¹ 0.170	0.173	mg/L	1	0.25	<0.005	68	1	75 - 125	20
Total Chromium	0.0781	0.0789	mg/L	1	0.10	<0.010	78	1	75 - 125	20
Total Lead	² 0.354	0.360	mg/L	1	0.50	<0.010	70	1	75 - 125	20
Total Selenium	0.384	0.396	mg/L	1	0.50	<0.050	76	3	75 - 125	20
Total Silver	0.117	0.119	mg/L	1	0.12	<0.0125	93	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19808

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.491	0.490	mg/L	1	0.50	<0.050	98	0	75 - 125	20
Total Barium	2.94	2.94	mg/L	1	1	<0.100	75	0	75 - 125	20
Total Cadmium	0.206	0.204	mg/L	1	0.25	<0.005	82	0	75 - 125	20
Total Chromium	0.092	0.0906	mg/L	1	0.10	<0.010	92	2	75 - 125	20
Total Lead	0.431	0.434	mg/L	1	0.50	<0.010	86	1	75 - 125	20

Continued ...

¹Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

²Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

... Continued

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Selenium	0.422	0.420	mg/L	1	0.50	<0.050	84	0	75 - 125	20
Total Silver	0.114	0.116	mg/L	1	0.12	<0.0125	91	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19809

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.383	0.371	mg/L	1	0.50	<0.050	76	3	75 - 125	20
Total Barium	³ 0.657	0.587	mg/L	1	1	2.19	65	11	75 - 125	20
Total Cadmium	⁴ 0.102	0.122	mg/L	1	0.25	<0.005	40	17	75 - 125	20
Total Chromium	⁵ 0.0585	0.0577	mg/L	1	0.10	<0.010	58	1	75 - 125	20
Total Lead	⁶ 0.214	0.254	mg/L	1	0.50	<0.010	42	17	75 - 125	20
Total Selenium	⁷ 0.315	0.309	mg/L	1	0.50	<0.050	63	1	75 - 125	20
Total Silver	0.0991	0.0972	mg/L	1	0.12	<0.0125	79	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19892

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	58400	58200	mg/L	1	12500	47600	86	1	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19905

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00109	0.00103	mg/L	1	0.001	<0.0002	109	5	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19906

³Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

⁴Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

⁵Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

⁶Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

⁷Matrix spike recovery invalid due to matrix difficulties. LCS demonstrates process under control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00099	⁸ 0.00139	mg/L	1	0.001	<0.0002	99	33	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19907

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00093	0.00089	mg/L	1	0.001	<0.0002	93	4	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20001

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	28500	28700	mg/L	1	6250	758	92	3	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20091

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	9535	9527	mg/L	1	2500	7210	93	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20092

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	2165	2167	mg/L	1	1250	949	97	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC19698

⁸MS RECOVERY INVALID DUE TO SPIKING ERROR. USE LCS/LCSD TO DEMONSTRATE THE RUN IS UNDER CONTROL.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0904	90	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0926	93	85 - 115	4/19/02
Toluene		mg/L	0.10	0.0921	92	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0919	92	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.273	91	85 - 115	4/19/02

CCV (2) QCBatch: QC19698

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.084	84	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0889	88	85 - 115	4/19/02
Toluene	9	mg/L	0.10	0.0874	87	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0873	87	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.259	86	85 - 115	4/19/02

CCV (1) QCBatch: QC19698

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.098	98	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0975	98	85 - 115	4/19/02
Toluene		mg/L	0.10	0.0982	98	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0973	97	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.291	97	85 - 115	4/19/02

CCV (1) QCBatch: QC19699

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0905	90	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0945	94	85 - 115	4/19/02
Toluene		mg/L	0.10	0.0926	93	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0928	93	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.275	92	85 - 115	4/19/02

CCV (2) QCBatch: QC19699

⁹MTBE outside normal limits. Average (86.8) of CCV components within acceptable range.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE	10	mg/L	0.10	0.0844	84	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0898	89	85 - 115	4/19/02
Toluene		mg/L	0.10	0.0897	89	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0904	90	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.268	89	85 - 115	4/19/02

ICV (1) QCBatch: QC19699

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0865	86	85 - 115	4/19/02
Benzene		mg/L	0.10	0.0908	91	85 - 115	4/19/02
Toluene		mg/L	0.10	0.0891	89	85 - 115	4/19/02
Ethylbenzene		mg/L	0.10	0.0893	89	85 - 115	4/19/02
M,P,O-Xylene		mg/L	0.30	0.265	88	85 - 115	4/19/02

CCV (1) QCBatch: QC19733

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.102	102	85 - 115	4/22/02
Benzene		mg/L	0.10	0.103	103	85 - 115	4/22/02
Toluene		mg/L	0.10	0.104	104	85 - 115	4/22/02
Ethylbenzene		mg/L	0.10	0.106	106	85 - 115	4/22/02
M,P,O-Xylene		mg/L	0.30	0.315	105	85 - 115	4/22/02

CCV (2) QCBatch: QC19733

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.104	104	85 - 115	4/22/02
Benzene		mg/L	0.10	0.105	105	85 - 115	4/22/02
Toluene		mg/L	0.10	0.104	104	85 - 115	4/22/02
Ethylbenzene		mg/L	0.10	0.105	105	85 - 115	4/22/02
M,P,O-Xylene		mg/L	0.30	0.309	103	85 - 115	4/22/02

ICV (1) QCBatch: QC19733

¹⁰MTBE outside normal limits. Average (88.7) of CCV components within acceptable range.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0971	97	85 - 115	4/22/02
Benzene		mg/L	0.10	0.102	102	85 - 115	4/22/02
Toluene		mg/L	0.10	0.0999	100	85 - 115	4/22/02
Ethylbenzene		mg/L	0.10	0.103	103	85 - 115	4/22/02
M,P,O-Xylene		mg/L	0.30	0.304	101	85 - 115	4/22/02

CCV (1) QCBatch: QC19770

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.02	102	90 - 110	4/23/02
Total Barium		mg/L	2	2.00	100	90 - 110	4/23/02
Total Cadmium		mg/L	0.50	0.496	99	90 - 110	4/23/02
Total Chromium		mg/L	0.20	0.200	100	90 - 110	4/23/02
Total Lead		mg/L	1	0.984	98	90 - 110	4/23/02
Total Selenium		mg/L	1	0.974	97	90 - 110	4/23/02
Total Silver		mg/L	0.25	0.244	97	90 - 110	4/23/02

ICV (1) QCBatch: QC19770

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.02	102	95 - 105	4/23/02
Total Barium		mg/L	2	1.97	98	95 - 105	4/23/02
Total Cadmium		mg/L	0.50	0.493	98	95 - 105	4/23/02
Total Chromium		mg/L	0.20	0.200	100	95 - 105	4/23/02
Total Lead		mg/L	1	1.00	100	95 - 105	4/23/02
Total Selenium		mg/L	1	0.990	99	95 - 105	4/23/02
Total Silver		mg/L	0.25	0.242	96	95 - 105	4/23/02

CCV (1) QCBatch: QC19808

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.01	101	90 - 110	4/24/02
Total Barium		mg/L	2	1.85	92	90 - 110	4/24/02
Total Cadmium		mg/L	0.50	0.460	92	90 - 110	4/24/02
Total Chromium		mg/L	0.20	0.199	100	90 - 110	4/24/02
Total Lead		mg/L	1	0.978	98	90 - 110	4/24/02
Total Selenium		mg/L	1	0.992	99	90 - 110	4/24/02
Total Silver		mg/L	0.25	0.226	90	90 - 110	4/24/02

ICV (1) QCBatch: QC19808

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.01	101	95 - 105	4/24/02
Total Barium		mg/L	2	1.97	98	95 - 105	4/24/02
Total Cadmium		mg/L	0.50	0.493	99	95 - 105	4/24/02
Total Chromium		mg/L	0.20	0.198	99	95 - 105	4/24/02
Total Lead		mg/L	1	0.985	98	95 - 105	4/24/02
Total Selenium		mg/L	1	0.984	98	95 - 105	4/24/02
Total Silver		mg/L	0.25	0.244	98	95 - 105	4/24/02

CCV (1) QCBatch: QC19809

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.06	106	90 - 110	4/24/02
Total Barium		mg/L	2	2.06	103	90 - 110	4/24/02
Total Cadmium		mg/L	0.50	0.507	101	90 - 110	4/24/02
Total Chromium		mg/L	0.20	0.206	103	90 - 110	4/24/02
Total Lead		mg/L	1	1.01	101	90 - 110	4/24/02
Total Selenium		mg/L	1	1.02	102	90 - 110	4/24/02
Total Silver		mg/L	0.25	0.255	102	90 - 110	4/24/02

ICV (1) QCBatch: QC19809

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.01	101	95 - 105	4/24/02
Total Barium		mg/L	2	1.97	98	95 - 105	4/24/02
Total Cadmium		mg/L	0.50	0.493	98	95 - 105	4/24/02
Total Chromium		mg/L	0.20	0.198	99	95 - 105	4/24/02
Total Lead		mg/L	1	0.985	98	95 - 105	4/24/02
Total Selenium		mg/L	1	0.984	98	95 - 105	4/24/02
Total Silver		mg/L	0.25	0.244	97	95 - 105	4/24/02

CCV (1) QCBatch: QC19892

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
chloride		mg/L	12.50	11.91	95	90 - 110	4/23/02

ICV (1) QCBatch: QC19892

Report Date: June 4, 2002
786

Order Number: A02041921
Texaco South Eunice Gas Plant

Page Number: 39 of 41
Eunice Plant

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.91	95	90 - 110	4/23/02

CCV (1) QCBatch: QC19905

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	4/26/02

ICV (1) QCBatch: QC19905

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00107	107	80 - 120	4/26/02

CCV (1) QCBatch: QC19906

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00104	104	80 - 120	4/26/02

ICV (1) QCBatch: QC19906

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00107	107	80 - 120	4/26/02

CCV (1) QCBatch: QC19907

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00106	106	80 - 120	4/26/02

ICV (1) QCBatch: QC19907

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00107	107	80 - 120	4/26/02

CCV (1) QCBatch: QC19975

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.55	102	90 - 110	4/25/02
Chloride		mg/L	12.50	11.52	92	90 - 110	4/25/02
Fluoride		mg/L	2.50	2.49	99	90 - 110	4/25/02
Nitrate-N		mg/L	2.50	2.47	98	90 - 110	4/25/02
Sulfate		mg/L	12.50	12.43	99	90 - 110	4/25/02

ICV (1) QCBatch: QC19975

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.53	101	90 - 110	4/25/02
Chloride		mg/L	12.50	11.52	92	90 - 110	4/25/02
Fluoride		mg/L	2.50	2.46	98	90 - 110	4/25/02
Nitrate-N		mg/L	2.50	2.46	98	90 - 110	4/25/02
Sulfate		mg/L	12.50	12.08	96	90 - 110	4/25/02

CCV (1) QCBatch: QC20001

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.46	99	90 - 110	4/25/02

ICV (1) QCBatch: QC20001

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.11	96	90 - 110	4/25/02

CCV (1) QCBatch: QC20091

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.16	97	90 - 110	4/29/02

ICV (1) QCBatch: QC20091

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.26	98	90 - 110	4/29/02

CCV (1) QCBatch: QC20092

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.32	98	90 - 110	4/29/02

ICV (1) QCBatch: QC20092

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	12.16	97	90 - 110	4/29/02

Analysis Request and Chain of Custody Record

PAGE: 1 OF 3

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559

Fax (915) 682-3948

CLIENT NAME:

SITE MANAGER:

PROJECT NO.:

PROJECT NAME:

LAB I.D.
NUMBER

DATE

TIME

MATRIX

COMP.

GRAB

SAMPLE IDENTIFICATION

NUMBER OF CONTAINERS

FILTERED (Y/N)

PRESERVATIVE
METHOD

HCL

HNOS

ICE

NONE

ETEX 8020/802

MTBE 8020/802

TPH 418.1

PAH 8270

PCBA Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. B240/B280/B24

GC/MS Semi. Vol. B270/B25

PCB's 8080/808

Pest. 808/808

BOD, TSS, pH, TDS, Chloride

Gamma Spec.

Alpha Beta (Air)

PLM (Asbestos)

Chloride

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLED BY: (Print & Sign)

Date:

Time:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

SAMPLE SHIPPED BY: (Circle)

FEDEX

BUS

AIRBILL #

HAND DELIVERED

UPS

OTHER:

RELINQUISHED BY: (Signature)

Date:

Time:

RECEIVED BY: (Signature)

Date:

Time:

HIGHLANDER CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY:

STATE:

ZIP:

CONTACT:

PHONE:

RECEIVED BY: (Signature)

DATE:

TIME:

HIGHLANDER CONTACT PERSON:

Ike Tovar

RUSH Charges

Authorized:

Yes

No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX:

W-Water

A-Air

SD-Solid

S-Soil

SL-Sludge

O-Other

REMARKS:

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559

Fax (915) 682-3946

PAGE: 2 OF: 3

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: <u>Enrico E.P. Inc.</u>				SITE MANAGER: <u>Ike Tovar</u>				NUMBER OF CONTAINERS FILTERED (Y/N)		PRESERVATIVE METHOD		<table border="1"> <tr> <td>BTX 8020/802</td> <td>MTX 8020/802</td> <td>TPH 418.1</td> <td>8015 MOD.</td> <td>TK1005</td> <td>PAR 8270</td> <td>RCRA Metals Ag As Ba Cd Cr Pb Hg Se</td> <td>TCLP Metals Ag As Ba Cd Cr Pb Hg Se</td> <td>TCLP Volatiles</td> <td>TCLP Semi Volatiles</td> <td>RCI</td> <td>GC/MS Vol. 8240/8280/824</td> <td>GC/MS Semi. Vol. 8270/825</td> <td>PCB's 8080/808</td> <td>Post. 808/808</td> <td>BOD, TSS, pH, TDS, Chloride</td> <td>Gamma Spec.</td> <td>Alpha Beta (Air)</td> <td>PLM (Asbestos)</td> </tr> </table>																BTX 8020/802	MTX 8020/802	TPH 418.1	8015 MOD.	TK1005	PAR 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
BTX 8020/802	MTX 8020/802	TPH 418.1	8015 MOD.	TK1005	PAR 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se																					TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)								
PROJECT NO.: <u>746</u>		PROJECT NAME: <u>Enrico South Plant</u>																																												
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTX 8020/802	MTX 8020/802	TPH 418.1	8015 MOD.	TK1005	PAR 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)															
17051	4/14/02	10:30				MWD-6	4	Y	✓	✓	✓	✓	✓							✓																										
52	4/14/02	1:55				MWD-9	4	Y	✓	✓	✓	✓	✓							✓																										
53	4/17/02	12:45				MWD-2	4	Y	✓	✓	✓	✓	✓							✓																										
54	4/17/02	11:15				MWD-7	4	Y	✓	✓	✓	✓	✓							✓																										
55	4/17/02	3:10				MWD-10	4	Y	✓	✓	✓	✓	✓							✓																										
56	4/17/02	6:05				MWD-11	4	Y	✓	✓	✓	✓	✓							✓																										
57	4/17/02	1:55				MWD-14	4	Y	✓	✓	✓	✓	✓							✓																										
58	4/18/02	2:35				MWD-8	4	Y	✓	✓	✓	✓	✓							✓																										
59	4/18/02	10:15				MWD-18	4	Y	✓	✓	✓	✓	✓							✓																										
60	4/18/02	11:10				MWD-4	4	Y	✓	✓	✓	✓	✓							✓																										
RELINQUISHED BY: (Signature)		Date: <u>4-19-02</u>		RECEIVED BY: (Signature)		Date: <u>4-19-02</u>		SAMPLED BY: (Print & Sign)		Date: <u>4-19-02</u>																																				
RELINQUISHED BY: (Signature)		Date: <u>4-18-02</u>		RECEIVED BY: (Signature)		Date: <u>4-18-02</u>		SAMPLE SHIPPED BY: (Circle)		Date: <u>4-18-02</u>																																				
RELINQUISHED BY: (Signature)		Date: <u>4-18-02</u>		RECEIVED BY: (Signature)		Date: <u>4-18-02</u>		FEDEX		AIRBILL #																																				
RELINQUISHED BY: (Signature)		Date: <u>4-18-02</u>		RECEIVED BY: (Signature)		Date: <u>4-18-02</u>		HAND DELIVERED		OTHER:																																				
RECEIVING LABORATORY:		ADDRESS:		CITY:		STATE:		ZIP:		HIGHLANDER CONTACT PERSON:																																				
CONTACT:		PHONE:		DATE: <u>4-19-02</u>		TIME: <u>10:00</u>		Ike Tovar		RESULTS by:																																				
SAMPLE CONDITION WHEN RECEIVED:		MATRIX:		REMARKS:		RUSH Charges		Authorized:		Yes No																																				

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

44 403-06-021 40 samples - HS

Analysis Request and Chain of Custody Record

PAGE: 3 OF: 3

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 682-4559

Fax (915) 682-3946

ANALYSIS REQUEST

(Circle or Specify Method No.)

CLIENT NAME: <u>Permco E&P, Inc.</u>			SITE MANAGER: <u>Ike Toworke</u>			NUMBER OF CONTAINERS	PRESERVATIVE METHOD				BTEX 8020/802	MTBE 8020/808	TPH 418.1	RO15 MOD.	TIC006	PCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	BCI	GC-MS Vol. 8240/8260/824	GC-MS Semi. Vol. 8270/825	PCB's 8080/808	Pest. 809/808	ROD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)		
PROJECT NO.: <u>786</u>	PROJECT NAME: <u>Exxon South Plant</u>			FILTERED (Y/N)	HCL		KNO3	ICE	NONE																					
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION																								
<u>62B-4</u>	<u>4/18/02</u>	<u>7:15 AM</u>				<u>MW-11</u>	<u>(Duplicate)</u>				<u>4</u>	<u>Y</u>																		
<u>62</u>	<u>4/18/02</u>	<u>12:20</u>				<u>MW-19</u>					<u>4</u>	<u>Y</u>																		
<u>63</u>	<u>4/18/02</u>	<u>2:20</u>				<u>RW-1</u>					<u>2</u>	<u>Y</u>																		
<u>44</u>	<u>4/18/02</u>	<u>1:35</u>				<u>MW-9</u>					<u>4</u>	<u>Y</u>																		

RELINQUISHED BY: (Signature) <u>Permco E&P, Inc.</u>	Date: <u>4/18/02</u> Time: <u>5:00</u>	RECEIVED BY: (Signature) <u>Ike Toworke</u>	Date: <u>4/18/02</u> Time: <u>5:00</u>	SAMPLED BY: (Print & Sign) <u>Ike Toworke</u>	Date: <u>4/18/02</u> Time: <u>5:00</u>
RELINQUISHED BY: (Signature) <u>Permco E&P, Inc.</u>	Date: <u>4/18/02</u> Time: <u>12:30</u>	RECEIVED BY: (Signature) <u>Ike Toworke</u>	Date: <u>4/18/02</u> Time: <u>12:30</u>	SAMPLE SHIPPED BY: (Signature) <u>Ike Toworke</u>	Date: <u>4/18/02</u> Time: <u>12:30</u>
RELINQUISHED BY: (Signature) <u>Permco E&P, Inc.</u>	Date: <u>4/18/02</u> Time: <u>12:30</u>	RECEIVED BY: (Signature) <u>Ike Toworke</u>	Date: <u>4/18/02</u> Time: <u>12:30</u>	FEDEX <u>BUS</u>	AIRBILL # <u> </u>
RECEIVING LABORATORY: <u>Permco E&P, Inc.</u>	ADDRESS: <u> </u>	CITY: <u> </u>	STATE: <u> </u>	ZIP: <u> </u>	CONTACT: <u> </u>
RECEIVED BY: (Signature) <u>Ike Toworke</u>			RECEIVED BY: (Signature) <u>Ike Toworke</u>		
DATE: <u>4/19/02</u>			TIME: <u>9:00 AM</u>		
HIGHLANDER CONTACT PERSON: <u>Ike Toworke</u>				Results by: <u> </u>	
RUSH Charges Authorized: <u> </u>				Yes <u> </u> No <u> </u>	

SAMPLE CONDITION WHEN RECEIVED:	MATRIX: <u>W-Water</u> <u>A-Air</u> <u>SD-Solid</u> <u>S-Soil</u> <u>SL-Sludge</u> <u>O-Other</u>	REMARKS:
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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

14 samples - AS

Report Date: May 7, 2002 Order Number: A02042411
 786 Texaco South Eunice Gas Plant

Page Number: 1 of 4
 Eunice Plant

Summary Report

Ike Tavaraz
 Highlander Environmental Services
 1910 N. Big Spring St.
 Midland, TX 79705

Report Date: May 7, 2002

Order ID Number: A02042411

Project Number: 786
 Project Name: Texaco South Eunice Gas Plant
 Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195498	MW-3	Water	4/22/02	15:10	4/24/02
195499	MW-11	Water	4/22/02	10:05	4/24/02
195500	MW-12	Water	4/22/02	10:40	4/24/02
195501	MW-13	Water	4/22/02	9:15	4/24/02
195502	MW-14	Water	4/22/02	15:50	4/24/02
195503	MW-15	Water	4/23/02	10:55	4/24/02
195504	MW-16	Water	4/23/02	10:15	4/24/02
195505	MW-25	Water	4/22/02	10:40	4/24/02
195506	MW-27	Water	4/22/02	13:15	4/24/02
195507	MW-28	Water	4/22/02	12:10	4/24/02
195508	MW-26	Water	4/22/02	13:45	4/24/02

0 This report consists of a total of 4 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
195498 - MW-3	0.0135	0.0089	0.0014	0.0019	0.0257
195499 - MW-11	39.6	5.17	0.632	0.786	46.2
195500 - MW-12	71.7	37.9	1.97	3.04	115
195501 - MW-13	0.0151	<0.005	<0.005	<0.005	0.0151
195502 - MW-14	0.011	0.0076	<0.001	<0.001	0.0186
195503 - MW-15	0.0052	0.0029	<0.001	<0.001	0.0081
195504 - MW-16	0.0052	0.0035	<0.001	<0.001	0.0087
195505 - MW-25	2.43	<0.050	0.248	<0.050	2.68
195506 - MW-27	12.8	0.409	0.302	<0.100	13.5
195507 - MW-28	24.8	13.2	0.589	0.736	39.3
195508 - MW-26	6.76	<0.050	0.153	<0.050	6.91

Sample: 195498 - MW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L

Continued on next page ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: May 7, 2002 Order Number: A02042411
786 Texaco South Eunice Gas Plant

Page Number: 2 of 4
Eunice Plant

Sample 195498 continued ...

Param	Flag	Result	Units
Total Barium		0.158	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195499 - MW-11

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		0.0692	mg/L
Total Barium		4.36	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195500 - MW-12

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		0.587	mg/L
Total Barium		1.97	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195501 - MW-13

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		2.70	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: May 7, 2002 Order Number: A02042411
786 Texaco South Eunice Gas Plant

Page Number: 3 of 4
Eunice Plant

Sample: 195502 - MW-14

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195503 - MW-15

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195504 - MW-16

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.172	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195505 - MW-25

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.161	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Report Date: May 7, 2002 Order Number: A02042411
786 Texaco South Eunice Gas Plant

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Eunice Plant

Sample: 195506 - MW-27

Param	Flag	Result	Units
Total Mercury		0.00042	mg/L
Total Arsenic		0.174	mg/L
Total Barium		0.161	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195507 - MW-28

Param	Flag	Result	Units
Total Mercury		0.00047	mg/L
Total Arsenic		0.214	mg/L
Total Barium		0.250	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 195508 - MW-26

Param	Flag	Result	Units
Total Mercury		0.00048	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		3.92	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L



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E Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: May 7, 2002

Order ID Number: A02042411

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

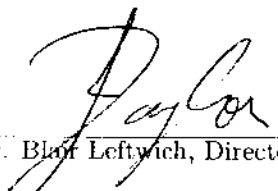
Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
95498	MW-3	Water	4/22/02	15:10	4/24/02
195499	MW-11	Water	4/22/02	10:05	4/24/02
195500	MW-12	Water	4/22/02	10:40	4/24/02
195501	MW-13	Water	4/22/02	9:15	4/24/02
195502	MW-14	Water	4/22/02	15:50	4/24/02
195503	MW-15	Water	4/23/02	10:55	4/24/02
195504	MW-16	Water	4/23/02	10:15	4/24/02
195505	MW-25	Water	4/22/02	10:40	4/24/02
195506	MW-27	Water	4/22/02	13:15	4/24/02
195507	MW-28	Water	4/22/02	12:10	4/24/02
195508	MW-26	Water	4/22/02	13:45	4/24/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Analytical Report

Sample: 195498 - MW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0135	mg/L	1	0.001
Toluene		0.0089	mg/L	1	0.001
Ethylbenzene		0.0014	mg/L	1	0.001
M,P,O-Xylene		0.0019	mg/L	1	0.001
Total BTEX		0.0257	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0884	mg/L	1	0.10	88	70 - 130
4-BFB		0.0985	mg/L	1	0.10	98	70 - 130

Sample: 195498 - MW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195498 - MW-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.158	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195499 - MW-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		39.6	mg/L	100	0.001
Toluene		5.17	mg/L	100	0.001
Ethylbenzene		0.632	mg/L	100	0.001

Continued ...

... Continued Sample: 195499 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		0.786	mg/L	100	0.001
Total BTEX		46.2	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0878	mg/L	100	0.10	87	70 - 130
4-BFB		0.0942	mg/L	100	0.10	94	70 - 130

Sample: 195499 - MW-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195499 - MW-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0692	mg/L	1	0.05
Total Barium		4.36	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195500 - MW-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		71.7	mg/L	500	0.001
Toluene		37.9	mg/L	500	0.001
Ethylbenzene		1.97	mg/L	500	0.001
M,P,O-Xylene		3.04	mg/L	500	0.001
Total BTEX		115	mg/L	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0847	mg/L	500	0.10	84	70 - 130
4-BFB		0.0906	mg/L	500	0.10	90	70 - 130

Report Date: May 7, 2002
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Order Number: A02042411
Texaco South Eunice Gas Plant

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Eunice Plant

Sample: 195500 - MW-12

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195500 - MW-12

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.587	mg/L	1	0.05
Total Barium		1.97	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195501 - MW-13

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0151	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		0.0151	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0869	mg/L	5	0.10	86	70 - 130
4-BFB		0.0956	mg/L	5	0.10	95	70 - 130

Sample: 195501 - MW-13

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195501 - MW-13

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Report Date: May 7, 2002
786

Order Number: A02042411
Texaco South Eunice Gas Plant

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Eunice Plant

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		2.70	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195502 - MW-14

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.011	mg/L	1	0.001
Toluene		0.0076	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0186	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
FT		0.107	mg/L	1	0.10	107	70 - 130
4-BFB		0.0996	mg/L	1	0.10	100	70 - 130

Sample: 195502 - MW-14

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195502 - MW-14

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195503 - MW-15

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0052	mg/L	1	0.001
Toluene		0.0029	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0081	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0906	mg/L	1	0.10	91	70 - 130
4-BFB		0.0977	mg/L	1	0.10	98	70 - 130

Sample: 195503 - MW-15

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195503 - MW-15

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195504 - MW-16

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0052	mg/L	1	0.001
Toluene		0.0035	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0087	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0901	mg/L	1	0.10	90	70 - 130
4-BFB		0.0921	mg/L	1	0.10	92	70 - 130

Sample: 195504 - MW-16

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195504 - MW-16

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		0.172	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195505 - MW-25

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		2.43	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		0.248	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		2.68	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		4.08	mg/L	1	0.10	81	70 - 130
4-BFB		4.41	mg/L	1	0.10	88	70 - 130

Sample: 195505 - MW-25

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20126 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

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Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 195505 - MW-25

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.161	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195506 - MW-27

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19851 Date Analyzed: 4/24/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19062 Date Prepared: 4/24/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		12.8	mg/L	100	0.001
Toluene		0.409	mg/L	100	0.001
Ethylbenzene		0.302	mg/L	100	0.001
M,P,O-Xylene		<0.100	mg/L	100	0.001
Total BTEX		13.5	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		8.71	mg/L	1	0.10	87	70 - 130
4-BFB		9.53	mg/L	1	0.10	95	70 - 130

Sample: 195506 - MW-27

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20127 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00042	mg/L	1	0.0002

Sample: 195506 - MW-27

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.174	mg/L	1	0.05
Total Barium		0.161	mg/L	1	0.10

Continued ...

...Continued Sample: 195506 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195507 - MW-28

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		24.8	mg/L	100	0.001
Toluene		13.2	mg/L	100	0.001
Ethylbenzene		0.589	mg/L	100	0.001
M,P,O-Xylene		0.736	mg/L	100	0.001
Total BTEX		39.3	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
FT		0.0882	mg/L	100	0.10	88	70 - 130
BFB		0.0944	mg/L	100	0.10	94	70 - 130

Sample: 195507 - MW-28

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20127 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00047	mg/L	1	0.0002

Sample: 195507 - MW-28

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19904 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.214	mg/L	1	0.05
Total Barium		0.250	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 195508 - MW-26

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC19870 Date Analyzed: 4/25/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB19078 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		6.76	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		0.153	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		6.91	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.085	mg/L	50	0.10	85	70 - 130
4-BFB		0.0908	mg/L	50	0.10	90	70 - 130

Sample: 195508 - MW-26

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC20127 Date Analyzed: 5/6/02
Analyst: BC Preparation Method: N/A Prep Batch: PB19289 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00048	mg/L	1	0.0002

Sample: 195508 - MW-26

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC19902 Date Analyzed: 4/26/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB19044 Date Prepared: 4/25/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		3.92	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Quality Control Report Method Blank

Method Blank QCBatch: QC19851

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0901	mg/L	1	0.10	90	70 - 130
4-BFB		0.0902	mg/L	1	0.10	90	70 - 130

Method Blank QCBatch: QC19870

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	1	0	mg/L	1	0.10	0	70 - 130
4-BFB	2	0	mg/L	1	0.10	0	70 - 130

Method Blank QCBatch: QC19902

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

¹No surrogate added to method blank. ICV, CCV, CCV shows the method to be in control.

²No surrogate added to method blank. ICV, CCV, CCV shows the method to be in control.

Method Blank QCBatch: QC19904

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC20126

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC20127

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC19851

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0989	0.100	mg/L	1	0.10	<0.001	99	1	70 - 130	20
Benzene	0.0985	0.0984	mg/L	1	0.10	<0.001	98	0	70 - 130	20
Toluene	0.0982	0.0989	mg/L	1	0.10	<0.001	98	1	70 - 130	20
Ethylbenzene	0.100	0.101	mg/L	1	0.10	<0.001	100	1	70 - 130	20
M,P,O-Xylene	0.297	0.302	mg/L	1	0.30	<0.001	99	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0895	0.0894	mg/L	1	0.10	90	89	70 - 130
4-BFB	0.0914	0.0954	mg/L	1	0.10	91	95	70 - 130

Laboratory Control Spikes QCBatch: QC19870

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.104	0.107	mg/L	1	0.10	<0.001	104	3	70 - 130	20
Benzene	0.105	0.102	mg/L	1	0.10	<0.001	105	3	70 - 130	20
Toluene	0.103	0.1	mg/L	1	0.10	<0.001	103	2	70 - 130	20
Ethylbenzene	0.106	0.104	mg/L	1	0.10	<0.001	106	2	70 - 130	20
M,P,O-Xylene	0.312	0.310	mg/L	1	0.30	<0.001	104	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0946	0.0921	mg/L	1	0.10	95	92	70 - 130
4-BFB	0.0949	0.0958	mg/L	1	0.10	95	96	70 - 130

Laboratory Control Spikes QCBatch: QC19902

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Lead	0.507	0.507	mg/L	1	0.50	<0.010	101	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC19904

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.482	0.499	mg/L	1	0.50	<0.050	96	3	85 - 115	20
Total Barium	1.03	1.02	mg/L	1	1	<0.100	103	0	85 - 115	20
Total Cadmium	0.246	0.247	mg/L	1	0.25	<0.005	98	0	85 - 115	20
Total Chromium	0.106	0.105	mg/L	1	0.10	<0.010	106	0	85 - 115	20
Total Lead	0.507	0.507	mg/L	1	0.50	<0.010	101	0	85 - 115	20
Total Selenium	0.437	0.433	mg/L	1	0.50	<0.050	87	0	85 - 115	20
Total Silver	0.125	0.125	mg/L	1	0.12	<0.0125	100	0	85 - 115	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20126

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00102	0.00099	mg/L	1	0.001	<0.0002	102	2	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20127

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00102	0.00099	mg/L	1	0.001	<0.0002	102	2	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC19902

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.506	0.504	mg/L	1	0.50	<0.050	101	0	75 - 125	20
Total Barium	1.04	1.02	mg/L	1	1	<0.100	104	1	75 - 125	20
Total Cadmium	0.230	0.227	mg/L	1	0.25	<0.005	92	1	75 - 125	20
Total Chromium	0.0996	0.100	mg/L	1	0.10	<0.010	99	0	75 - 125	20
Total Lead	0.472	0.474	mg/L	1	0.50	<0.010	94	0	75 - 125	20
Total Selenium	0.437	0.446	mg/L	1	0.50	<0.050	87	2	75 - 125	20
Total Silver	0.124	0.122	mg/L	1	0.12	<0.0125	99	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC19904

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.490	0.478	mg/L	1	0.50	<0.050	98	2	75 - 125	20
Total Barium	1.12	1.13	mg/L	1	1	0.158	96	1	75 - 125	20
Total Cadmium	0.225	0.225	mg/L	1	0.25	<0.005	90	0	75 - 125	20
Total Chromium	0.0986	0.0964	mg/L	1	0.10	<0.010	98	2	75 - 125	20
Total Lead	0.464	0.457	mg/L	1	0.50	<0.010	92	1	75 - 125	20
Total Selenium	0.442	0.432	mg/L	1	0.50	<0.050	88	2	75 - 125	20
Total Silver	0.125	0.126	mg/L	1	0.12	<0.0125	100	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20126

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00101	0.00099	mg/L	1	0.001	<0.0002	101	2	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20127

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	³ 0.00084	⁴ 0.00092	mg/L	1	0.001	0.00042	42	17	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC19851

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0987	99	85 - 115	4/24/02
Benzene		mg/L	0.10	0.097	97	85 - 115	4/24/02
Toluene		mg/L	0.10	0.0973	97	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.100	100	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.298	99	85 - 115	4/24/02

CCV (2) QCBatch: QC19851

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0897	89	85 - 115	4/24/02
Benzene		mg/L	0.10	0.0914	91	85 - 115	4/24/02
Toluene		mg/L	0.10	0.0912	91	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.093	93	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.277	92	85 - 115	4/24/02

ICV (1) QCBatch: QC19851

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0933	93	85 - 115	4/24/02
Benzene		mg/L	0.10	0.0918	92	85 - 115	4/24/02
Toluene		mg/L	0.10	0.0934	93	85 - 115	4/24/02
Ethylbenzene		mg/L	0.10	0.0981	98	85 - 115	4/24/02
M,P,O-Xylene		mg/L	0.30	0.290	97	85 - 115	4/24/02

CCV (1) QCBatch: QC19870

³ms recovery invalid due to matrix effect, use lcs/lcsd to demonstrate the run is under control.

⁴ms recovery invalid due to matrix effect, use lcs/lcsd to demonstrate the run is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0928	93	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0983	98	85 - 115	4/25/02
Toluene		mg/L	0.10	0.0992	99	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.104	104	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.304	101	85 - 115	4/25/02

CCV (2) QCBatch: QC19870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0931	93	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0958	95	85 - 115	4/25/02
Toluene		mg/L	0.10	0.1	100	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.1	100	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.3	100	85 - 115	4/25/02

ICV (1) QCBatch: QC19870

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE	⁵	mg/L	0.10	0.0819	82	85 - 115	4/25/02
Benzene		mg/L	0.10	0.0889	89	85 - 115	4/25/02
Toluene		mg/L	0.10	0.0908	91	85 - 115	4/25/02
Ethylbenzene		mg/L	0.10	0.0958	96	85 - 115	4/25/02
M,P,O-Xylene		mg/L	0.30	0.289	96	85 - 115	4/25/02

CCV (1) QCBatch: QC19902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1	1.01	101	90 - 110	4/26/02

ICV (1) QCBatch: QC19902

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1	1.01	101	95 - 105	4/26/02

⁵MTBE outside normal limits. Average(90.7) of ICV components within acceptable range.

CCV (1) QCBatch: QC19904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.00	100	90 - 110	4/26/02
Total Barium		mg/L	2	2.05	102	90 - 110	4/26/02
Total Cadmium		mg/L	0.50	0.507	101	90 - 110	4/26/02
Total Chromium		mg/L	0.20	0.204	102	90 - 110	4/26/02
Total Lead		mg/L	1	1.02	102	90 - 110	4/26/02
Total Selenium		mg/L	1	1.03	103	90 - 110	4/26/02
Total Silver		mg/L	0.25	0.260	104	90 - 110	4/26/02

ICV (1) QCBatch: QC19904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.00	100	95 - 105	4/26/02
Total Barium		mg/L	2	2.03	101	95 - 105	4/26/02
Total Cadmium		mg/L	0.50	0.505	101	95 - 105	4/26/02
Total Chromium		mg/L	0.20	0.202	101	95 - 105	4/26/02
Total Lead		mg/L	1	1.01	101	95 - 105	4/26/02
Total Selenium		mg/L	1	1.02	102	95 - 105	4/26/02
Total Silver		mg/L	0.25	0.252	100	95 - 105	4/26/02

CCV (1) QCBatch: QC20126

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00099	99	80 - 120	5/6/02

ICV (1) QCBatch: QC20126

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00093	93	80 - 120	5/6/02

CCV (1) QCBatch: QC20127

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00102	102	80 - 120	5/6/02

Report Date: May 7, 2002
786

Order Number: A02042411
Texaco South Eunice Gas Plant

Page Number: 18 of 18
Eunice Plant

ICV (1) QCBatch: QC20127

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00093	93	80 - 120	5/6/02

195498-50A

H0204211

Analysis Request and Chain of Custody Record										PAGE: 1 OF 1																							
HIGHLANDER ENVIRONMENTAL CORP.										ANALYSIS REQUEST																							
1910 N. Big Spring St. Midland, Texas 79705										(Circle or Specify Method No.)																							
(915) 682-4559 Fax (915) 682-3946																																	
CLIENT NAME: Texaco E&P Inc				SITE MANAGER: IKE TAVAREZ																													
PROJECT NO.: 786			PROJECT NAME: Eunice South PLANT, Low Co. N.M.																														
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	HTX 9020/602	MTS 9020/602	TPH 418.1	BOIS MOD. TX1006	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi. Vol. 8270/825	PCB's 8080/8108	Pest. 808/8108	BOD, TSS, pH, TDS, Chloride	Gemina Spec.	Alpha Beta (Air)	PLM (Asbestos)	Chloride		
195498	4/22/02	3:10	W			MW-3	4	Y	X	X	X	X	X						X														X
99	4/22/02	10:05	W			MW-11	4	Y	X	X	X	X	X						X														X
195500	4/22/02	10:40	W			MW-12	4	Y	X	X	X	X	X						X														X
01	4/23/02	9:15	W			MW-13	4	Y	X	X	X	X	X						X														X
02	4/22/02	3:50	W			MW-14	4	Y	X	X	X	X	X						X														X
03	4/23/02	10:55	W			MW-15	4	Y	X	X	X	X	X						X														X
04	4/23/02	10:15	W			MW-16	4	Y	X	X	X	X	X						X														X
05	4/22/02	10:40	W			MW-25	4	Y	X	X	X	X	X						X														X
06	4/22/02	11:15	W			MW-27	4	Y	X	X	X	X	X						X														X
07	4/22/02	12:10	W			MW-28	4	Y	X	X	X	X	X						X														X

RELINQUISHED BY: (Signature) [Signature]	Date: 4-23-02 Time: 16:30	RECEIVED BY: (Signature) [Signature]	Date: 4/23/02 Time: 16:30	SAMPLED BY: (Print & Sign) Armentrout/Taylor	Date: 4-23-02 Time: 4:00 PM
RELINQUISHED BY: (Signature) [Signature]	Date: 4-23-02 Time: 1830	RECEIVED BY: (Signature) [Signature]	Date: 4-24-02 Time: 10:00	SAMPLE SHIPPED BY: (Circle) FEDEX	AIRBILL #
RELINQUISHED BY: (Signature)	Date:	RECEIVED BY: (Signature)	Date:	HAND DELIVERED	OTHER:
RECEIVING LABORATORY: TRACE			HIGHLANDER CONTACT PERSON:		
ADDRESS:			IKE TAVAREZ		
CITY:			RESULTS BY:		
STATE:			RUSH Charge		
PHONE:			Authorized:		
DATE:			Yes No		
TIME:					
SAMPLE CONDITION WHEN RECEIVED:			REMARKS:		
MATRIX: W-Water A-Air SD-Solid					
S-Sol SL-Sludge O-Other					

Please fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

M 40 samples - HS - 010

Report Date: May 15, 2002 Order Number: A02042411
786 Texaco South Eunice Gas Plant

Page Number: 1 of 2
Eunice Plant

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: May 15, 2002

Order ID Number: A02042411

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195498	MW-3	Water	4/22/02	15:10	4/24/02
195499	MW-11	Water	4/22/02	10:05	4/24/02
195500	MW-12	Water	4/22/02	10:40	4/24/02
195501	MW-13	Water	4/22/02	9:15	4/24/02
195502	MW-14	Water	4/22/02	15:50	4/24/02
195503	MW-15	Water	4/23/02	10:55	4/24/02
195504	MW-16	Water	4/23/02	10:15	4/24/02
195505	MW-25	Water	4/22/02	10:40	4/24/02
195506	MW-27	Water	4/22/02	13:15	4/24/02
195507	MW-28	Water	4/22/02	12:10	4/24/02
195508	MW-26	Water	4/22/02	13:45	4/24/02

0 This report consists of a total of 2 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 195498 - MW-3

Param	Flag	Result	Units
Chloride		448	mg/L

Sample: 195499 - MW-11

Param	Flag	Result	Units
Chloride		848	mg/L

Sample: 195500 - MW-12

Param	Flag	Result	Units
Chloride		1350	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: May 15, 2002 Order Number: A02042411
786 Texaco South Eunice Gas Plant

Page Number: 2 of 2
Eunice Plant

Sample: 195501 - MW-13

Param	Flag	Result	Units
Chloride		375	mg/L

Sample: 195502 - MW-14

Param	Flag	Result	Units
Chloride		318	mg/L

Sample: 195503 - MW-15

Param	Flag	Result	Units
Chloride		2500	mg/L

Sample: 195504 - MW-16

Param	Flag	Result	Units
Chloride		1930	mg/L

Sample: 195505 - MW-25

Param	Flag	Result	Units
Chloride		2340	mg/L

Sample: 195506 - MW-27

Param	Flag	Result	Units
Chloride		1050	mg/L

Sample: 195507 - MW-28

Param	Flag	Result	Units
Chloride		1340	mg/L

Sample: 195508 - MW-26

Param	Flag	Result	Units
Chloride		751	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.



TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79927
E Mail: lab@traceanalysis.com

800•378•1296
806•794•1296
915•585•3443
FAX 806•794•1298
FAX 915•585•4944

Analytical and Quality Control Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: May 15, 2002

Order ID Number: A02042411

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195498	MW-3	Water	4/22/02	15:10	4/24/02
195499	MW-11	Water	4/22/02	10:05	4/24/02
195500	MW-12	Water	4/22/02	10:40	4/24/02
195501	MW-13	Water	4/22/02	9:15	4/24/02
195502	MW-14	Water	4/22/02	15:50	4/24/02
195503	MW-15	Water	4/23/02	10:55	4/24/02
195504	MW-16	Water	4/23/02	10:15	4/24/02
195505	MW-25	Water	4/22/02	10:40	4/24/02
195506	MW-27	Water	4/22/02	13:15	4/24/02
195507	MW-28	Water	4/22/02	12:10	4/24/02
195508	MW-26	Water	4/22/02	13:45	4/24/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:1 unless otherwise noted.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of Trace Analysis, Inc.



Dr. Blair Leftwich, Director

Analytical Report

Sample: 195498 - MW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		448	mg/L	10	1

Sample: 195499 - MW-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		848	mg/L	100	1

Sample: 195500 - MW-12

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1350	mg/L	100	1

Sample: 195501 - MW-13

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		375	mg/L	10	1

Sample: 195502 - MW-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		318	mg/L	10	1

Sample: 195503 - MW-15

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2500	mg/L	100	1

Report Date: May 15, 2002
786

Order Number: A02042411
Texaco South Eunice Gas Plant

Page Number: 3 of 5
Eunice Plant

Sample: 195504 - MW-16

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20137 Date Analyzed: 5/1/02
Analyst: JS Preparation Method: N/A Prep Batch: PB19293 Date Prepared: 5/1/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1930	mg/L	100	1

Sample: 195505 - MW-25

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20141 Date Analyzed: 5/3/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB19296 Date Prepared: 5/3/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2340	mg/L	100	1

Sample: 195506 - MW-27

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20141 Date Analyzed: 5/3/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB19296 Date Prepared: 5/3/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1050	mg/L	100	1

Sample: 195507 - MW-28

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20141 Date Analyzed: 5/3/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB19296 Date Prepared: 5/3/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1340	mg/L	100	1

Sample: 195508 - MW-26

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC20141 Date Analyzed: 5/3/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB19296 Date Prepared: 5/3/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		751	mg/L	50	1

Quality Control Report Method Blank

Method Blank QCBatch: QC20137

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC20141

Param	Flag	Results	Units	Reporting Limit
Chloride		<2.0	mg/L	1

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC20137

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.40	11.32	mg/L	1	12.50	<1.0	91	0	90 - 110	20
Sulfate	11.60	11.60	mg/L	1	12.50	<1.0	92	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes QCBatch: QC20141

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	13.08	13.19	mg/L	1	12.50	<2.0	104	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes QCBatch: QC20137

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	3038.47	3070.66	mg/L	1	1250	1930	88	1	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC20141

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	1379.56	1404.03	mg/L	1	625	751	100	195	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC20137

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.28	90	90 - 110	5/1/02
Sulfate		mg/L	12.50	11.47	91	90 - 110	5/1/02

ICV (1) QCBatch: QC20137

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.40	91	90 - 110	5/1/02
Sulfate		mg/L	12.50	11.77	94	90 - 110	5/1/02

CCV (1) QCBatch: QC20141

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	13.36	106	90 - 110	5/3/02

ICV (1) QCBatch: QC20141

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.98	95	90 - 110	5/3/02

A02042

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Trace Analysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: May 15, 2002 Order Number: A02042411
786 Texas South Eunice Gas PlantPage Number: 1 of 2
Eunice Plant

Summary Report

Lse Tavaraz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79706

Report Date: May 15, 2002

Order ID Number: A02042411

Project Number: 786
Project Name: Texas South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
195498	MW-3	Water	4/22/02	15:10	4/24/02
195499	MW-11	Water	4/22/02	10:05	4/24/02
195500	MW-12	Water	4/22/02	10:40	4/24/02
195501	MW-13	Water	4/22/02	9:15	4/24/02
195502	MW-14	Water	4/22/02	16:50	4/24/02
195503	MW-15	Water	4/23/02	10:55	4/24/02
195504	MW-16	Water	4/23/02	10:15	4/24/02
195505	MW-25	Water	4/22/02	10:40	4/24/02
195506	MW-27	Water	4/22/02	13:15	4/24/02
195507	MW-28	Water	4/22/02	12:10	4/24/02
195508	MW-26	Water	4/22/02	13:45	4/24/02

This report consists of a total of 2 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample: 195498 - MW-3

Param	Flag	Result	Units
Chloride		448	mg/L

Sample: 195499 - MW-11

Param	Flag	Result	Units
Chloride		848	mg/L

Sample: 195500 - MW-12

Param	Flag	Result	Units
Chloride		1350	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Sample: 195508 - MW-26

Param	Flag	Result	Units
Chloride		751	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Sample: 195501 - MW-13

Param	Flag	Result	Units
Chloride		375	mg/L

Sample: 195502 - MW-14

Param	Flag	Result	Units
Chloride		318	mg/L

Sample: 195503 - MW-15

Param	Flag	Result	Units
Chloride		2500	mg/L

Sample: 195504 - MW-16

Param	Flag	Result	Units
Chloride		1930	mg/L

Sample: 195505 - MW-25

Param	Flag	Result	Units
Chloride		2340	mg/L

Sample: 195506 - MW-27

Param	Flag	Result	Units
Chloride		1050	mg/L

Sample: 195507 - MW-28

Param	Flag	Result	Units
Chloride		1340	mg/L

Sample: 195508 - MW-26

Param	Flag	Result	Units
Chloride		761	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

A02043441

[illegible]

PAGE: 7 OF 7

11/11/81

September Sample Analysis

Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas Plant

Page Number: 1 of 8
Eunice Plant

Summary Report

Ike Tavarez
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: October 8, 2002

Order ID Number: A02092618

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208894	MWD-1	Water	9/23/02	9:45	9/26/02
208895	MW-23	Water	9/23/02	10:20	9/26/02
208896	MWD-2	Water	9/23/02	11:05	9/26/02
208897	MWD-9	Water	9/23/02	12:35	9/26/02
208898	MWD-13	Water	9/23/02	13:45	9/26/02
208899	MWD-3	Water	9/23/02	15:15	9/26/02
208900	MW-22	Water	9/23/02	15:50	9/26/02
208901	MWD-6	Water	9/23/02	17:00	9/26/02
208902	MWD-10	Water	9/23/02	18:20	9/26/02
208903	MWD-14	Water	9/24/02	10:20	9/26/02
208904	MW-19	Water	9/24/02	11:00	9/26/02
208905	TMW-3	Water	9/24/02	12:25	9/26/02
208906	MW-25	Water	9/24/02	13:10	9/26/02
208907	TMW-6	Water	9/24/02	13:45	9/26/02
208908	MW-26	Water	9/24/02	14:30	9/26/02
208909	MW-9	Water	9/24/02	15:05	9/26/02
208910	MW-27	Water	9/25/02	9:15	9/26/02
208911	MW-10	Water	9/25/02	9:50	9/26/02
208912	MW-28	Water	9/25/02	10:30	9/26/02
208913	MW-24	Water	9/25/02	11:09	9/26/02
208914	MW-11	Water	9/25/02	12:30	9/26/02
208915	MW-12	Water	9/25/02	13:10	9/26/02

0 This report consists of a total of 8 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208894 - MWD-1	<0.001	<0.001	<0.001	<0.001	<0.001
208895 - MW-23	<0.001	<0.001	<0.001	<0.001	<0.001
208896 - MWD-2	<0.001	<0.001	<0.001	<0.001	<0.001
208897 - MWD-9	<0.001	<0.001	<0.001	<0.001	<0.001
208898 - MWD-13	<0.001	<0.001	<0.001	<0.001	<0.001
208899 - MWD-3	0.656	<0.005	0.0162	0.0196	0.692
208900 - MW-22	0.730	0.0232	0.0291	0.021	0.803
208901 - MWD-6	0.120	<0.010	<0.010	<0.010	0.120

Continued ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas Plant

Page Number: 2 of 8
Eunice Plant

Continued ...

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208902 - MWD-10	0.441	<0.010	0.244	0.0437	0.729
208903 - MWD-14	2.02	0.163	<0.050	<0.050	2.18
208904 - MW-19	0.437	<0.050	<0.050	<0.050	0.437
208905 - TMW-3	0.0417	<0.020	0.523	<0.020	0.565
208906 - MW-25	2.61	<0.100	0.194	<0.100	2.80
208907 - TMW-6	3.62	<0.050	0.698	0.105	4.42
208908 - MW-26	7.72	<0.050	0.117	<0.050	7.84
208909 - MW-9	6.72	0.309	0.349	0.248	7.63
208910 - MW-27	13.0	0.160	0.220	<0.100	13.4
208911 - MW-10	52.4	0.779	0.467	<0.200	53.6
208912 - MW-28	37.0	25.7	1.87	3.56	68.1
208913 - MW-24	39.7	4.03	0.503	0.944	45.2
208914 - MW-11	41.9	6.92	0.506	0.664	50.0
208915 - MW-12	70.2	33.6	2.94	4.77	112

Sample: 208894 - MWD-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208895 - MW-23

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17400	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		0.00595	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208896 - MWD-2

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L

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Sample 208896 continued ...

Param	Flag	Result	Units
Chloride		22800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.101	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208897 - MWD-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		22800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208898 - MWD-13

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		27100	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208899 - MWD-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		46600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.122	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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This is only a summary. Please, refer to the complete report package for quality control data.

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Eunice Plant

Sample 208899 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208900 - MW-22

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		44200	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.146	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208901 - MWD-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		798	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		3.17	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208902 - MWD-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7800	mg/L
Total Arsenic		0.0649	mg/L
Total Barium		0.678	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

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Eunice Plant**Sample: 208903 - MWD-14**

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		21300	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.243	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208904 - MW-19

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		3010	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.942	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208905 - TMW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1400	mg/L
Total Arsenic		0.0555	mg/L
Total Barium		1.33	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208906 - MW-25

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2040	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.167	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

*Continued on next page ...**This is only a summary. Please, refer to the complete report package for quality control data.*

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Sample 208906 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208907 - TMW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		821	mg/L
Total Arsenic		0.126	mg/L
Total Barium		1.40	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208908 - MW-26

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		667	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.00	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.020	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208909 - MW-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		443	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		14.5	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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Sample: 208910 - MW-27

Param	Flag	Result	Units
Total Mercury		0.00033	mg/L
Chloride		818	mg/L
Total Arsenic		0.215	mg/L
Total Barium		0.226	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208911 - MW-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		382	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		4.34	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208912 - MW-28

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1420	mg/L
Total Arsenic		0.240	mg/L
Total Barium		0.309	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208913 - MW-24

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		99.4	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.72	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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This is only a summary. Please, refer to the complete report package for quality control data.

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786 Texaco South Eunice Gas Plant

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Sample 208913 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208914 - MW-11

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		812	mg/L
Total Arsenic		0.080	mg/L
Total Barium		5.13	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208915 - MW-12

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1510	mg/L
Total Arsenic		0.534	mg/L
Total Barium		1.12	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L



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Analytical and Quality Control Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: October 8, 2002

Order ID Number: A02092618

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208894	MWD-1	Water	9/23/02	9:45	9/26/02
208895	MW-23	Water	9/23/02	10:20	9/26/02
208896	MWD-2	Water	9/23/02	11:05	9/26/02
208897	MWD-9	Water	9/23/02	12:35	9/26/02
208898	MWD-13	Water	9/23/02	13:45	9/26/02
208899	MWD-3	Water	9/23/02	15:15	9/26/02
208900	MW-22	Water	9/23/02	15:50	9/26/02
208901	MWD-6	Water	9/23/02	17:00	9/26/02
208902	MWD-10	Water	9/23/02	18:20	9/26/02
208903	MWD-14	Water	9/24/02	10:20	9/26/02
208904	MW-19	Water	9/24/02	11:00	9/26/02
208905	TMW-3	Water	9/24/02	12:25	9/26/02
208906	MW-25	Water	9/24/02	13:10	9/26/02
208907	TMW-6	Water	9/24/02	13:45	9/26/02
208908	MW-26	Water	9/24/02	14:30	9/26/02
208909	MW-9	Water	9/24/02	15:05	9/26/02
208910	MW-27	Water	9/25/02	9:15	9/26/02
208911	MW-10	Water	9/25/02	9:50	9/26/02
208912	MW-28	Water	9/25/02	10:30	9/26/02
208913	MW-24	Water	9/25/02	11:09	9/26/02
208914	MW-11	Water	9/25/02	12:30	9/26/02
208915	MW-12	Water	9/25/02	13:10	9/26/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 37 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

A handwritten signature in black ink, appearing to be 'BL' with a stylized flourish extending to the right.

Dr. Blair Leftwich, Director

Report Date: October 8, 2002
786

Order Number: A02092618
Texaco South Eunice Gas Plant

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Eunice Plant

Analytical Report

Sample: 208894 - MWD-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0914	mg/L	1	0.10	91	70 - 130
4-BFB		0.0908	mg/L	1	0.10	91	70 - 130

Sample: 208894 - MWD-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208894 - MWD-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		17800	mg/L	1000	1

Sample: 208894 - MWD-1

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23822 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Report Date: October 8, 2002
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Eunice Plant

Sample: 208895 - MW-23

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0805	mg/L	1	0.10	80	70 - 130
4-BFB		0.0802	mg/L	1	0.10	80	70 - 130

Sample: 208895 - MW-23

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208895 - MW-23

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		17400	mg/L	1000	1

Sample: 208895 - MW-23

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23822 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		0.00595	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208896 - MWD-2

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Report Date: October 8, 2002
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Order Number: A02092618
Texaco South Eunice Gas Plant

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Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0935	mg/L	1	0.10	94	70 - 130
4-BFB		0.0904	mg/L	1	0.10	90	70 - 130

Sample: 208896 - MWD-2

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208896 - MWD-2

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		22800	mg/L	1000	1

Sample: 208896 - MWD-2

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.101	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208897 - MWD-9

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001

Continued ...

Report Date: October 8, 2002
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Texaco South Eunice Gas Plant

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Eunice Plant

... Continued Sample: 208897 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0943	mg/L	1	0.10	94	70 - 130
4-BFB		0.0927	mg/L	1	0.10	93	70 - 130

Sample: 208897 - MWD-9

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208897 - MWD-9

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		22800	mg/L	1000	1

Sample: 208897 - MWD-9

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208898 - MWD-13

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001

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... Continued Sample: 208898 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0928	mg/L	1	0.10	93	70 - 130
4-BFB		0.0929	mg/L	1	0.10	93	70 - 130

Sample: 208898 - MWD-13

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208898 - MWD-13

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		27100	mg/L	5000	1

Sample: 208898 - MWD-13

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		<0.100	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208899 - MWD-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.656	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.0162	mg/L	5	0.001
M,P,O-Xylene		0.0196	mg/L	5	0.001

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... Continued Sample: 208899 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Total BTEX		0.692	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0836	mg/L	5	0.10	83	70 - 130
4-BFB		0.0821	mg/L	5	0.10	82	70 - 130

Sample: 208899 - MWD-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208899 - MWD-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23795 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22256 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		46600	mg/L	5000	1

Sample: 208899 - MWD-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.122	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208900 - MW-22

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.730	mg/L	5	0.001
Toluene		0.0232	mg/L	5	0.001
Ethylbenzene		0.0291	mg/L	5	0.001
M,P,O-Xylene		0.021	mg/L	5	0.001
Total BTEX		0.803	mg/L	5	0.001

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0831	mg/L	5	0.10	83	70 - 130
4-BFB		0.0786	mg/L	5	0.10	78	70 - 130

Sample: 208900 - MW-22

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208900 - MW-22

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		44200	mg/L	5000	1

Sample: 208900 - MW-22

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.146	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208901 - MWD-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.120	mg/L	10	0.001
Toluene		<0.010	mg/L	10	0.001
Ethylbenzene		<0.010	mg/L	10	0.001
M,P,O-Xylenc		<0.010	mg/L	10	0.001
Total BTEX		0.120	mg/L	10	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0831	mg/L	10	0.10	83	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		0.0786	mg/L	10	0.10	78	70 - 130

Sample: 208901 - MWD-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208901 - MWD-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		798	mg/L	100	1

Sample: 208901 - MWD-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		3.17	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208902 - MWD-10

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.441	mg/L	10	0.001
Toluene		<0.010	mg/L	10	0.001
Ethylbenzene		0.244	mg/L	10	0.001
M,P,O-Xylene		0.0437	mg/L	10	0.001
Total BTEX		0.729	mg/L	10	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0824	mg/L	10	0.10	82	70 - 130
4-BFB		0.0869	mg/L	10	0.10	86	70 - 130

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Sample: 208902 - MWD-10

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23993 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208902 - MWD-10

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		7800	mg/L	500	1

Sample: 208902 - MWD-10

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0649	mg/L	1	0.05
Total Barium		0.678	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208903 - MWD-14

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		2.02	mg/L	50	0.001
Toluene		0.163	mg/L	50	0.001
Ethylbenzene		<0.050	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		2.18	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0837	mg/L	50	0.10	83	70 - 130
4-BFB		0.0792	mg/L	50	0.10	79	70 - 130

Sample: 208903 - MWD-14

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

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Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208903 - MWD-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		21300	mg/L	1000	1

Sample: 208903 - MWD-14

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.243	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208904 - MW-19

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.437	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		<0.050	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		0.437	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0887	mg/L	50	0.10	88	70 - 130
4-BFB		0.0804	mg/L	50	0.10	80	70 - 130

Sample: 208904 - MW-19

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208904 - MW-19

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		3010	mg/L	500	1

Sample: 208904 - MW-19

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.942	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208905 - TMW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0417	mg/L	20	0.001
Toluene		<0.020	mg/L	20	0.001
Ethylbenzene		0.523	mg/L	20	0.001
M,P,O-Xylene		<0.020	mg/L	20	0.001
Total BTEX		0.565	mg/L	20	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.083	mg/L	20	0.10	83	70 - 130
4-BFB		0.0781	mg/L	20	0.10	78	70 - 130

Sample: 208905 - TMW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208905 - TMW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

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Param	Flag	Result	Units	Dilution	RDL
Chloride		1400	mg/L	100	1

Sample: 208905 - TMW-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23823 Date Analyzed: 9/28/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22268 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0555	mg/L	1	0.05
Total Barium		1.33	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208906 - MW-25

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		2.61	mg/L	100	0.001
Toluene		<0.100	mg/L	100	0.001
Ethylbenzene		0.194	mg/L	100	0.001
M,P,O-Xylene		<0.100	mg/L	100	0.001
Total BTEX		2.80	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0839	mg/L	100	0.10	83	70 - 130
4-BFB		0.079	mg/L	100	0.10	79	70 - 130

Sample: 208906 - MW-25

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208906 - MW-25

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2040	mg/L	500	1

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Sample: 208906 - MW-25

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.167	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208907 - TMW-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		3.62	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		0.698	mg/L	50	0.001
M,P,O-Xylene		0.105	mg/L	50	0.001
Total BTEX		4.42	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0845	mg/L	50	0.10	84	70 - 130
4-BFB		0.0779	mg/L	50	0.10	77	70 - 130

Sample: 208907 - TMW-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208907 - TMW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		821	mg/L	100	1

Sample: 208907 - TMW-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

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Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.126	mg/L	1	0.05
Total Barium		1.40	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208908 - MW-26

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		7.72	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		0.117	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		7.84	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0866	mg/L	50	0.10	86	70 - 130
4-BFB		0.0764	mg/L	50	0.10	76	70 - 130

Sample: 208908 - MW-26

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208908 - MW-26

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		667	mg/L	50	1

Sample: 208908 - MW-26

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		5.00	mg/L	1	0.10

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... Continued Sample: 208908 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		0.020	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208909 - MW-9

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		6.72	mg/L	50	0.001
Toluene		0.309	mg/L	50	0.001
Ethylbenzene		0.349	mg/L	50	0.001
M,P,O-Xylene		0.248	mg/L	50	0.001
Total BTEX		7.63	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0825	mg/L	50	0.10	82	70 - 130
4-BFB		0.0776	mg/L	50	0.10	77	70 - 130

Sample: 208909 - MW-9

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208909 - MW-9

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23794 Date Analyzed: 9/26/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22257 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		443	mg/L	50	1

Sample: 208909 - MW-9

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		14.5	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005

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... Continued Sample: 208909 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208910 - MW-27

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23806 Date Analyzed: 9/26/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22264 Date Prepared: 9/26/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		13.0	mg/L	100	0.001
Toluene		0.160	mg/L	100	0.001
Ethylbenzene		0.220	mg/L	100	0.001
M,P,O-Xylene		<0.100	mg/L	100	0.001
Total BTEX		13.4	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0893	mg/L	100	0.10	89	70 - 130
4-BFB		0.0975	mg/L	100	0.10	97	70 - 130

Sample: 208910 - MW-27

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00033	mg/L	1	0.0002

Sample: 208910 - MW-27

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		818	mg/L	100	1

Sample: 208910 - MW-27

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.215	mg/L	1	0.05
Total Barium		0.226	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01

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... Continued Sample: 208910 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208911 - MW-10

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23860 Date Analyzed: 9/30/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22306 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
MTBE		<0.200	mg/L	200	0.001
Benzene		52.4	mg/L	200	0.001
Toluene		0.779	mg/L	200	0.001
Ethylbenzene		0.467	mg/L	200	0.001
M,P,O-Xylene		<0.200	mg/L	200	0.001
Total BTEX		53.6	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0972	mg/L	200	0.10	97	70 - 130
4-BFB		0.0794	mg/L	200	0.10	79	70 - 130

Sample: 208911 - MW-10

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208911 - MW-10

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		382	mg/L	50	1

Sample: 208911 - MW-10

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		4.34	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01

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... Continued Sample: 208911 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208912 - MW-28

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23860 Date Analyzed: 9/30/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22306 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
MTBE		<0.200	mg/L	200	0.001
Benzene		37.0	mg/L	200	0.001
Toluene		25.7	mg/L	200	0.001
Ethylbenzene		1.87	mg/L	200	0.001
M,P,O-Xylene		3.56	mg/L	50	0.001
Total BTEX		68.1	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0896	mg/L	200	0.10	89	70 - 130
4-BFB		0.0809	mg/L	200	0.10	80	70 - 130

Sample: 208912 - MW-28

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23994 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22419 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208912 - MW-28

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1420	mg/L	500	1

Sample: 208912 - MW-28

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.240	mg/L	1	0.05
Total Barium		0.309	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01

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... Continued Sample: 208912 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208913 - MW-24

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23841 Date Analyzed: 9/27/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22284 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		39.7	mg/L	200	0.001
Toluene		4.03	mg/L	200	0.001
Ethylbenzene		0.503	mg/L	200	0.001
M,P,O-Xylene		0.944	mg/L	200	0.001
Total BTEX		45.2	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0926	mg/L	200	0.10	92	70 - 130
4-BFB		0.0788	mg/L	200	0.10	78	70 - 130

Sample: 208913 - MW-24

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23995 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22420 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208913 - MW-24

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		99.4	mg/L	10	1

Sample: 208913 - MW-24

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		5.72	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01

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... Continued Sample: 208913 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208914 - MW-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23841 Date Analyzed: 9/27/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22284 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		41.9	mg/L	200	0.001
Toluene		6.92	mg/L	200	0.001
Ethylbenzene		0.506	mg/L	200	0.001
M,P,O-Xylene		0.664	mg/L	200	0.001
Total BTEX		50.0	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.089	mg/L	200	0.10	89	70 - 130
4-BFB		0.0776	mg/L	200	0.10	77	70 - 130

Sample: 208914 - MW-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23995 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22420 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208914 - MW-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		812	mg/L	100	1

Sample: 208914 - MW-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.080	mg/L	1	0.05
Total Barium		5.13	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05

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... Continued Sample: 208914 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208915 - MW-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23841 Date Analyzed: 9/27/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22284 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		70.2	mg/L	200	0.001
Toluene		33.6	mg/L	200	0.001
Ethylbenzene		2.94	mg/L	200	0.001
M,P,O-Xylene		4.77	mg/L	200	0.001
Total BTEX		112	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0993	mg/L	200	0.10	99	70 - 130
4-BFB		0.0801	mg/L	200	0.10	80	70 - 130

Sample: 208915 - MW-12

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23995 Date Analyzed: 10/7/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22420 Date Prepared: 10/7/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208915 - MW-12

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23830 Date Analyzed: 9/27/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22276 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1510	mg/L	100	1

Sample: 208915 - MW-12

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23904 Date Analyzed: 10/2/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22292 Date Prepared: 9/30/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.534	mg/L	1	0.05
Total Barium		1.12	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Quality Control Report Method Blank

Method Blank QCBatch: QC23794

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC23795

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC23806

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0883	mg/L	1	0.10	88	70 - 130
4-BFB		0.0805	mg/L	1	0.10	80	70 - 130

Method Blank QCBatch: QC23822

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23823

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23830

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC23841

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0931	mg/L	1	0.10	93	70 - 130
4-BFB		0.0756	mg/L	1	0.10	76	70 - 130

Method Blank QCBatch: QC23860

Param	Flag	Results	Units	Reporting Limit
MTBE		<0.001	mg/L	0.001
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	1	0.0481	mg/L	1	0.10	48	70 - 130

Continued ...

¹Low surrogate recovery due to prep. ICV, CCV show the method to be in control.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB	²	0.0411	mg/L	1	0.10	41	70 - 130

Method Blank QCBatch: QC23904

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23993

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC23994

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC23995

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC23794

²Low surrogate recovery due to prep. ICV, CCV show the method to be in control.

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.64	11.70	mg/L	1	12.50	<1.0	93	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23795

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.59	11.65	mg/L	1	12.50	<1.0	92	0	90 - 110	20
Sulfate	12.23	12.46	mg/L	1	12.50	<1.0	97	1	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23806

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0924	0.0911	mg/L	1	0.10	<0.001	92	1	70 - 130	20
Benzene	0.0942	0.0934	mg/L	1	0.10	<0.001	94	1	70 - 130	20
Toluene	0.0944	0.0949	mg/L	1	0.10	<0.001	94	0	70 - 130	20
Ethylbenzene	0.0976	0.0958	mg/L	1	0.10	<0.001	98	2	70 - 130	20
M,P,O-Xylene	0.293	0.294	mg/L	1	0.30	<0.001	98	0	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0882	0.0903	mg/L	1	0.10	88	90	70 - 130
4-BFB	0.0933	0.0906	mg/L	1	0.10	93	91	70 - 130

Laboratory Control Spikes

QCBatch: QC23822

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.624	0.621	mg/L	1	0.50	<0.050	125	0	75 - 125	20
Total Barium	1.03	1.03	mg/L	1	1	<0.100	103	0	75 - 125	20
Total Cadmium	0.264	0.258	mg/L	1	0.25	<0.005	106	2	75 - 125	20
Total Chromium	0.104	0.103	mg/L	1	0.10	<0.010	104	1	75 - 125	20
Total Lead	0.513	0.500	mg/L	1	0.50	<0.010	103	2	75 - 125	20
Total Selenium	0.433	0.434	mg/L	1	0.50	<0.050	87	0	75 - 125	20
Total Silver	0.126	0.124	mg/L	1	0.12	<0.0125	101	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23823

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.581	0.582	mg/L	1	0.50	<0.050	116	0	75 - 125	20
Total Barium	1.03	1.03	mg/L	1	1	<0.100	103	0	75 - 125	20
Total Cadmium	0.259	0.258	mg/L	1	0.25	<0.005	104	0	75 - 125	20
Total Chromium	0.103	0.102	mg/L	1	0.10	<0.010	103	1	75 - 125	20
Total Lead	0.499	0.508	mg/L	1	0.50	<0.010	100	2	75 - 125	20
Total Selenium	0.413	0.421	mg/L	1	0.50	<0.050	83	2	75 - 125	20
Total Silver	0.126	0.125	mg/L	1	0.12	<0.0125	101	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23830

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.47	11.43	mg/L	1	12.50	<1.0	91	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23841

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.094	0.098	mg/L	1	0.10	<0.001	94	3	70 - 130	20
Benzene	0.0945	0.101	mg/L	1	0.10	<0.001	94	6	70 - 130	20
Toluene	0.0941	0.0978	mg/L	1	0.10	<0.001	94	3	70 - 130	20
Ethylbenzene	0.0922	0.096	mg/L	1	0.10	<0.001	92	3	70 - 130	20
M,P,O-Xylene	0.28	0.290	mg/L	1	0.30	<0.001	93	1	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0885	0.0948	mg/L	1	0.10	88	95	70 - 130
4-BFB	0.0882	0.0883	mg/L	1	0.10	88	88	70 - 130

Laboratory Control Spikes

QCBatch: QC23860

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0979	0.0926	mg/L	1	0.10	<0.001	98	6	70 - 130	20
Benzene	0.0983	0.0945	mg/L	1	0.10	<0.001	98	4	70 - 130	20
Toluene	0.0944	0.0931	mg/L	1	0.10	<0.001	94	1	70 - 130	20
Ethylbenzene	0.0913	0.0928	mg/L	1	0.10	<0.001	91	2	70 - 130	20
M,P,O-Xylene	0.265	0.276	mg/L	1	0.30	<0.001	88	4	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.103	0.0992	mg/L	1	0.10	103	99	70 - 130
4-BFB	0.090	0.0908	mg/L	1	0.10	90	91	70 - 130

Laboratory Control Spikes

QCBatch: QC23904

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.564	0.561	mg/L	1	0.50	<0.050	113	0	75 - 125	20
Total Barium	0.992	0.998	mg/L	1	1	<0.100	99	1	75 - 125	20
Total Cadmium	0.255	0.253	mg/L	1	0.25	<0.005	102	1	75 - 125	20
Total Chromium	0.0999	0.101	mg/L	1	0.10	<0.010	100	1	75 - 125	20
Total Lead	0.498	0.501	mg/L	1	0.50	<0.010	98	1	75 - 125	20
Total Selenium	0.418	0.421	mg/L	1	0.50	<0.050	84	1	75 - 125	20
Total Silver	0.122	0.122	mg/L	1	0.12	<0.0125	98	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23993

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00105	0.00106	mg/L	1	0.001	<0.0002	105	0	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23994

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00105	0.00106	mg/L	1	0.001	<0.0002	105	0	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23995

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00105	0.00106	mg/L	1	0.001	<0.0002	105	0	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC23794

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	107250	107620	mg/L	1	62500	44200	100	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23795

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	109800	108900	mg/L	1	62500	46600	101	1	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23822

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.529	0.517	mg/L	1	0.50	<0.050	106	2	75 - 125	20
Total Barium	0.913	0.902	mg/L	1	1	<0.100	91	1	75 - 125	20
Total Cadmium	0.191	0.188	mg/L	1	0.25	<0.005	76	2	75 - 125	20
Total Chromium	0.083	0.0805	mg/L	1	0.10	<0.010	83	3	75 - 125	20
Total Lead	0.381	0.384	mg/L	1	0.50	<0.010	76	1	75 - 125	20
Total Selenium	0.376	0.375	mg/L	1	0.50	<0.050	75	0	75 - 125	20
Total Silver	0.129	0.127	mg/L	1	0.12	<0.0125	103	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23823

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.486	0.475	mg/L	1	0.50	<0.050	97	2	75 - 125	20
Total Barium	0.903	0.912	mg/L	1	1	0.101	90	1	75 - 125	20
Total Cadmium	³ 0.148	0.165	mg/L	1	0.25	<0.005	59	11	75 - 125	20
Total Chromium	0.0784	0.078	mg/L	1	0.10	<0.010	78	0	75 - 125	20
Total Lead	⁴ 0.318	0.356	mg/L	1	0.50	<0.010	63	11	75 - 125	20
Total Selenium	⁵ 0.354	0.343	mg/L	1	0.50	<0.050	70	3	75 - 125	20
Total Silver	0.128	0.143	mg/L	1	0.12	<0.0125	102	11	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23830

³Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

⁴Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

⁵Matrix spike recovery invalid due to matrix effects. LCS demonstrates process under control.

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	7367	7364	mg/L	1	6250	1420	95	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23904

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.584	0.581	mg/L	1	0.50	<0.050	117	0	75 - 125	20
Total Barium	1.15	1.16	mg/L	1	1	0.167	98	1	75 - 125	20
Total Cadmium	0.228	0.226	mg/L	1	0.25	<0.005	91	1	75 - 125	20
Total Chromium	0.0932	0.0935	mg/L	1	0.10	<0.010	93	0	75 - 125	20
Total Lead	0.528	0.518	mg/L	1	0.50	<0.010	106	2	75 - 125	20
Total Selenium	0.396	0.393	mg/L	1	0.50	<0.050	79	1	75 - 125	20
Total Silver	0.131	0.131	mg/L	1	0.12	<0.0125	105	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23993

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00104	0.00104	mg/L	1	0.001	<0.0002	104	0	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23994

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00072	0.00072	mg/L	1	0.001	<0.0002	72	0	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23995

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	⁶ 0.00033	⁷ 0.00033	mg/L	1	0.001	<0.0002	33	0	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁶MS RECOVERY INVALID DUE TO MATRIX EFFECT

⁷MS RECOVERY INVALID DUE TO MATRIX EFFECT

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC23794

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.66	93	90 - 110	9/26/02

ICV (1) QCBatch: QC23794

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.64	93	90 - 110	9/26/02

CCV (1) QCBatch: QC23795

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.64	93	90 - 110	9/26/02
Sulfate		mg/L	12.50	12.31	98	90 - 110	9/26/02

ICV (1) QCBatch: QC23795

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.64	93	90 - 110	9/26/02
Sulfate		mg/L	12.50	12.24	97	90 - 110	9/26/02

CCV (1) QCBatch: QC23806

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0963	96	85 - 115	9/26/02
Benzene		mg/L	0.10	0.0946	95	85 - 115	9/26/02
Toluene		mg/L	0.10	0.0953	95	85 - 115	9/26/02
Ethylbenzene		mg/L	0.10	0.0973	97	85 - 115	9/26/02
M,P,O-Xylene		mg/L	0.30	0.295	98	85 - 115	9/26/02

CCV (2) QCBatch: QC23806

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0916	91	85 - 115	9/26/02
Benzene		mg/L	0.10	0.0915	91	85 - 115	9/26/02
Toluene		mg/L	0.10	0.0922	92	85 - 115	9/26/02
Ethylbenzene		mg/L	0.10	0.0925	92	85 - 115	9/26/02
M,P,O-Xylene		mg/L	0.30	0.280	93	85 - 115	9/26/02

ICV (1) QCBatch: QC23806

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0931	93	85 - 115	9/26/02
Benzene		mg/L	0.10	0.0917	92	85 - 115	9/26/02
Toluene		mg/L	0.10	0.0937	94	85 - 115	9/26/02
Ethylbenzene		mg/L	0.10	0.0961	96	85 - 115	9/26/02
M,P,O-Xylene		mg/L	0.30	0.292	97	85 - 115	9/26/02

CCV (1) QCBatch: QC23822

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.08	108	90 - 110	9/28/02
Total Barium		mg/L	2	2.07	104	90 - 110	9/28/02
Total Cadmium		mg/L	0.50	0.509	102	90 - 110	9/28/02
Total Chromium		mg/L	0.20	0.207	104	90 - 110	9/28/02
Total Lead		mg/L	1	1.04	104	90 - 110	9/28/02
Total Selenium		mg/L	1	1.06	106	90 - 110	9/28/02
Total Silver		mg/L	0.25	0.262	105	90 - 110	9/28/02

ICV (1) QCBatch: QC23822

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.989	99	95 - 105	9/28/02
Total Barium		mg/L	2	1.98	99	95 - 105	9/28/02
Total Cadmium		mg/L	0.50	0.491	98	95 - 105	9/28/02
Total Chromium		mg/L	0.20	0.198	99	95 - 105	9/28/02
Total Lead		mg/L	1	0.992	99	95 - 105	9/28/02
Total Selenium		mg/L	1	1.01	101	95 - 105	9/28/02
Total Silver		mg/L	0.25	0.245	98	95 - 105	9/28/02

CCV (1) QCBatch: QC23823

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.978	98	90 - 110	9/28/02
Total Barium		mg/L	2	1.94	97	90 - 110	9/28/02
Total Cadmium		mg/L	0.50	0.483	97	90 - 110	9/28/02
Total Chromium		mg/L	0.20	0.194	97	90 - 110	9/28/02
Total Lead		mg/L	1	0.971	97	90 - 110	9/28/02
Total Selenium		mg/L	1	0.991	99	90 - 110	9/28/02
Total Silver		mg/L	0.25	0.242	97	90 - 110	9/28/02

ICV (1) QCBatch: QC23823

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.987	99	95 - 105	9/28/02
Total Barium		mg/L	2	1.96	98	95 - 105	9/28/02
Total Cadmium		mg/L	0.50	0.491	98	95 - 105	9/28/02
Total Chromium		mg/L	0.20	0.193	96	95 - 105	9/28/02
Total Lead		mg/L	1	0.979	98	95 - 105	9/28/02
Total Selenium		mg/L	1	0.977	98	95 - 105	9/28/02
Total Silver		mg/L	0.25	0.246	98	95 - 105	9/28/02

CCV (1) QCBatch: QC23830

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.42	91	90 - 110	9/27/02

ICV (1) QCBatch: QC23830

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.53	92	90 - 110	9/27/02

CCV (1) QCBatch: QC23841

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0927	92	85 - 115	9/27/02

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.0969	96	85 - 115	9/27/02
Toluene		mg/L	0.10	0.0934	93	85 - 115	9/27/02
Ethylbenzene		mg/L	0.10	0.0926	93	85 - 115	9/27/02
M,P,O-Xylene		mg/L	0.30	0.281	93	85 - 115	9/27/02

CCV (2) QCBatch: QC23841

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0936	93	85 - 115	9/27/02
Benzene		mg/L	0.10	0.0954	95	85 - 115	9/27/02
Toluene		mg/L	0.10	0.0935	93	85 - 115	9/27/02
Ethylbenzene		mg/L	0.10	0.0934	93	85 - 115	9/27/02
M,P,O-Xylene		mg/L	0.30	0.283	94	85 - 115	9/27/02

ICV (1) QCBatch: QC23841

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.101	101	85 - 115	9/27/02
Benzene		mg/L	0.10	0.104	104	85 - 115	9/27/02
Toluene		mg/L	0.10	0.0997	100	85 - 115	9/27/02
Ethylbenzene		mg/L	0.10	0.0981	98	85 - 115	9/27/02
M,P,O-Xylene		mg/L	0.30	0.303	101	85 - 115	9/27/02

CCV (1) QCBatch: QC23860

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.093	93	85 - 115	9/30/02
Benzene		mg/L	0.10	0.0936	94	85 - 115	9/30/02
Toluene		mg/L	0.10	0.0911	91	85 - 115	9/30/02
Ethylbenzene		mg/L	0.10	0.0909	91	85 - 115	9/30/02
M,P,O-Xylene		mg/L	0.30	0.271	90	85 - 115	9/30/02

CCV (2) QCBatch: QC23860

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0908	90	85 - 115	9/30/02
Benzene		mg/L	0.10	0.0894	89	85 - 115	9/30/02
Toluene		mg/L	0.10	0.0886	88	85 - 115	9/30/02
Ethylbenzene		mg/L	0.10	0.0884	88	85 - 115	9/30/02
M,P,O-Xylene		mg/L	0.30	0.265	88	85 - 115	9/30/02

ICV (1) QCBatch: QC23860

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0866	87	85 - 115	9/30/02
Benzene		mg/L	0.10	0.0854	85	85 - 115	9/30/02
Toluene		mg/L	0.10	0.0853	85	85 - 115	9/30/02
Ethylbenzene		mg/L	0.10	0.0867	87	85 - 115	9/30/02
M,P,O-Xylene		mg/L	0.30	0.263	88	85 - 115	9/30/02

CCV (1) QCBatch: QC23904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.950	95	90 - 110	10/2/02
Total Barium		mg/L	2	1.92	96	90 - 110	10/2/02
Total Cadmium		mg/L	0.50	0.490	98	90 - 110	10/2/02
Total Chromium		mg/L	0.20	0.192	96	90 - 110	10/2/02
Total Lead		mg/L	1	0.950	94	90 - 110	10/2/02
Total Selenium		mg/L	1	0.929	93	90 - 110	10/2/02
Total Silver		mg/L	0.25	0.240	96	90 - 110	10/2/02

ICV (1) QCBatch: QC23904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.975	98	95 - 105	10/2/02
Total Barium		mg/L	2	1.92	96	95 - 105	10/2/02
Total Cadmium		mg/L	0.50	0.482	96	95 - 105	10/2/02
Total Chromium		mg/L	0.20	0.195	98	95 - 105	10/2/02
Total Lead		mg/L	1	0.955	94	95 - 105	10/2/02
Total Selenium		mg/L	1	0.985	98	95 - 105	10/2/02
Total Silver		mg/L	0.25	0.240	96	95 - 105	10/2/02

CCV (1) QCBatch: QC23993

Report Date: October 8, 2002
786

Order Number: A02092618
Texaco South Eunice Gas Plant

Page Number: 37 of 37
Eunice Plant

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00101	101	80 - 120	10/7/02

ICV (1) QCBatch: QC23993

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00106	106	80 - 120	10/7/02

CCV (1) QCBatch: QC23994

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00101	101	80 - 120	10/7/02

ICV (1) QCBatch: QC23994

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00106	106	80 - 120	10/7/02

CCV (1) QCBatch: QC23995

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00101	101	80 - 120	10/7/02

ICV (1) QCBatch: QC23995

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00106	106	80 - 120	10/7/02

208894 715

A02092618

Analysis Request and Chain of Custody Record										PAGE: 1 OF: 3																									
HIGHLANDER ENVIRONMENTAL CORP.										ANALYSIS REQUEST (Circle or Specify Method No.)																									
1910 N. Big Spring St. Midland, Texas 79705																																			
(915) 682-4559										Fax (915) 682-3946																									
CLIENT NAME: Chevron Texaco					SITE MANAGER: Ike Tovar																														
PROJECT NO.: 786			PROJECT NAME: Chevron Texaco / Eocene South Plant																																
			Lea County, NM																																
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	BTX 8020/802	MTBE 8020/802	TPH 418.1	8015 MOD.	TX1006	PAH 8270	PCPA Metals Ag As Ba Cd Cr Pb Hg Se	TCPP Metals Ag As Ba Cd Cr Pb Hg Se	TCPP Volatiles	TCPP Semi Volatiles	RCI	GC/MS Vol. 8240/8280/824	GC/MS Semi Vol. 8270/825	PCB's 8080/808	Pest. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Chloride			
208894	9/23/02	9:45	W			MWD-1	4	Y	X	X	X		X						X																X
95	9/23/02	10:20	W			MW-23	4	Y	X	X	X		X						X																X
96	9/23/02	11:05	W			MWD-2	4	Y	X	X	X		X						X																X
97	9/23/02	12:35	W			MWD-9	4	Y	X	X	X		X						X																X
98	9/23/02	1:45	W			MWD-13	4	Y	X	X	X		X						X																X
99	9/23/02	3:15	W			MWD-3	4	Y	X	X	X		X						X																X
900	9/23/02	3:50	W			MW-22	4	Y	X	X	X		X						X																X
901	9/23/02	5:00	W			MWD-6	4	Y	X	X	X		X						X																X
902	9/23/02	6:20	W			MWD-10	4	Y	X	X	X		X						X																X
903	9/24/02	10:20	W			MWD-14	4	Y	X	X	X		X						X																X

RELINQUISHED BY: (Signature)	Date: 9/25/02	RECEIVED BY: (Signature)	Date: 9/25/02	SAMPLED BY: (Print & Sign)	Date: 9/25/02
RELINQUISHED BY: (Signature)	Date: 9/25/02	RECEIVED BY: (Signature)	Date: 9/26/02	SAMPLE SHIPPED BY: (Circle)	Date: 9/26/02
RELINQUISHED BY: (Signature)	Date: 9/25/02	RECEIVED BY: (Signature)	Date: 9/26/02	FEDEX	Time: 10:00
				HAND DELIVERED	OTHER:
RECEIVING LABORATORY: State				HIGHLANDER CONTACT PERSON:	
ADDRESS: Jutrock				Ike Tovar	
CITY: STATE: ZIP:				Results by:	
CONTACT: PHONE: DATE: TIME:				RUSH Charges	
				Authorized:	
				Yes No	

SAMPLE CONDITION WHEN RECEIVED:	MATRIX: 2-PAH	A-Air	SD-Solid	REMARKS:
	S-Soil	SL-Sludge	O-Other	

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

40 samples - HB

10/12/02

AD2092618

Analysis Request and Chain of Custody Record										PAGE: 2 OF: 3																																																	
HIGHLANDER ENVIRONMENTAL CORP. 1910 N. Big Spring St. Midland, Texas 79705 (915) 682-4559 Fax (915) 682-3946										ANALYSIS REQUEST (Circle or Specify Method No.)																																																	
CLIENT NAME: <u>Chevron Texaco</u>					SITE MANAGER: <u>Ike Tuvarez</u>					<table border="1" style="width:100%; font-size: 0.8em;"> <tr> <td>BTX 8020/802</td> <td>MTBE 8020/808</td> <td>TPH 418.1</td> <td>8015 MOD.</td> <td>TEOOS</td> <td>As</td> <td>Ba</td> <td>Cd</td> <td>Cr</td> <td>Pb</td> <td>Hg</td> <td>Se</td> </tr> <tr> <td>PAH 8270</td> <td>PCB 8060/808</td> <td>PCP Volatiles</td> <td>PCP Semi Volatiles</td> <td>RCI</td> <td>GC/MS Vol. 8240/8260/824</td> <td>GC/MS Semi. Vol. 8270/825</td> <td>PCB 8060/808</td> <td>Post. 808/808</td> <td>BOD, TSS, pH, TDS, Chloride</td> <td>Gamma Spec.</td> <td>Alpha Beta (Air)</td> </tr> <tr> <td>RCRA Metals</td> <td>Ag</td> <td>As</td> <td>Ba</td> <td>Cd</td> <td>Cr</td> <td>Pb</td> <td>Hg</td> <td>Se</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PLM (Asbestos)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		BTX 8020/802	MTBE 8020/808	TPH 418.1	8015 MOD.	TEOOS	As	Ba	Cd	Cr	Pb	Hg	Se	PAH 8270	PCB 8060/808	PCP Volatiles	PCP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/824	GC/MS Semi. Vol. 8270/825	PCB 8060/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	RCRA Metals	Ag	As	Ba	Cd	Cr	Pb	Hg	Se				PLM (Asbestos)											
BTX 8020/802	MTBE 8020/808	TPH 418.1	8015 MOD.	TEOOS	As	Ba	Cd	Cr	Pb			Hg	Se																																														
PAH 8270	PCB 8060/808	PCP Volatiles	PCP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/824	GC/MS Semi. Vol. 8270/825	PCB 8060/808	Post. 808/808	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)																																																
RCRA Metals	Ag	As	Ba	Cd	Cr	Pb	Hg	Se																																																			
PLM (Asbestos)																																																											
PROJECT NO.: <u>786</u>		PROJECT NAME: <u>Chevron Texaco / Eunice South Plant</u>			NUMBER OF CONTAINERS		PRESERVATIVE METHOD																																																				
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNOS	ICE	NONE																																															
208904	9/24/02	11:00	W			MW-19	4	Y	X	X	X																																																
905	9/24/02	12:25	W			TMW-3	4	Y	X	X	X																																																
906	9/24/02	1:10	W			MW-25	4	Y	X	X	X																																																
907	9/24/02	1:45	W			TMW-6	4	Y	X	X	X																																																
908	9/24/02	2:30	W			MW-26	4	Y	X	X	X																																																
909	9/24/02	3:05	W			MW-9	4	Y	X	X	X																																																
910	9/25/02	9:15	W			MW-27	4	Y	X	X	X																																																
911	9/25/02	9:50	W			MW-10	4	Y	X	X	X																																																
912	9/25/02	10:30	W			MW-28	4	Y	X	X	X																																																
913	9/25/02	11:09	W			MW-24	4	Y	X	X	X																																																

RELINQUISHED BY: (Signature) <u>[Signature]</u>	Date: <u>9/25/02</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	Date: <u>9/25/02</u>	SAMPLED BY: (Print & Sign) <u>[Signature]</u>	Date: <u>9/25/02</u>
RELINQUISHED BY: (Signature) <u>[Signature]</u>	Date: <u>9/23/02</u>	RECEIVED BY: (Signature) <u>[Signature]</u>	Date: <u>9/26/02</u>	SAMPLE SHIPPED BY: (Circle) <u>BUS</u>	Date: <u>9/26/02</u>
RELINQUISHED BY: (Signature) _____	Date: _____	RECEIVED BY: (Signature) _____	Date: _____	FEDEX _____	Date: _____
RECEIVING LABORATORY: <u>Trace</u>	ADDRESS: _____	RECEIVED BY: (Signature) _____	DATE: _____	HAND DELIVERED _____	OTHER: _____
CITY: <u>Subrock</u>	STATE: _____	ZIP: _____	TIME: _____	HIGHLANDER CONTACT PERSON: <u>Ike Tuvarez</u>	Results by: _____
CONTACT: _____	PHONE: _____	DATE: _____	TIME: _____		RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:	MATRIX: <u>E-Tate</u>	A-Air	SD-Solid	REMARKS:
	S-Soil	SL-Sludge	O-Other	

1100 N. Main St - HS

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705

(915) 882-4559

Fax (915) 882-3948

CLIENT NAME:
Chevron Texaco

SITE MANAGER:
Ike Tavaraz

PROJECT NO.: *786*

PROJECT NAME:
Chevron Texaco / Eunice South Plant
Lea County, NM
SAMPLE IDENTIFICATION

LAB I.D. NUMBER
DATE
TIME
MATRIX
COMP.
GRAB

208914 *9/25/02* *12:30* *✓* *MW-11*

915 *9/25/02* *1:10* *✓* *MW-12*

NUMBER OF CONTAINERS
FILTERED (Y/N)
PRESERVATIVE METHOD
HCL
HNO3
ICE
NONE

4 *Y* *X* *X* *X*
4 *Y* *X* *X* *X*

HTX 8020/803																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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RELINQUISHED BY: (Signature) *[Signature]* Date: *9/25/02* Time: *1700*
RELINQUISHED BY: (Signature) *[Signature]* Date: *9/25/02* Time: *1830*
RELINQUISHED BY: (Signature) *[Signature]* Date: Time:

RECEIVED BY: (Signature) *[Signature]* Date: *9/25/02* Time: *1700*
RECEIVED BY: (Signature) *[Signature]* Date: *9/26/02* Time:
RECEIVED BY: (Signature) *[Signature]* Date: Time:

SAMPLED BY: (Print & Sign) *[Signature]* Date: *9/25/02* Time: *4:00*
SAMPLE SHIPPED BY: (Signature) *[Signature]* Date: Time:
FEDEX ☒ UPS ☒ AIRBILL ☒ OTHER: *[Signature]*

RECEIVING LABORATORY: *Subbock*
ADDRESS: STATE: ZIP:
CITY: PHONE: DATE: TIME:

RECEIVED BY: (Signature)
DATE: TIME:

HIGHLANDER CONTACT PERSON:

Ike Tavaraz

Results by:
RUSH Charges Authorized:
Yes No

SAMPLE CONDITION WHEN RECEIVED: MATRIX: *3-Sol* A-Air SD-Solid
B-Sol SL-Sludge O-Other

REMARKS:

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas Plant

Page Number: 1 of 6
Eunice Plant

Summary Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: September 30, 2002

Order ID Number: A02092023

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208441	MW-16	Water	9/16/02	11:15	9/20/02
208442	MW-15	Water	9/16/02	12:00	9/20/02
208443	MW-14	Water	9/16/02	13:40	9/20/02
208444	MW-13	Water	9/16/02	14:25	9/20/02
208445	MW-3	Water	9/16/02	15:00	9/20/02
208446	MW-8	Water	9/16/02	15:50	9/20/02
208447	MW-6	Water	9/17/02	20:45	9/20/02
208448	MW-18	Water	9/17/02	9:30	9/20/02
208449	MWD-4	Water	9/17/02	11:25	9/20/02
208450	MWD-7	Water	9/17/02	12:30	9/20/02
208451	MWD-11	Water	9/17/02	14:00	9/20/02
208452	TMW-1	Water	9/17/02	2:40	9/20/02
208453	MW-17	Water	9/17/02	3:50	9/20/02
208454	MW-4	Water	9/17/02	4:30	9/20/02
208455	MWD-12	Water	9/18/02	9:20	9/20/02
208456	MW-7	Water	9/18/02	10:50	9/20/02
208457	MWD-8	Water	9/18/02	11:50	9/20/02

0 This report consists of a total of 6 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208441 - MW-16	<0.001	<0.001	<0.001	<0.001	<0.001
208442 - MW-15	0.0054	<0.001	<0.001	<0.001	0.0054
208443 - MW-14	<0.001	<0.001	<0.001	<0.001	<0.001
208444 - MW-13	0.0254	<0.005	<0.005	<0.005	0.0254
208445 - MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
208446 - MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
208447 - MW-6	0.0066	<0.001	<0.001	<0.001	0.0066
208448 - MW-18	<0.005	<0.005	<0.005	<0.005	<0.005
208449 - MWD-4	0.0048	<0.001	<0.001	<0.001	0.0048
208450 - MWD-7	<0.001	<0.001	<0.001	<0.001	<0.001
208451 - MWD-11	<0.001	<0.001	<0.001	<0.001	<0.001
208452 - TMW-1	0.0367	<0.005	<0.005	<0.005	0.0367
208453 - MW-17	<0.001	<0.001	<0.001	<0.001	<0.001

Continued ...

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas Plant

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Eunice Plant

Continued . . .

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208454 - MW-4	0.0213	<0.001	<0.001	<0.001	0.0213
208455 - MWD-12	0.973	<0.050	<0.050	<0.050	0.973
208456 - MW-7	0.0067	<0.001	<0.001	<0.001	0.0067
208457 - MWD-8	<0.001	<0.001	<0.001	<0.001	<0.001

Sample: 208441 - MW-16

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1840	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.113	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.185	mg/L
Total Lead		<0.010	mg/L
Total Selenium		0.0502	mg/L
Total Silver		<0.0125	mg/L

Sample: 208442 - MW-15

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2310	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.105	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208443 - MW-14

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		319	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.131	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas PlantPage Number: 3 of 6
Eunice Plant**Sample: 208444 - MW-13**

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		328	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		2.29	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208445 - MW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		412	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.193	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208446 - MW-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1790	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.187	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208447 - MW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		11010	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.152	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

*Continued on next page ...**This is only a summary. Please, refer to the complete report package for quality control data.*

Report Date: September 30, 2002 Order Number: A02092023
 786 Texaco South Eunice Gas Plant

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 Eunice Plant

Sample 208447 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208448 - MW-18

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		4920	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.163	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208449 - MWD-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		516	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.722	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208450 - MWD-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7620	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.106	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

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 Eunice Plant

Sample: 208451 - MWD-11

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2700	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.150	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208452 - TMW-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		916	mg/L
Total Arsenic		0.0562	mg/L
Total Barium		0.998	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208453 - MW-17

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		5750	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.105	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208454 - MW-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17300	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.144	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas Plant

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Eunice Plant

Sample 208454 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208455 - MWD-12

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		5300	mg/L
Total Arsenic		0.0602	mg/L
Total Barium		0.963	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208456 - MW-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		719	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		1.04	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208457 - MWD-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		12600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.142	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.0136	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

This is only a summary. Please, refer to the complete report package for quality control data.

TRACE ANALYSIS, INC.

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Analytical and Quality Control Report

Ike Tavaréz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: September 30, 2002

Order ID Number: A02092023

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208441	MW-16	Water	9/16/02	11:15	9/20/02
208442	MW-15	Water	9/16/02	12:00	9/20/02
208443	MW-14	Water	9/16/02	13:40	9/20/02
208444	MW-13	Water	9/16/02	14:25	9/20/02
208445	MW-3	Water	9/16/02	15:00	9/20/02
208446	MW-8	Water	9/16/02	15:50	9/20/02
208447	MW-6	Water	9/17/02	20:45	9/20/02
208448	MW-18	Water	9/17/02	9:30	9/20/02
208449	MWD-4	Water	9/17/02	11:25	9/20/02
208450	MWD-7	Water	9/17/02	12:30	9/20/02
208451	MWD-11	Water	9/17/02	14:00	9/20/02
208452	TMW-1	Water	9/17/02	2:40	9/20/02
208453	MW-17	Water	9/17/02	3:50	9/20/02
208454	MW-4	Water	9/17/02	4:30	9/20/02
208455	MWD-12	Water	9/18/02	9:20	9/20/02
208456	MW-7	Water	9/18/02	10:50	9/20/02
208457	MWD-8	Water	9/18/02	11:50	9/20/02

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed. Note: the RDL is equal to MQL for all organic analytes including TPH.

The test results contained within this report meet all requirements of LAC 33:I unless otherwise noted.

This report consists of a total of 30 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Note: Samples will be disposed of 30 days from the report date unless the lab is contacted before the 30 days has past.

A handwritten signature in black ink, appearing to be 'BL' followed by a long horizontal stroke.

Dr. Blair Leftwich, Director

Report Date: September 30, 2002
786

Order Number: A02092023
Texaco South Eunice Gas Plant

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Eunice Plant

Analytical Report

Sample: 208441 - MW-16

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0966	mg/L	1	0.10	97	70 - 130
4-BFB		0.0791	mg/L	1	0.10	79	70 - 130

Sample: 208441 - MW-16

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208441 - MW-16

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1840	mg/L	100	1

Sample: 208441 - MW-16

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.113	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		0.185	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		0.0502	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Report Date: September 30, 2002
786

Order Number: A02092023
Texaco South Eunice Gas Plant

Page Number: 4 of 30
Eunice Plant

Sample: 208442 - MW-15

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0054	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0054	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.113	mg/L	1	0.10	113	70 - 130
4-BFB		0.0857	mg/L	1	0.10	86	70 - 130

Sample: 208442 - MW-15

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208442 - MW-15

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2310	mg/L	100	1

Sample: 208442 - MW-15

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.105	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208443 - MW-14

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.102	mg/L	1	0.10	102	70 - 130
4-BFB		0.0803	mg/L	1	0.10	80	70 - 130

Sample: 208443 - MW-14

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208443 - MW-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		319	mg/L	50	1

Sample: 208443 - MW-14

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.131	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208444 - MW-13

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0254	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001

Continued ...

... Continued Sample: 208444 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		0.0254	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.102	mg/L	5	0.10	102	70 - 130
4-BFB		0.0826	mg/L	5	0.10	82	70 - 130

Sample: 208444 - MW-13

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208444 - MW-13

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		328	mg/L	50	1

Sample: 208444 - MW-13

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		2.29	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208445 - MW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001

Continued ...

Report Date: September 30, 2002
786

Order Number: A02092023
Texaco South Eunice Gas Plant

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Eunice Plant

... Continued Sample: 208445 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.105	mg/L	1	0.10	105	70 - 130
4-BFB		0.0836	mg/L	1	0.10	84	70 - 130

Sample: 208445 - MW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208445 - MW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		412	mg/L	50	1

Sample: 208445 - MW-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.193	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208446 - MW-8

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001

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... Continued Sample: 208446 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0968	mg/L	1	0.10	97	70 - 130
4-BFB		0.078	mg/L	1	0.10	78	70 - 130

Sample: 208446 - MW-8

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208446 - MW-8

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		1790	mg/L	100	1

Sample: 208446 - MW-8

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.187	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208447 - MW-6

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23666 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22152 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0066	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0066	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.102	mg/L	1	0.10	102	70 - 130
4-BFB		0.0714	mg/L	1	0.10	71	70 - 130

Sample: 208447 - MW-6

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208447 - MW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		11010	mg/L	1000	1

Sample: 208447 - MW-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.152	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208448 - MW-18

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0995	mg/L	5	0.10	99	70 - 130

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-BFB		0.0799	mg/L	5	0.10	79	70 - 130

Sample: 208448 - MW-18

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23818 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208448 - MW-18

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		4920	mg/L	500	1

Sample: 208448 - MW-18

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.163	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208449 - MWD-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0048	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0048	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.100	mg/L	1	0.10	100	70 - 130
4-BFB		0.085	mg/L	1	0.10	85	70 - 130

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Sample: 208449 - MWD-4

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208449 - MWD-4

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		516	mg/L	50	1

Sample: 208449 - MWD-4

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.722	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208450 - MWD-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.109	mg/L	1	0.10	109	70 - 130
4-BFB		0.0922	mg/L	1	0.10	92	70 - 130

Sample: 208450 - MWD-7

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

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Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208450 - MWD-7

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		7620	mg/L	500	1

Sample: 208450 - MWD-7

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23701 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.106	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208451 - MWD-11

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.107	mg/L	1	0.10	107	70 - 130
4-BFB		0.0897	mg/L	1	0.10	90	70 - 130

Sample: 208451 - MWD-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

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Sample: 208451 - MWD-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		2700	mg/L	100	1

Sample: 208451 - MWD-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.150	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208452 - TMW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0367	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		0.0367	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.103	mg/L	5	0.10	103	70 - 130
4-BFB		0.087	mg/L	5	0.10	88	70 - 130

Sample: 208452 - TMW-1

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208452 - TMW-1

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

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Param	Flag	Result	Units	Dilution	RDL
Chloride		916	mg/L	100	1

Sample: 208452 - TMW-1

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0562	mg/L	1	0.05
Total Barium		0.998	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208453 - MW-17

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.107	mg/L	1	0.10	107	70 - 130
4-BFB		0.0844	mg/L	1	0.10	84	70 - 130

Sample: 208453 - MW-17

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208453 - MW-17

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		5750	mg/L	500	1

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Sample: 208453 - MW-17

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.105	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208454 - MW-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0213	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0213	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.113	mg/L	1	0.10	113	70 - 130
4-BFB		0.0829	mg/L	1	0.10	83	70 - 130

Sample: 208454 - MW-4

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208454 - MW-4

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		17300	mg/L	1000	1

Sample: 208454 - MW-4

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

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Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.144	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208455 - MWD-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.973	mg/L	50	0.001
Toluene		<0.050	mg/L	50	0.001
Ethylbenzene		<0.050	mg/L	50	0.001
M,P,O-Xylene		<0.050	mg/L	50	0.001
Total BTEX		0.973	mg/L	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.114	mg/L	50	0.10	114	70 - 130
4-BFB		0.0908	mg/L	50	0.10	90	70 - 130

Sample: 208455 - MWD-12

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208455 - MWD-12

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		5300	mg/L	500	1

Sample: 208455 - MWD-12

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.0602	mg/L	1	0.05
Total Barium		0.963	mg/L	1	0.10

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... Continued Sample: 208455 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208456 - MW-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.0067	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		0.0067	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.105	mg/L	1	0.10	105	70 - 130
4-BFB		0.083	mg/L	1	0.10	83	70 - 130

Sample: 208456 - MW-7

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208456 - MW-7

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23733 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22206 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		719	mg/L	100	1

Sample: 208456 - MW-7

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23702 Date Analyzed: 9/23/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22171 Date Prepared: 9/23/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		1.04	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005

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... Continued Sample: 208456 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Chromium		<0.010	mg/L	1	0.01
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Sample: 208457 - MWD-8

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC23667 Date Analyzed: 9/20/02
Analyst: CG Preparation Method: S 5030B Prep Batch: PB22153 Date Prepared: 9/20/02

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0993	mg/L	1	0.10	99	70 - 130
4-BFB		0.0809	mg/L	1	0.10	81	70 - 130

Sample: 208457 - MWD-8

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC23819 Date Analyzed: 9/27/02
Analyst: BC Preparation Method: N/A Prep Batch: PB22272 Date Prepared: 9/27/02

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 208457 - MWD-8

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC23731 Date Analyzed: 9/24/02
Analyst: JSW Preparation Method: N/A Prep Batch: PB22207 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Chloride		12600	mg/L	1000	1

Sample: 208457 - MWD-8

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC23771 Date Analyzed: 9/25/02
Analyst: RR Preparation Method: S 3010A Prep Batch: PB22202 Date Prepared: 9/24/02

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.050	mg/L	1	0.05
Total Barium		0.142	mg/L	1	0.10
Total Cadmium		<0.005	mg/L	1	0.005
Total Chromium		0.0136	mg/L	1	0.01

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... Continued Sample: 208457 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Lead		<0.010	mg/L	1	0.01
Total Selenium		<0.050	mg/L	1	0.05
Total Silver		<0.0125	mg/L	1	0.01

Quality Control Report Method Blank

Method Blank QCBatch: QC23666

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0969	mg/L	1	0.10	97	70 - 130
4-BFB		0.0818	mg/L	1	0.10	82	70 - 130

Method Blank QCBatch: QC23667

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.102	mg/L	1	0.10	102	70 - 130
4-BFB		0.0827	mg/L	1	0.10	83	70 - 130

Method Blank QCBatch: QC23701

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23702

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23731

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC23733

Param	Flag	Results	Units	Reporting Limit
Chloride		<1.0	mg/L	1

Method Blank QCBatch: QC23771

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.050	mg/L	0.05
Total Barium		<0.100	mg/L	0.10
Total Cadmium		<0.005	mg/L	0.005
Total Chromium		<0.010	mg/L	0.01
Total Lead		<0.010	mg/L	0.01
Total Selenium		<0.050	mg/L	0.05
Total Silver		<0.0125	mg/L	0.01

Method Blank QCBatch: QC23818

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Method Blank QCBatch: QC23819

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Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC23666

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0953	0.0975	mg/L	1	0.10	<0.001	95	2	70 - 130	20
Benzene	0.0974	0.0984	mg/L	1	0.10	<0.001	97	1	70 - 130	20
Toluene	0.0935	0.0959	mg/L	1	0.10	<0.001	94	2	70 - 130	20
Ethylbenzene	0.0955	0.0977	mg/L	1	0.10	<0.001	96	2	70 - 130	20
M,P,O-Xylene	0.283	0.288	mg/L	1	0.30	<0.001	94	2	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.0986	0.100	mg/L	1	0.10	99	100	70 - 130
4-BFB	0.095	0.0978	mg/L	1	0.10	95	98	70 - 130

Laboratory Control Spikes

QCBatch: QC23667

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0971	0.100	mg/L	1	0.10	<0.001	97	3	70 - 130	20
Benzene	0.0978	0.103	mg/L	1	0.10	<0.001	98	5	70 - 130	20
Toluene	0.0935	0.101	mg/L	1	0.10	<0.001	94	8	70 - 130	20
Ethylbenzene	0.0953	0.103	mg/L	1	0.10	<0.001	95	8	70 - 130	20
M,P,O-Xylene	0.282	0.301	mg/L	1	0.30	<0.001	94	6	70 - 130	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.101	0.105	mg/L	1	0.10	101	105	70 - 130
4-BFB	0.0976	0.101	mg/L	1	0.10	98	101	70 - 130

Laboratory Control Spikes

QCBatch: QC23701

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.579	0.594	mg/L	1	0.50	<0.050	115	2	75 - 125	20
Total Barium	1.06	1.06	mg/L	1	1	<0.100	106	0	75 - 125	20
Total Cadmium	0.275	0.276	mg/L	1	0.25	<0.005	110	0	75 - 125	20

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Chromium	0.107	0.107	mg/L	1	0.10	<0.010	107	0	75 - 125	20
Total Lead	0.529	0.535	mg/L	1	0.50	<0.010	105	1	75 - 125	20
Total Selenium	0.458	0.463	mg/L	1	0.50	<0.050	91	1	75 - 125	20
Total Silver	0.130	0.131	mg/L	1	0.12	<0.0125	104	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23702

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.579	0.594	mg/L	1	0.50	<0.050	116	2	75 - 125	20
Total Barium	1.06	1.06	mg/L	1	1	<0.100	106	0	75 - 125	20
Total Cadmium	0.275	0.276	mg/L	1	0.25	<0.005	110	0	75 - 125	20
Total Chromium	0.107	0.107	mg/L	1	0.10	<0.010	107	0	75 - 125	20
Total Lead	0.529	0.535	mg/L	1	0.50	<0.010	106	1	75 - 125	20
Total Selenium	0.458	0.463	mg/L	1	0.50	<0.050	92	1	75 - 125	20
Total Silver	0.130	0.131	mg/L	1	0.12	<0.0125	104	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23731

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.27	11.29	mg/L	1	12.50	<1.0	90	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23733

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	11.22	11.23	mg/L	1	12.50	<1.0	89	0	90 - 110	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23771

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.612	0.650	mg/L	1	0.50	<0.050	122	6	75 - 125	20
Total Barium	1.02	1.02	mg/L	1	1	<0.100	102	0	75 - 125	20
Total Cadmium	0.264	0.263	mg/L	1	0.25	<0.005	106	0	75 - 125	20
Total Chromium	0.104	0.106	mg/L	1	0.10	<0.010	104	2	75 - 125	20
Total Lead	0.505	0.504	mg/L	1	0.50	<0.010	101	0	75 - 125	20

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Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Selenium	0.428	0.440	mg/L	1	0.50	<0.050	86	3	75 - 125	20
Total Silver	0.125	0.126	mg/L	1	0.12	<0.0125	100	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23818

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00100	0.00101	mg/L	1	0.001	<0.0002	100	0	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spikes

QCBatch: QC23819

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00100	0.00101	mg/L	1	0.001	<0.0002	100	0	87 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC23701

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.579	0.574	mg/L	1	0.50	<0.050	115	0	75 - 125	20
Total Barium	1.09	1.08	mg/L	1	1	0.113	97	1	75 - 125	20
Total Cadmium	0.263	0.261	mg/L	1	0.25	<0.005	102	0	75 - 125	20
Total Chromium	0.283	0.282	mg/L	1	0.10	0.185	97	1	75 - 125	20
Total Lead	0.563	0.555	mg/L	1	0.50	<0.010	112	1	75 - 125	20
Total Selenium	0.486	0.490	mg/L	1	0.50	0.0502	87	0	75 - 125	20
Total Silver	0.133	0.134	mg/L	1	0.12	<0.0125	106	0	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

QCBatch: QC23702

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.568	0.586	mg/L	1	0.50	<0.050	114	3	75 - 125	20

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Barium	1.14	1.15	mg/L	1	1	0.150	114	1	75 - 125	20
Total Cadmium	0.263	0.263	mg/L	1	0.25	<0.005	105	0	75 - 125	20
Total Chromium	0.102	0.101	mg/L	1	0.10	<0.010	102	1	75 - 125	20
Total Lead	0.559	0.575	mg/L	1	0.50	<0.010	112	3	75 - 125	20
Total Selenium	0.477	0.480	mg/L	1	0.50	<0.050	95	1	75 - 125	20
Total Silver	0.138	0.139	mg/L	1	0.12	<0.0125	110	1	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23731

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	23840	23940	mg/L	1	12500	12600	89	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23733

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Chloride	2900	2910	mg/L	1	1250	1790	88	0	48 - 127	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23771

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Arsenic	0.582	0.570	mg/L	1	0.50	<0.050	116	2	75 - 125	20
Total Barium	1.03	1.01	mg/L	1	1	0.142	88	2	75 - 125	20
Total Cadmium	0.216	0.213	mg/L	1	0.25	<0.005	83	1	75 - 125	20
Total Chromium	0.0972	0.0971	mg/L	1	0.10	0.0136	83	0	75 - 125	20
Total Lead	0.422	0.416	mg/L	1	0.50	<0.010	84	1	75 - 125	20
Total Selenium	0.390	0.378	mg/L	1	0.50	<0.050	78	3	75 - 125	20
Total Silver	0.130	0.127	mg/L	1	0.12	<0.0125	104	2	75 - 125	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23818

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Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	¹ 0.00062	² 0.00063	mg/L	1	0.001	<0.0002	62	1	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes QCBatch: QC23819

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	³ 0.00056	⁴ 0.00057	mg/L	1	0.001	<0.0002	56	1	40 - 177	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC23666

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0953	95	85 - 115	9/20/02
Benzene		mg/L	0.10	0.0951	95	85 - 115	9/20/02
Toluene		mg/L	0.10	0.0918	92	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.0937	94	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.276	92	85 - 115	9/20/02

CCV (2) QCBatch: QC23666

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0999	99	85 - 115	9/20/02
Benzene		mg/L	0.10	0.112	112	85 - 115	9/20/02
Toluene		mg/L	0.10	0.105	105	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.104	104	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.306	102	85 - 115	9/20/02

ICV (1) QCBatch: QC23666

¹MS RECOVERY INVALID DUE TO MATRIX EFFECT, USE LCS/LCSD TO DEMONSTRATE THE RUN IS UNDER CONTROL.

²MS RECOVERY INVALID DUE TO MATRIX EFFECT, USE LCS/LCSD TO DEMONSTRATE THE RUN IS UNDER CONTROL.

³MS RECOVERY INVALID DUE TO MATRIX EFFECT, USE LCS/LCSD TO DEMONSTRATE THE RUN IS UNDER CONTROL.

⁴MS RECOVERY INVALID DUE TO MATRIX EFFECT, USE LCS/LCSD TO DEMONSTRATE THE RUN IS UNDER CONTROL.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.108	108	85 - 115	9/20/02
Benzene		mg/L	0.10	0.104	104	85 - 115	9/20/02
Toluene		mg/L	0.10	0.106	106	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.107	107	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.312	104	85 - 115	9/20/02

CCV (1) QCBatch: QC23667

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0898	90	85 - 115	9/20/02
Benzene		mg/L	0.10	0.0938	94	85 - 115	9/20/02
Toluene		mg/L	0.10	0.0866	87	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.0859	86	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.266	89	85 - 115	9/20/02

CCV (2) QCBatch: QC23667

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0918	91	85 - 115	9/20/02
Benzene		mg/L	0.10	0.0992	99	85 - 115	9/20/02
Toluene		mg/L	0.10	0.0935	93	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.094	94	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.28	93	85 - 115	9/20/02

ICV (1) QCBatch: QC23667

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.107	107	85 - 115	9/20/02
Benzene		mg/L	0.10	0.113	113	85 - 115	9/20/02
Toluene		mg/L	0.10	0.110	110	85 - 115	9/20/02
Ethylbenzene		mg/L	0.10	0.113	113	85 - 115	9/20/02
M,P,O-Xylene		mg/L	0.30	0.328	109	85 - 115	9/20/02

CCV (1) QCBatch: QC23701

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.09	109	90 - 110	9/23/02
Total Barium		mg/L	2	2.06	103	90 - 110	9/23/02
Total Cadmium		mg/L	0.50	0.527	105	90 - 110	9/23/02
Total Chromium		mg/L	0.20	0.211	105	90 - 110	9/23/02
Total Lead		mg/L	1	1.04	104	90 - 110	9/23/02
Total Selenium		mg/L	1	1.06	106	90 - 110	9/23/02
Total Silver		mg/L	0.25	0.257	102	90 - 110	9/23/02

ICV (1) QCBatch: QC23701

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.05	105	95 - 105	9/23/02
Total Barium		mg/L	2	2.04	102	95 - 105	9/23/02
Total Cadmium		mg/L	0.50	0.512	102	95 - 105	9/23/02
Total Chromium		mg/L	0.20	0.206	103	95 - 105	9/23/02
Total Lead		mg/L	1	1.02	102	95 - 105	9/23/02
Total Selenium		mg/L	1	1.03	103	95 - 105	9/23/02
Total Silver		mg/L	0.25	0.255	102	95 - 105	9/23/02

CCV (1) QCBatch: QC23702

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.07	107	90 - 110	9/23/02
Total Barium		mg/L	2	2.07	104	90 - 110	9/23/02
Total Cadmium		mg/L	0.50	0.525	105	90 - 110	9/23/02
Total Chromium		mg/L	0.20	0.210	105	90 - 110	9/23/02
Total Lead		mg/L	1	1.04	104	90 - 110	9/23/02
Total Selenium		mg/L	1	1.06	106	90 - 110	9/23/02
Total Silver		mg/L	0.25	0.259	104	90 - 110	9/23/02

ICV (1) QCBatch: QC23702

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.05	105	95 - 105	9/23/02
Total Barium		mg/L	2	2.04	102	95 - 105	9/23/02
Total Cadmium		mg/L	0.50	0.512	102	95 - 105	9/23/02
Total Chromium		mg/L	0.20	0.206	103	95 - 105	9/23/02
Total Lead		mg/L	1	1.02	102	95 - 105	9/23/02
Total Selenium		mg/L	1	1.03	103	95 - 105	9/23/02
Total Silver		mg/L	0.25	0.255	102	95 - 105	9/23/02

Report Date: September 30, 2002
786

Order Number: A02092023
Texaco South Eunice Gas Plant

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Eunice Plant

CCV (1) QCBatch: QC23731

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.25	90	90 - 110	9/24/02

ICV (1) QCBatch: QC23731

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.29	90	90 - 110	9/24/02

CCV (1) QCBatch: QC23733

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.29	90	90 - 110	9/24/02

ICV (1) QCBatch: QC23733

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.50	11.21	89	90 - 110	9/24/02

CCV (1) QCBatch: QC23771

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	0.991	99	90 - 110	9/25/02
Total Barium		mg/L	2	1.97	98	90 - 110	9/25/02
Total Cadmium		mg/L	0.50	0.489	98	90 - 110	9/25/02
Total Chromium		mg/L	0.20	0.199	100	90 - 110	9/25/02
Total Lead		mg/L	1	0.985	98	90 - 110	9/25/02
Total Selenium		mg/L	1	0.992	99	90 - 110	9/25/02
Total Silver		mg/L	0.25	0.249	100	90 - 110	9/25/02

ICV (1) QCBatch: QC23771

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	1	1.01	101	95 - 105	9/25/02
Total Barium		mg/L	2	1.97	98	95 - 105	9/25/02
Total Cadmium		mg/L	0.50	0.488	98	95 - 105	9/25/02
Total Chromium		mg/L	0.20	0.197	98	95 - 105	9/25/02
Total Lead		mg/L	1	0.991	99	95 - 105	9/25/02
Total Selenium		mg/L	1	1.01	101	95 - 105	9/25/02
Total Silver		mg/L	0.25	0.249	100	95 - 105	9/25/02

CCV (1) QCBatch: QC23818

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00099	99	80 - 120	9/27/02

ICV (1) QCBatch: QC23818

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00105	105	80 - 120	9/27/02

CCV (1) QCBatch: QC23819

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00099	99	80 - 120	9/27/02

ICV (1) QCBatch: QC23819

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00105	105	80 - 120	9/27/02

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6701 Aberdeen Ave., Suite 9

Lubbock TX 79424-1515

(806) 794-1296

Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas PlantPage Number: 1 of 8
Eunice Plant

Summary Report

Ike Taveraz
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: October 8, 2002

Order ID Number: A02092618

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208894	MWD-1	Water	9/23/02	9:45	9/26/02
208895	MW-23	Water	9/23/02	10:20	9/26/02
208896	MWD-2	Water	9/23/02	11:05	9/26/02
208897	MWD-9	Water	9/23/02	12:35	9/26/02
208898	MWD-13	Water	9/23/02	13:45	9/26/02
208899	MWD-3	Water	9/23/02	15:15	9/26/02
208900	MW-22	Water	9/23/02	15:50	9/26/02
208901	MWD-6	Water	9/23/02	17:00	9/26/02
208902	MWD-10	Water	9/23/02	18:20	9/26/02
208903	MWD-14	Water	9/24/02	10:20	9/26/02
208904	MW-19	Water	9/24/02	11:00	9/26/02
208905	TMW-3	Water	9/24/02	12:25	9/26/02
208906	MW-25	Water	9/24/02	13:10	9/26/02
208907	TMW-6	Water	9/24/02	13:45	9/26/02
208908	MW-26	Water	9/24/02	14:30	9/26/02
208909	MW-9	Water	9/24/02	15:05	9/26/02
208910	MW-27	Water	9/25/02	9:15	9/26/02
208911	MW-10	Water	9/25/02	9:50	9/26/02
208912	MW-28	Water	9/25/02	10:30	9/26/02
208913	MW-24	Water	9/25/02	11:09	9/26/02
208914	MW-11	Water	9/25/02	12:30	9/26/02
208915	MW-12	Water	9/25/02	13:10	9/26/02

0 This report consists of a total of 8 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208894 - MWD-1	<0.001	<0.001	<0.001	<0.001	<0.001
208895 - MW-23	<0.001	<0.001	<0.001	<0.001	<0.001
208896 - MWD-2	<0.001	<0.001	<0.001	<0.001	<0.001
208897 - MWD-9	<0.001	<0.001	<0.001	<0.001	<0.001
208898 - MWD-13	<0.001	<0.001	<0.001	<0.001	<0.001
208899 - MWD-3	0.656	<0.005	0.0162	0.0196	0.692
208900 - MW-22	0.730	0.0232	0.0291	0.021	0.804
208901 - MWD-6	0.120	<0.010	<0.010	<0.010	0.120

Continued...

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(806) 794-1296

Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas PlantPage Number: 2 of 8
Eunice Plant

Continued ...

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M P O-Xylene (ppm)	Total BTEX (ppm)
208902 - MWD-10	0.441	<0.010	0.244	0.0437	0.729
208903 - MWD-14	2.02	0.163	<0.050	<0.050	2.18
208904 - MW-19	0.437	<0.050	<0.050	<0.050	0.437
208905 - TMW-3	0.0417	<0.020	0.523	<0.020	0.565
208906 - MW-25	2.01	<0.100	0.194	<0.100	2.30
208907 - TMW-6	3.62	<0.050	0.698	0.103	4.42
208908 - MW-26	7.72	<0.050	0.117	<0.050	7.94
208909 - MW-9	6.72	0.309	0.349	0.248	7.63
208910 - MW-27	13.0	0.160	0.220	<0.100	13.4
208911 - MW-10	52.4	0.779	0.467	<0.200	53.6
208912 - MW-28	37.0	23.7	1.87	3.56	66.1
208913 - MW-24	39.7	4.03	0.503	0.844	45.2
208914 - MW-11	41.9	6.92	0.506	0.664	50.0
208915 - MW-12	70.2	33.6	2.94	4.77	112

Sample: 208894 - MWD-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208895 - MW-23

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17400	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		0.00595	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208896 - MWD-2

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L

Continued on next page ...

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Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas PlantPage Number: 3 of 5
Eunice Plant

Sample 208896 continued ...

Param	Flag	Result	Units
Chloride		22800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.101	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208897 - MWD-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		22800	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208898 - MWD-13

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		27100	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		<0.100	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208899 - MWD-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		46600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.122	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas PlantPage Number: 4 of 8
Eunice Plant

Sample 208899 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208900 - MW-22

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		44200	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.146	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208901 - MWD-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		798	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		3.17	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208902 - MWD-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7800	mg/L
Total Arsenic		0.0649	mg/L
Total Barium		0.678	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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Report Date: October 8, 2002 Order Number: A02092618

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Texaco South Eunice Gas Plant

Eunice Plant

Sample: 208903 - MWD-14

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		21300	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.243	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208904 - MW-19

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		3010	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.942	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208905 - TMW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1400	mg/L
Total Arsenic		0.0555	mg/L
Total Barium		1.33	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208906 - MW-25

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2940	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.167	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

*Continued on next page ...**This is only a summary. Please, refer to the complete report package for quality control data.*

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Report Date: October 8, 2002 Order Number: A02092618
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Eunice Plant

Sample 208906 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208907 - TMW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		821	mg/L
Total Arsenic		0.126	mg/L
Total Barium		1.40	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208908 - MW-26

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		667	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.00	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.020	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208909 - MW-9

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		443	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		14.5	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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TraceAnalysis, Inc.

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Lubbock, TX 79424-1515

(806) 794-1226

Report Date: October 8, 2002 Order Number: A02092618
786 Texaco South Eunice Gas PlantPage Number: 7 of 8
Eunice Plant**Sample: 208910 - MW-27**

Param	Flag	Result	Units
Total Mercury		0.00033	mg/L
Chloride		818	mg/L
Total Arsenic		0.215	mg/L
Total Barium		0.226	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208911 - MW-10

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		382	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		4.34	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208912 - MW-28

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1420	mg/L
Total Arsenic		0.240	mg/L
Total Barium		0.309	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208913 - MW-24

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		99.4	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		5.72	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

Continued on next page ...

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Report Date: October 8, 2002 Order Number: A02092618
780 Texaco South Eunice Gas Plant

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Eunice Plant

Sample 208913 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208914 - MW-11

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		812	mg/L
Total Arsenic		0.080	mg/L
Total Barium		5.13	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208915 - MW-12

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1510	mg/L
Total Arsenic		0.534	mg/L
Total Barium		1.12	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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(806) 794-1298

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas PlantPage Number: 1 of 6
Eunice Plant

Summary Report

Ike Tavares
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: September 30, 2002

Order ID Number: A02092023

Project Number: 786
Project Name: Texaco South Eunice Gas Plant
Project Location: Eunice Plant

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
208441	MW-16	Water	9/16/02	11:15	9/20/02
208442	MW-15	Water	9/16/02	12:00	9/20/02
208443	MW-14	Water	9/16/02	13:40	9/20/02
208444	MW-13	Water	9/16/02	14:25	9/20/02
208445	MW-3	Water	9/16/02	15:00	9/20/02
208446	MW-8	Water	9/16/02	15:50	9/20/02
208447	MW-6	Water	9/17/02	20:45	9/20/02
208448	MW-18	Water	9/17/02	9:30	9/20/02
208449	MWD-4	Water	9/17/02	11:25	9/20/02
208450	MWD-7	Water	9/17/02	12:30	9/20/02
208451	MWD-11	Water	9/17/02	14:00	9/20/02
208452	TMW-1	Water	9/17/02	2:40	9/20/02
208453	MW-17	Water	9/17/02	3:50	9/20/02
208454	MW-4	Water	9/17/02	4:30	9/20/02
208455	MWD-12	Water	9/18/02	9:20	9/20/02
208456	MW-7	Water	9/18/02	10:50	9/20/02
208457	MWD-8	Water	9/18/02	11:50	9/20/02

0 This report consists of a total of 6 page(s) and is intended only as a summary of results for the sample(s) listed above.

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M.P.O-Xylene (ppm)	Total BTEX (ppm)
208441 - MW-16	<0.001	<0.001	<0.001	<0.001	<0.001
208442 - MW-15	0.0034	<0.001	<0.001	<0.001	0.0034
208443 - MW-14	<0.001	<0.001	<0.001	<0.001	<0.001
208444 - MW-13	0.0254	<0.005	<0.005	<0.005	0.0254
208445 - MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
208446 - MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
208447 - MW-6	0.0066	<0.001	<0.001	<0.001	0.0066
208448 - MW-18	<0.005	<0.005	<0.005	<0.005	<0.005
208449 - MWD-4	0.0048	<0.001	<0.001	<0.001	0.0048
208450 - MWD-7	<0.001	<0.001	<0.001	<0.001	<0.001
208451 - MWD-11	<0.001	<0.001	<0.001	<0.001	<0.001
208452 - TMW-1	0.0367	<0.005	<0.005	<0.005	0.0367
208453 - MW-17	<0.001	<0.001	<0.001	<0.001	<0.001

Continued ...

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TraceAnalysis, Inc.

6701 Aberdeen Ave., Suite 9

Lubbock, TX 79424-1515

(806) 794-1296

Report Date: September 30, 2002 Order Number: A02092023
786 Texaco South Eunice Gas PlantPage Number: 2 of 6
Eunice Plant

Continued ...

Sample - Field Code	BTEX				
	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	M,P,O-Xylene (ppm)	Total BTEX (ppm)
208444 - MW-4	0.0213	<0.001	<0.001	<0.001	0.0213
208445 - MWD-12	0.973	<0.050	<0.050	<0.050	0.973
208446 - MW-7	0.0067	<0.001	<0.001	<0.001	0.0067
208447 - MWD-8	<0.001	<0.001	<0.001	<0.001	<0.001

Sample: 208441 - MW-16

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1540	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.113	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.185	mg/L
Total Lead		<0.010	mg/L
Total Selenium		0.0502	mg/L
Total Silver		<0.0125	mg/L

Sample: 208442 - MW-15

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2310	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.105	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208443 - MW-14

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		319	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.131	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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Eunice Plant**Sample: 208444 - MW-13**

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		328	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		2.29	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208445 - MW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		412	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.193	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208446 - MW-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		1790	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.187	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208447 - MW-6

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		11010	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.152	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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Eunice Plant

Sample 208447 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208448 - MW-18

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		4920	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.163	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208449 - MWD-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		516	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.722	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208450 - MWD-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		7620	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.106	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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Lubbock, TX 79424-1515

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Report Date: September 30, 2002 Order Number: A02092023
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Eunice Plant**Sample: 208451 - MWD-11**

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		2700	mg/L
Total Arsenic		<0.030	mg/L
Total Barium		0.160	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208452 - TMW-1

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		916	mg/L
Total Arsenic		0.0662	mg/L
Total Barium		0.998	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208453 - MW-17

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		5750	mg/L
Total Arsenic		<0.030	mg/L
Total Barium		0.105	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208454 - MW-4

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		17300	mg/L
Total Arsenic		<0.030	mg/L
Total Barium		0.144	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L

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786 Texaco South Eunice Gas Plant

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Eunice Plant

Sample 208454 continued ...

Param	Flag	Result	Units
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208455 - MWD-12

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		5300	mg/L
Total Arsenic		0.0602	mg/L
Total Barium		0.963	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208456 - MW-7

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		719	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		1.04	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		<0.010	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

Sample: 208457 - MWD-8

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Chloride		12600	mg/L
Total Arsenic		<0.050	mg/L
Total Barium		0.142	mg/L
Total Cadmium		<0.005	mg/L
Total Chromium		0.0136	mg/L
Total Lead		<0.010	mg/L
Total Selenium		<0.050	mg/L
Total Silver		<0.0125	mg/L

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Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy.

3' Engineer (G.I.) 7.566 844-1

Appendix C

Drilling Logs

DRILLING LOG

Boring/Well: MWD-7
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 85'
Date Installed: 1/15/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-55	Tan, fine grain sand, loose, trace of cemented sandstone layers
55-65	Brown and tan, dense cemented sandstone layer
65-70	Tan, fine grain sand, loose, sandy layer
70-85	Tan, fine grain sand and gravel, loose
85-90	Greenish-yellowish clay and gravel, red clay at 90'
	TD - 85'

DRILLING LOG

Boring/Well: MWD-8
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 85'
Date Installed: 1/16/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, trace of cemented sandstone layers
70-80	Tan, fine grain sand, loose, trace of cemented sandstone layers
80-85	Gravel and fine grain sand, loose, some red clay encountered at 83'
85-90	Red clay and traces of gravel, dense clay encountered at 88'
90	Greenish-yellowish clay, some gravel, trace of cemented sandstone layer
	TD - 85'

DRILLING LOG

Boring/Well: MWD-9
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 90'
Date Installed: 1/17/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, encountered dense layer of cemented sandstone from 62'-68'
70-80	Gravel and fine grain sand, loose
80-85	Gravel and fine grain sand, loose, some clay encountered at 85'
85-95	Red clay and traces of gravel
95	Greenish-yellowish clay, some gravel, trace of cemented sandstone layer
	TD - 90'

DRILLING LOG

Boring/Well: MWD-10
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 85'
Date Installed: 1/18/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, trace of cemented sandstone layers
70-80	Tan, fine grain sand, loose, trace of cemented sandstone layers
80-83	Dense layer of cemented sandstone from 80' - 83'
83-87	Gravel and fine grain sand, loose, some traces of clay matrix
87	Greenish-yellowish clay, some gravel, trace of cemented sandstone layer
	TD - 85'

DRILLING LOG

Boring/Well: MWD-11
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 94'
Date Installed: 1/21/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, trace of cemented sandstone layers
70-80	Tan, fine grain sand, loose, trace of cemented sandstone layers
80-90	Tan, fine grain sand, loose, trace of cemented sandstone layers, dense layer at 88'
90-95	Gravel and fine grain sand, loose, some traces of clay matrix
95-100	Greenish-yellowish clay, some gravel, cemented sandstone layer at 98'
	TD - 94'

DRILLING LOG

Boring/Well: MWD-12
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 88'
Date Installed: 1/22/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, caliche and traces of sandstone
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, trace of cemented sandstone layers
70-80	Tan, fine grain sand and gravel, loose with some pink clay matrix
80-87	Tan, fine grain sand and gravel, loose
87-90	Gravel and fine grain sand, firm clay matrix encountered at 88'
	TD - 88'

DRILLING LOG

Boring/Well: MWD-13
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 90'
Date Installed: 1/23/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche from 4-5'
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-72	Tan, fine grain sand, loose, trace of sandy clay
72-78	Tan, fine grain sand and gravel, loose with some pink clay matrix
78-80	Red clay, firm, trace of gravel
80-90	Sandy clay and gravel, red and gray clay encountered at 90'
	TD - 90'

DRILLING LOG

Boring/Well: MWD-14
Site Location: South Eunice Gas Plant
Location: Eunice, New Mexico
Total Depth: 90'
Date Installed: 1/24/02

DEPTH (Ft)	SAMPLE DESCRIPTION
0-10	Tan, fine grain sand, dense layer, white caliche
10-20	Tan, fine grain sand, dense layer, traces of caliche and sandstone
20-40	Brown, fine grain sand, dense layers of cemented sandstone, trace of caliche
40-50	Tan, fine grain sand, loose, trace of cemented sandstone layers
50-60	Tan, fine grain sand, loose, trace of cemented sandstone layers
60-70	Tan, fine grain sand, loose, trace of sandy clay
70-80	Tan, fine grain sand and gravel, loose, dense layer of cemented sandstone from 75'- 80'
80-85	Tan, fine grain sand, loose
85-90	Gravel and sandy clay, red and gray clay
90	Greenish-yellowish clay, some gravel, cemented sandstone layer at 98'
	TD - 90'