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REPORTS

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2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION TEXACO EXPLORATION & PRODUCTION INC. EUNICE #1 (SOUTH) GAS PLANT LEA COUNTY, NEW MEXICO

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Prepared by

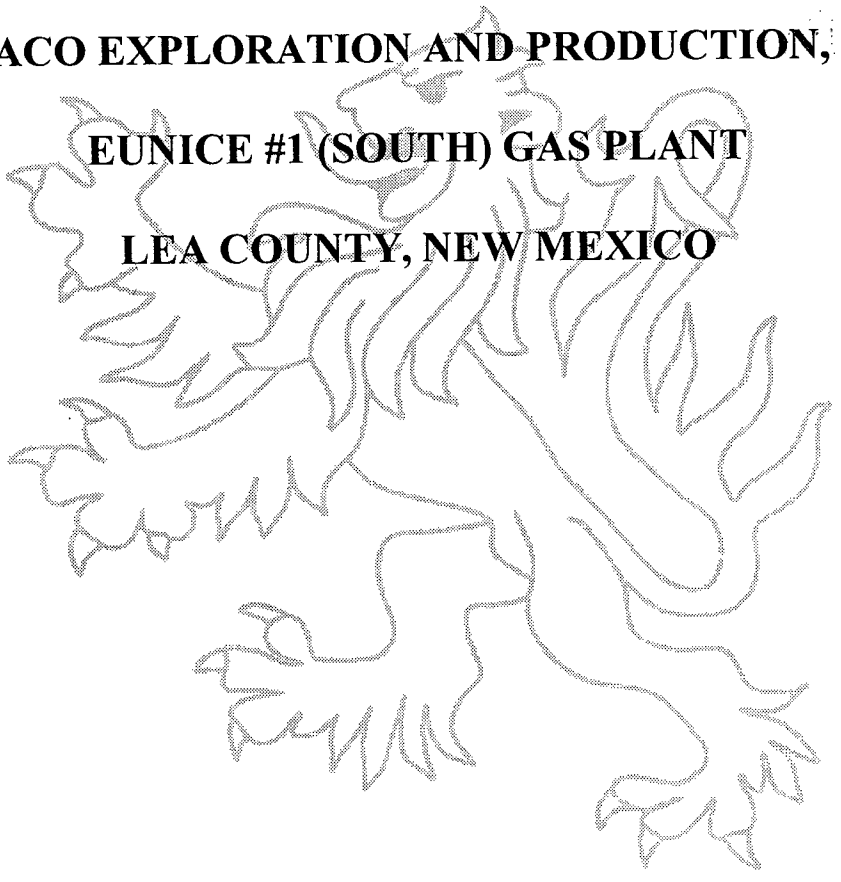
Highlander Environmental Corp.

2000 ANNUAL SUMMARY
OF
INVESTIGATION & REMEDIATION

TEXACO EXPLORATION AND PRODUCTION, INC.

EUNICE #1 (SOUTH) GAS PLANT

LEA COUNTY, NEW MEXICO



Highlander Environmental Corp.

Midland, Texas

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2000 ANNUAL SUMMARY OF INVESTIGATION & REMEDIATION TEXACO EXPLORATION AND PRODUCTION, INC. EUNICE #1 (SOUTH) GAS PLANT LEA COUNTY, NEW MEXICO

1.0 INTRODUCTION

Highlander Environmental Corp. (Highlander) has been retained by Texaco Exploration and Production, Inc. (Texaco) to delineate the extent and remediate subsurface impacts to soils and groundwater at Texaco's Eunice #1 (South) Gas Plant, 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 Eunice #1 (South) Gas Plant (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 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.

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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.

1.2 Scope of Work

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

1. Removal and soil sampling of the East Sump, the Drain (concrete) Sump, the Oil and Water Sump, and the Slop Oil Sump. In addition a boring (BH-1) was performed in the Drain (Concrete) Sump. Activities performed were in accordance with the Proposed Groundwater Treatment and Disposal Plan submitted to Mr. William Olson (NMOCD) on September 29, 1999.

2. Sampling and disposal activities of approximately 4800 cubic yards of soil, previously stockpiled in the northeast corner of the Site.

3. Installation activities of five additional monitor wells (MW-19, MW-20, MW-21, MW-22 and MW-23). MW-19, MW-20 and MW-21 were placed for further delineation of phase-separated hydrocarbon contamination of the groundwater. MW-22 and MW-23 were placed to evaluate possible chloride impact from surface impoundments on the east side of the plant.

4. Results of the semi-annual sampling of monitor wells, water wells, and Texaco monitor wells (TMW).

5. Closure Report of the Field Oil Pit "D" investigation, described in Section 2.0.

6. Proposed activities for the installation of the phase-separated hydrocarbon pumps necessary for remediation of the groundwater plume further detailed in Highlander's letter to Mr. William Olson (NMOCD) described as "Subsurface Environmental Assessment", and in a letter to Mr. William Olson, NMOCD, dated September 29, 1999 referred to as "Proposed Groundwater Treatment and Disposal."

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. The saturated thickness of the Ogallala Formation ranges from about 25 to 175 feet. Three inactive water wells (WW-1 through WW-3) are located at the Site and are completed in the Ogallala Formation. The total depths of the wells range from about 80 to 150 feet.

Depth-to-groundwater measurements from water wells and monitor wells at the Site on September 10, 1996, recorded the groundwater surface at depths from approximately 50 to 55 feet below ground. On September 10, 1996, the elevation of the groundwater potentiometric surface ranged from 3284.04 feet AMSL at monitor well MW-1 to 3280.34 feet AMSL at water well WW-1. Groundwater flow on September 10, 1996 was from west-northwest to east-southeast at a gradient of approximately 0.005 feet per foot (ft/ft). The groundwater flow direction on September 10, 1996 was consistent with the regional flow direction for groundwater in the High Plains aquifer. Based upon the August 2000 depth-to-groundwater measurements, groundwater flow is primarily to the south-southeast.

3.0 FIELD PIT "D" INVESTIGATION AND CLOSURE

3.1 Introduction

An investigation was performed by the consulting firm of Geraghty and Miller, Inc. near the north boundary of the Site, which adjoins the Northern Natural Gas (NNG) Compressor Station site. The investigation was conducted to evaluate the potential source(s) for petroleum hydrocarbon contamination detected in soil and groundwater at the NNG site. The investigations consisted of a review of available aerial photographs, installation of five (5) permanent monitor wells (TMW-1, TMW-2, TMW-3, TMW-5 and TMW-6), and collection of soil and groundwater samples for laboratory testing. The investigation was conducted between November 1995 and June 1996. Results of the investigation concluded that dissolved levels of benzene in groundwater from monitor wells TMW-2, TMW-3, TMW-5 and TMW-6, and xylene in groundwater from monitor well TMW-2 exceeded the New Mexico WQCC standards. The investigation also indicated that hydrocarbon contamination identified in groundwater samples from wells drilled on the Site may have originated north of the Site. No phase separated petroleum hydrocarbon was detected on the groundwater in monitor wells TMW-1, TMW-2, TMW-3, TMW-5, or TMW-6 installed by Geraghty & Miller, Inc.

In the course of the aerial photographs reviewed, Field Oil Pit "D" was identified near the north-central corner of the Site. The Pit was investigated as a potential source for petroleum hydrocarbon impact observed in soil and groundwater on the NNG site, located east of the Pit. A work plan was prepared by Geraghty & Miller, Inc. and approved by the OCD on October 23, 1996, and implemented on November 18, 1996. This report titled, "Report of the Investigation of an Unlined Surface Impoundment

Closure, Field Oil Pit D, Eunice South Gas Plant, Eunice Area, Lea County, New Mexico, January 1997" was summarized and included in Appendix B of Highlander's report, "Comprehensive Facility Investigation Work Plan, Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant, Lea County, New Mexico", January 1997.

3.2 Pit "D" Remediation

Remediation of Field Pit D commenced on February 1, 2000, and concluded on February 2, 2000. A total of 312 cubic yards of material was removed from the excavation and taken to Texaco's permitted landfarm. During the excavation, samples were taken at various intervals and along different sidewalls for field screening with an organic vapor meter (OVM). Figure 3 shows the area of excavation.

Composite sidewall and bottom hole samples were taken on February 2, 2000. The sidewalls were sampled at 8' below ground surface, and the bottom hole sample was at 14' below ground surface. Additionally, a sample was taken from the northeast corner at 8' below ground surface and at 4' below ground surface on the east wall. All samples were taken in laboratory-supplied sample containers and chilled to 4°C.

The samples were delivered under chain-of-custody control to Environmental Lab of Texas, Inc. in Odessa, Texas, and analyzed for Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by EPA method 8020, and Total Petroleum Hydrocarbons (TPH), by method 8015 modified. Verbal results were provided by the laboratory on February 3, 2000, and the results were discussed with Mr. Bill Olson at the NMOCD. Due to the fact that neither the benzene, nor the total BTEX levels were above the NMOCD Recommended Remedial Action Levels (RRAL), Mr. Olsen approved backfilling and closure of the Site. Clean backfill material was placed back into the excavation and the Site closed. Laboratory reports are enclosed in Appendix A.

4.0 IMPOUNDMENTS CLOSURE

4.1 Introduction

There were two (2) inactive surface impoundments or ponds at the Site. The ponds, identified as the North Pond (Pond #2) and South Pond (Pond #4), are located near the northeast corner of the Site. Figure 7 presents a site drawing of the impoundments.

4.2 Background

The North Pond (Pond #2) was previously used for temporary storage of 1.2 specific gravity brine displaced from cavern (jug) wells during storage of fractionated products (i.e., propane, butane, etc.). The North Pond had a designed capacity of 75,000 barrels (bbl.), and measured approximately 243 ' x 243 ' x 15 '. The pond was lined with a 45 Mil nylon reinforced butyl liner, and was equipped with leak detection. The leak detection consisted of a one-foot square perimeter collection trench, connected to a 4-

inch diameter PVC lateral near the west end of the pond. The 4-inch PVC lateral was connected to a 4-inch diameter PVC riser, where fluid measurements could be obtained. Texaco stopped using the North Pond in early 1998, and brine is currently stored in a lined impoundment (Pond #3), located west of the North Pond.

The South Pond (Pond #4) was previously used for temporary storage of water produced from Site operations (i.e., boiler and cooling tower blowdown, and produced water). Water was pumped from the pond to the permitted disposal well (SWD-1), located west of the pond. Texaco stopped using the South Pond in mid 1998. The pond had a designed capacity of approximately 52,000 bbl, and measures approximately 190' x 240' x 16'. The pond was double-lined with two (2) high-density polyethylene (HDPE) liners, and was equipped with leak detection. The leak detection system consisted of a PVC lateral located near the center of the pond, which connected to a riser pipe south of the pond. The bottom of the pond sloped inward, allowing any fluid to flow to the collection lateral. Fluid observations were made at the riser pipe located south of the pond. Water from the plant is currently placed in portable tanks, and disposed of in the SWD.

4.3 Previous Impoundment Investigation

The investigation on the impoundments was conducted in accordance with a work plan ("Revised Pond Closure Investigation Plan, Former Texaco Exploration and Production Inc., Eunice #1 (South) Gas Plant, Lea County, New Mexico, September 29, 1999"), which was approved by the NMOCD on October 5, 1999.

The investigation consisted of collecting sediment samples from the North and South Ponds on December 7, 1999, and the installation of boreholes. The boreholes were drilled inside the pits corners on January 6-7, 2000.

A Work Plan ("Pond Closure Investigation Report, Former Texaco Exploration and Production Inc., Eunice #1 (South) Gas Plant, Lea County, New Mexico, August 23, 2000") was submitted to the NMOCD for approval. The closure report was approved on September 19, 2000, by the NMOCD who requested one monitor well between the South and North Ponds.

4.4 Impoundment Site Closure Activities

Work on the site closure began on October 6, 2000. As approved, sediment in the South Pond was moved to the North Pond. An estimated 888 cubic yards of material was transferred from the South Pond to the North Pond. Once completed, the liner beneath the North Pond was folded toward the interior of the pond, and covered with the liner from the South Pond. From October 31 to November 21, 2000, the excavation was backfilled using the soil from the impoundment berms. The soil was placed into the impoundments in 12 inch to 18 inch lifts and compacted.

From November 21 to December 15, 2000, both impoundments were capped and crowned with an 18" to 3' thick, compacted clay cap. The clay was supplied by Wallach Concrete, and Wallach test data indicated the clay to have permeabilities primarily in the $1x10^{-7}$ to $1x10^{-10}$ cm/sec range. The clay material was tested for proctor by Pettigrew and Associates, using ASTM method D 698. On December 4, 2000, Pettigrew and Associates tested the clay cap to ensure that the cap had been compacted to 95% of proctor. The entire area (South and North Ponds) was graded with a final cover consisting of approximately 18 inches of topsoil, and will be seeded with forage grasses. A cross-section of a capped impoundment is presented on Figure 8. The proctor test data are shown in Appendix E.

5.0 SUMP CLOSURE

5.1 Introduction

The work plan entitled "Proposed Groundwater Treatment and Disposal Plan", dated September 29, 1999, was submitted to Mr. Wayne Price with the NMOCD. It included the removal of four sumps, East Sump, Oil and Water Sump, Slop Oil Sump and Concrete Drain Sump. Neither the East Sump nor the Flare Sump were discussed in the original Groundwater Discharge Plan discussions, but were later included by Texaco. The original Flare Sump area was investigated, but no evidence of this sump or apparent impact was found. After the removal of each sump, soil samples were collected from the bottom for evaluation. Total RCRA (8) metals samples were not taken at the Slop Oil Sump or the Oil & Water Sump due to earlier metals analyses obtained from boreholes at these sumps. Results of sampling are summarized in Table 10. The locations of the sumps are shown on Figure 9.

5.2 East Sump Removal and Sampling

The East Sump was removed on September 11, 2000. The sump was constructed of concrete and measured 5' x 5' x 5'. The sump area was over-excavated and sidewall and bottom samples taken. Based upon the bottom hole sample taken at 6.5 feet below ground surface, the site was over-excavated to approximately 9' x 13' x 10' and an additional bottom hole sample taken. The samples were analyzed for TPH by EPA method 418.1, BTEX by EPA method 8020 and total RCRA (8) metals.

5. 3 Slop Oil Sump

The Slop Oil Sump was removed on September 25, 2000. The sump was constructed of a 6' x 20' steel tank, with the bottom approximately 8' below ground surface. The sump area was over-excavated and sidewall and bottom samples taken. The site was over-excavated to approximately 20' x 20' x 15'. The samples were analyzed for TPH by EPA method 418.1 and BTEX by EPA method 8020.

5.4 Oil & Water Sump

The Oil & Water Sump was removed on September 25, 2000. The sump was constructed of concrete, measuring 8' x 8' x 6'. The sump area was over-excavated and sidewall and bottom samples taken. The site was over-excavated to approximately 20' x 20' x 10'. The samples were analyzed for TPH by EPA method 418.1 and BTEX by EPA method 8020.

5.5 Concrete Drain Sump

Prior to removal of the sump, a borehole was placed next to the sump on September 14 and deepened on September 18, 2000. The Concrete Drain Sump was removed on September 20, 2000. The sump was constructed of concrete and measured 5' x 5' x 5'. The sump area was over-excavated and sidewall and bottom samples taken. The site was over-excavated to approximately 9' x 13' x 9'. The samples were analyzed for TPH by EPA method 418.1, BTEX by EPA method 8020 and total RCRA (8) metals.

5.6 Sump Closure

Based upon the location of the sumps within the groundwater plume, the removal of the predominance of the source materials, and the results of the sampling, Mr. Bill Olson with the NMOCD gave verbal approval for backfilling the excavations. A nutrient-rich slurry was added to the excavations for enhanced natural attenuation. Prior to using backfill material from the impoundment berm, the soil was sampled and segregated, so that the lowest chloride concentration soil could be used for sump backfilling.

6.0 MONITOR WELL INSTALLATION

6.1 Introduction

Due to Phase Separated Hydrocarbons (PSH) present in MW-5, on the east side of the Site, three additional monitor wells were installed in accordance with the work plan entitled "Proposed Groundwater Treatment and Disposal Plan, dated September 29, 1999", submitted to Mr. Wayne Price with the NMOCD. Semi-annual samples were taken from all monitor wells. Additionally, in the NMOCD letter dated September 19, 2000, regarding closure of the surface brine impoundments, the NMOCD required that an additional monitor well be placed in the area between the two impoundments. Due to space requirements, the monitor well could not be placed until the impoundments were closed. Additionally, Texaco decided to place an additional monitor well upgradient of the two impoundments.

6.2 Monitor Well Placement

Three monitor wells, MW-19, MW-20 and MW-21 were placed around MW-5 to further delineate PSH encountered in MW-5. These monitor wells were installed on

March 23-24, 2000. Monitor wells MW-22 and MW-23 were installed on December 19, 2000, to help define possible chloride impacts in the vicinity of the two closed surface impoundments.

6.3 Monitor Well Construction

The monitor wells were drilled by Scarborough Drilling Company, Lamesa, Texas, and constructed in accordance with industry accepted and EPA approved practices. The wells were completed with 4-inch schedule 40 PVC screw threaded screen and casing. The screen interval is approximately 20 feet in length and is placed into the upper fifteen (15) feet of the saturated portion of the aquifer. Drill cuttings from monitor well installations are stockpiled on plastic, covered and retained at the Site until disposal is arranged. Figure 2 presents the locations of the monitor wells. Appendix F presents monitor well completion diagrams.

7.0 SEMI-ANNUAL MONITOR WELL SAMPLING

7.1 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 were examined for PSH, and sampled on August 23-28, 2000. MW-22 and MW-23 were sampled on December 22, 2000. Prior sampling was performed on selected wells in May and June, 1997, and November, 1998. The prior sample results were summarized in the Final Investigation Report", July, 1997, and "Groundwater Plume Delineation, Texaco Exploration and Production, Inc., Former Eunice #1 (South) Gas Plant, Lea County, New Mexico", December 17, 1998. The groundwater potentiometric surface map is included as Figure 4.

7.2 Phase Separated Hydrocarbon (PSH) Assessment

Prior to sampling, all monitor 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. At the time of this monitoring event, the following wells exhibited PSH: TMW-2 (0.01'), MW-1 (2.07'), MW-2 (2.25'), MW-5 (5.78'), MW-20 (2.62') and MW-21 (0.01').

7.3 Groundwater Sampling and Analysis

On August 23-28, 2000, Highlander collected samples of groundwater from all monitor wells and water wells at the Site. MW-22 and MW-23 were sampled on December 22, 2000. 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. The pump was thoroughly decontaminated

between sampling events using a laboratory grade detergent, followed by rinsing with deionized water. The purged groundwater was taken to the oil-water sump at the North Eunice Gas Plant plant for disposal.

Following well purging, groundwater samples were collected using dedicated disposable PVC well bailers and monofilament line. The 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 8020, 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 Tables 1 and 2. As in previous reports, BTEX levels were the highest in the vicinity of MW-11 and MW-12 in the western half of the Site. Elevated BTEX levels were also observed in the southwest corner of the Site at MW-9, possibly due to an off-site source. Chloride levels were mainly elevated in the northeast portion of the site, with significant increases in chloride concentrations in the vicinity of the now closed surface impoundments. It does appear, however, with upgradient concentrations of 5700 mg/l and 5000 mg/l at MW-17 and MW-18 respectively, that there may be some offsite influence on chloride concentrations. The chloride levels in MW-7, MW-15 and MW-16 do indicate that the high chloride plume at the closed surface impoundments is somewhat contained in the area of the impoundments at this time. Isopleth maps for chloride and benzene are included as Figures 5 and 6 respectively.

Arsenic was found at or above the WQCC drinking water standard of 0.1 mg/l in monitor wells, TMW-6, MW-11 and MW-12, with the highest reported level of 0.47 mg/l in MW-12. Barium was reported above the WQCC drinking water standard of 1.0 mg/l in monitor wells TMW-3, TMW-5, TMW-6, MW-9, MW-10, MW-11, MW-12, MW-13 and MW-19, with the highest concentration being 11 mg/l in monitor wells, MW-9 and MW-11. Chromium showed up in one monitor well (MW-16) at 0.16 mg/l. This reading may be due to laboratory error, considering no other chromium has ever showed up in any of the monitor wells tested. As with the case of the chromium, selenium showed up at 0.1 mg/l in MW-23.

8.0 SOIL STOCKPILE SAMPLING AND DISPOSITION

8.1 Introduction

Texaco had onsite approximately 4800 cubic yards of soil stockpiled at the Site. The soil stockpiles were generated at the plant during general spills or soil excavated from the upgrades at the plant. The soils were placed in the northeast corner of the plant

and stockpiled. In addition, impacted soil from each sump area was excavated and placed with the remaining stockpile located northeast of the plant.

8.2 Soil Stockpile Sampling

During the inspection of the stockpiles, some of the piles were labeled and a description and location, supplied by Dynegy, of the stockpiles were documented on a log sheet. The log sheet is shown in Appendix D. In Highlander's telephone conference with NMOCD, it was agreed that the stockpiles identified in the log sheet would not be sampled for hazardous characterization, due to process knowledge. The remaining unidentified stockpiles were sampled for evaluation for TCLP volatiles by method S 8260B, semi-volatiles by method E 8270C, TCLP metals by method S 6010B, reactivity by method S 7.3, corrosivity method S 1110, ignitability by method SW-846 Ch 7.1 and total metals by method EPA SW-846 6010B, 3050B, 7471A.

On September 7, 2000, Highlander collected composite soil samples of all. A figure and the results of the sampling on the soil stockpiles are enclosed in Appendix D.

8.3 Soil Shredding

Texaco contracted Environmental Plus, Inc., Eunice New Mexico, to process the piles through a shredder to segregate caliche stone. The soil was then transported to Texaco's permitted landfarm. Environmental Plus, Inc. (EPI) began soil shredding on October 2, 2000 and completed shredding on October 23, 2000. An approximate total of 2,870 cubic yards of soil was shredded. An additional 1,650 cubic yards was not shredded. Approximately 4,520 cubic yards of soil were removed and transported to the Texaco landfarm. An additional 300 cubic yards of rock were placed into the backfill for the south surface impoundment.

9.0 INSTALLATION OF PSH RECOVERY SYSTEM

9.1 Introduction

PSH was observed on groundwater on the east side of the Site in the vicinity of MW-5. Additional monitor wells MW-19, MW-20 and MW-21 were installed to further define this impact.

9.2 Installation of PSH Recovery System

In accordance with the work plan entitled "Proposed Groundwater Treatment and Disposal Plan, dated September 29, 1999, on December 18, 2000, Highlander personnel began installation of two 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. Specifications for the Ferret Separation Pump are included in Appendix G.

10.0 RECOMMENDATIONS

1. All sumps with the exception of the East Sump have been investigated by the placement of boreholes to determine depths and concentrations of impact. During the next phase of investigation, it is recommended that a boring be placed in the vicinity of the East Sump to further investigate sub-surface impacts.

2. Now that equipment has been decommissioned and some equipment removed for better access, the additional phases of the work plan entitled "Proposed Groundwater Treatment and Disposal Plan," dated September 29, 1999, should be implemented, including placement of approximately 4 recovery wells, and further delineation of PSH and dissolved phase hydrocarbons in the vicinity of MW-1, MW-2, MW-10, MW-11 and MW-12. Once the recovery well placement and further delineation have been performed, remedial systems will be placed and initiated.

3. The chloride plume on the east side of the Site, in the vicinity of the closed impoundments will be further investigated and a plan for containment will be evaluated.

4. Semi-annual sampling of all monitor wells will be continued, and a summary of all activities provided to the NMOCD in the first quarter of 2002.

HIGHLANDER ENVIRONMENTAL CORP.

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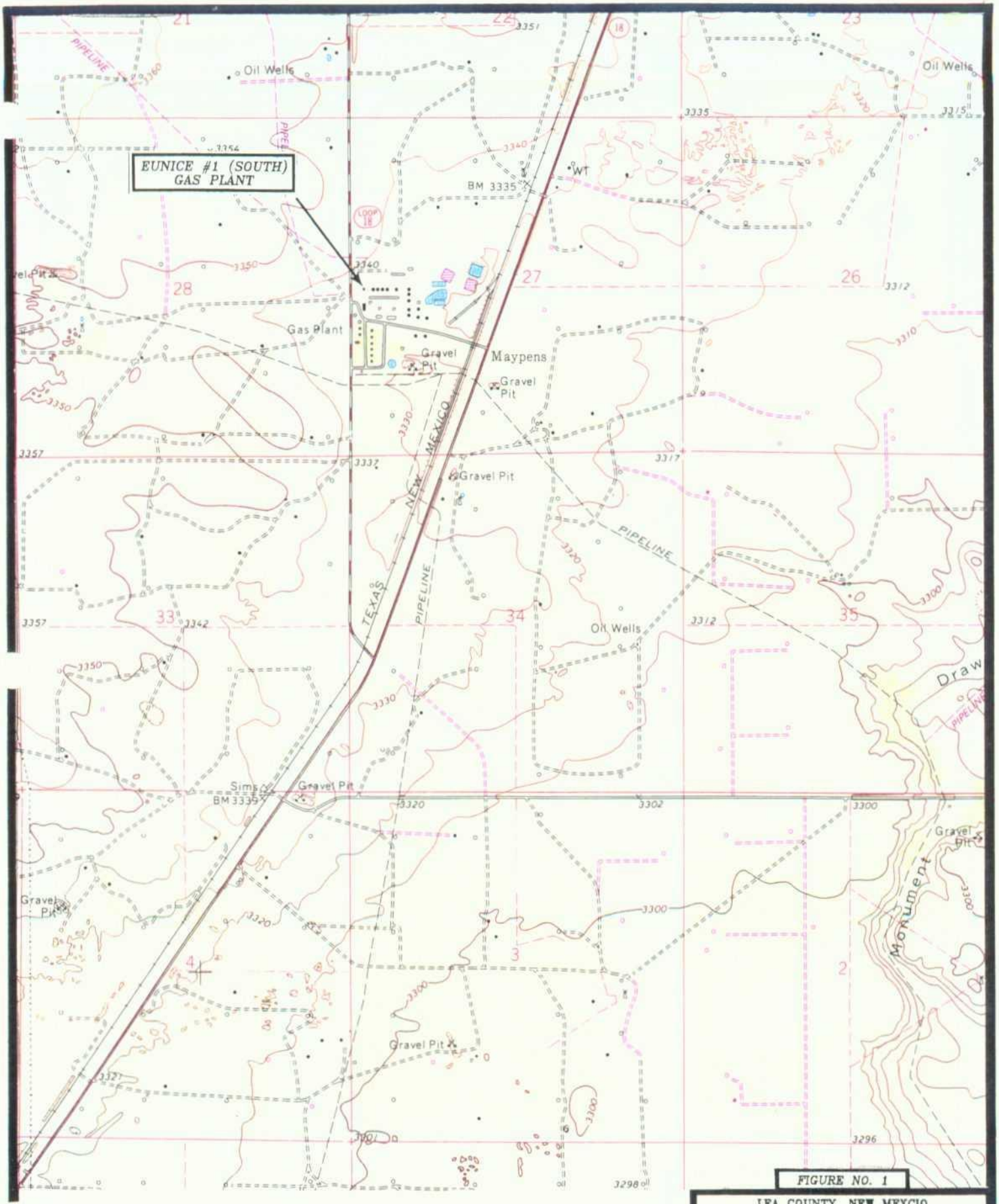
FIGURES



TAKEN FROM U.S.G.S.
EUNICE, NM
7.5' QUADRANGLE

SCALE: 1"=2,000'

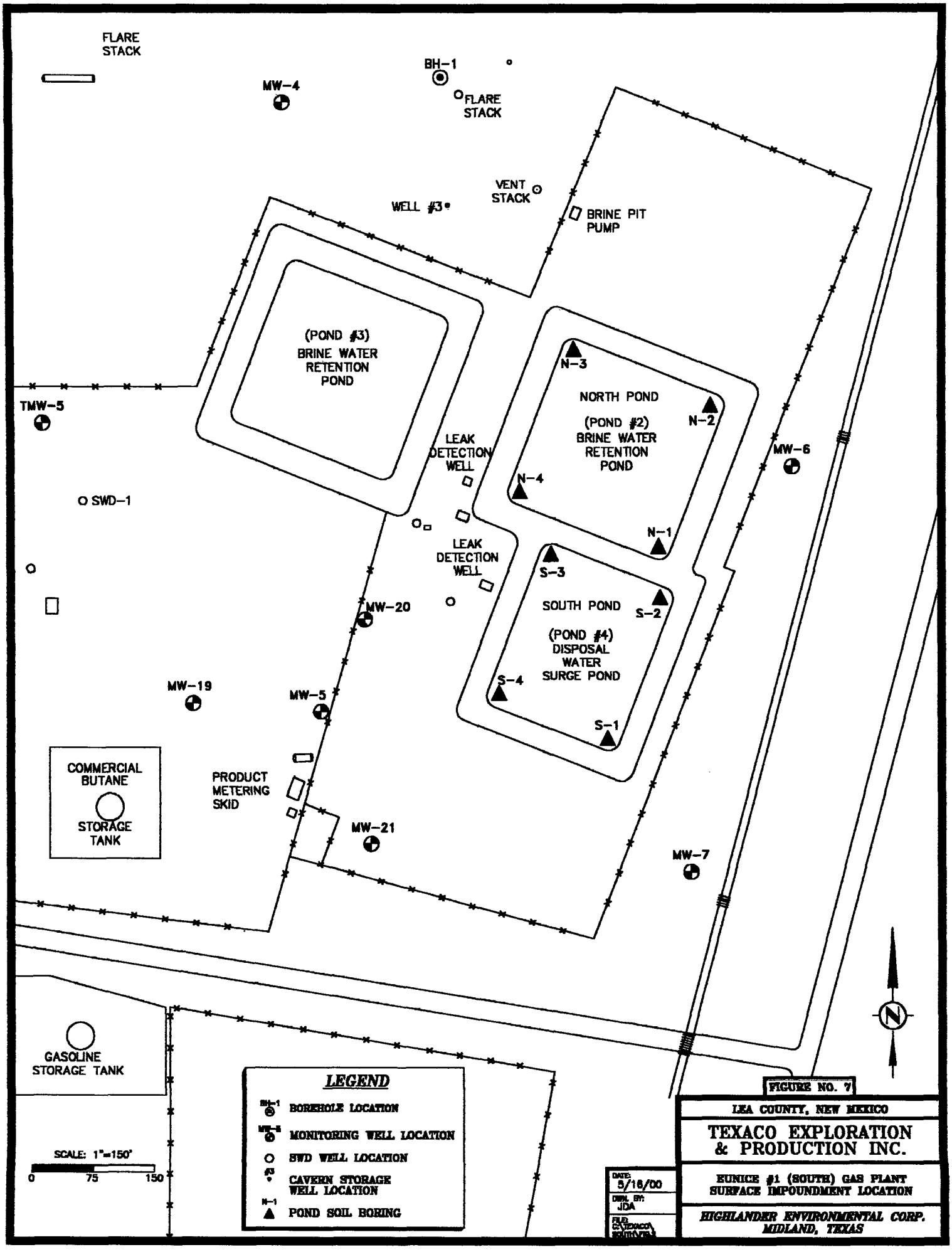
FIGURE NO. 1

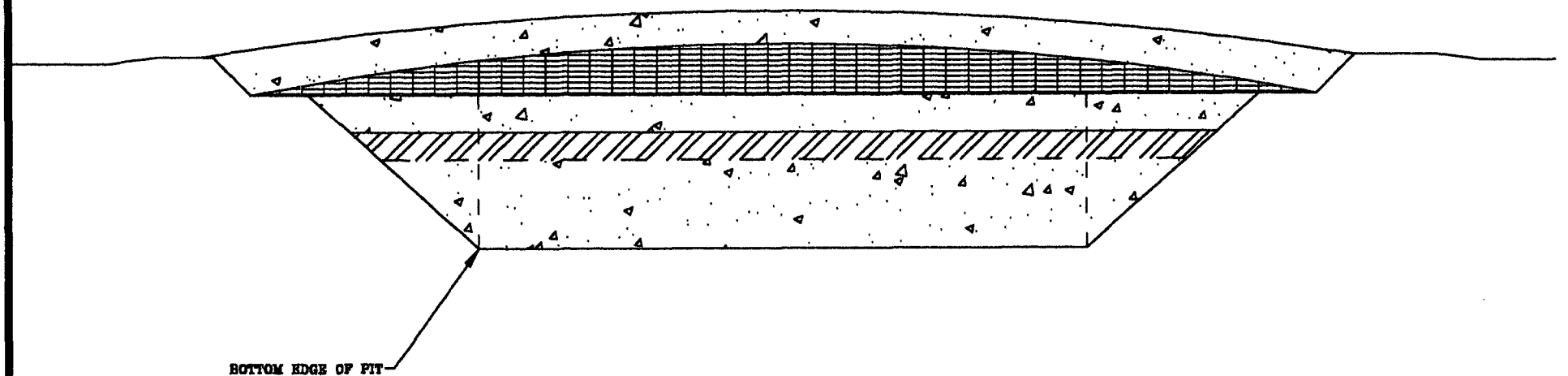
LEA COUNTY, NEW MEXCIO

TEXACO
EXPLORATION & PRODUCTION

TOPOGRAPHIC
MAP

HIGHLANDER ENVIRONMENTAL
MIDLAND, TEXAS


FLARE STACK
BH-1
MW-4
FLARE STACK
VENT STACK
WELL #3
BRINE PIT PUMP
(POND #3) BRINE WATER RETENTION POND
NORTH POND (POND #2) BRINE WATER RETENTION POND
N-3
N-2
N-4
N-1
TMW-5
LEAK DETECTION WELL
MW-6
SWD-1
LEAK DETECTION WELL
S-3
SOUTH POND (POND #4) DISPOSAL WATER SURGE POND
S-2
S-4
S-1
MW-20
MW-19
MW-5
COMMERCIAL BUTANE STORAGE TANK
PRODUCT METERING SKID
MW-21
MW-7
GASOLINE STORAGE TANK
LEGEND
BOREHOLE LOCATION
MONITORING WELL LOCATION
SWD WELL LOCATION
CAVERN STORAGE WELL LOCATION
POND SOIL BORING
SCALE: 1"=150'
0
75
150
N
FIGURE NO. 7
LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION & PRODUCTION INC.
EUNICE #1 (SOUTH) GAS PLANT SURFACE IMPOUNDMENT LOCATION
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS
DATE: 5/16/00
DWN. BY: JDA



CLAY (1.0'–2.0' THICK)

BACKFILL MATERIAL

PLASTIC LINER

FIGURE NO. 8

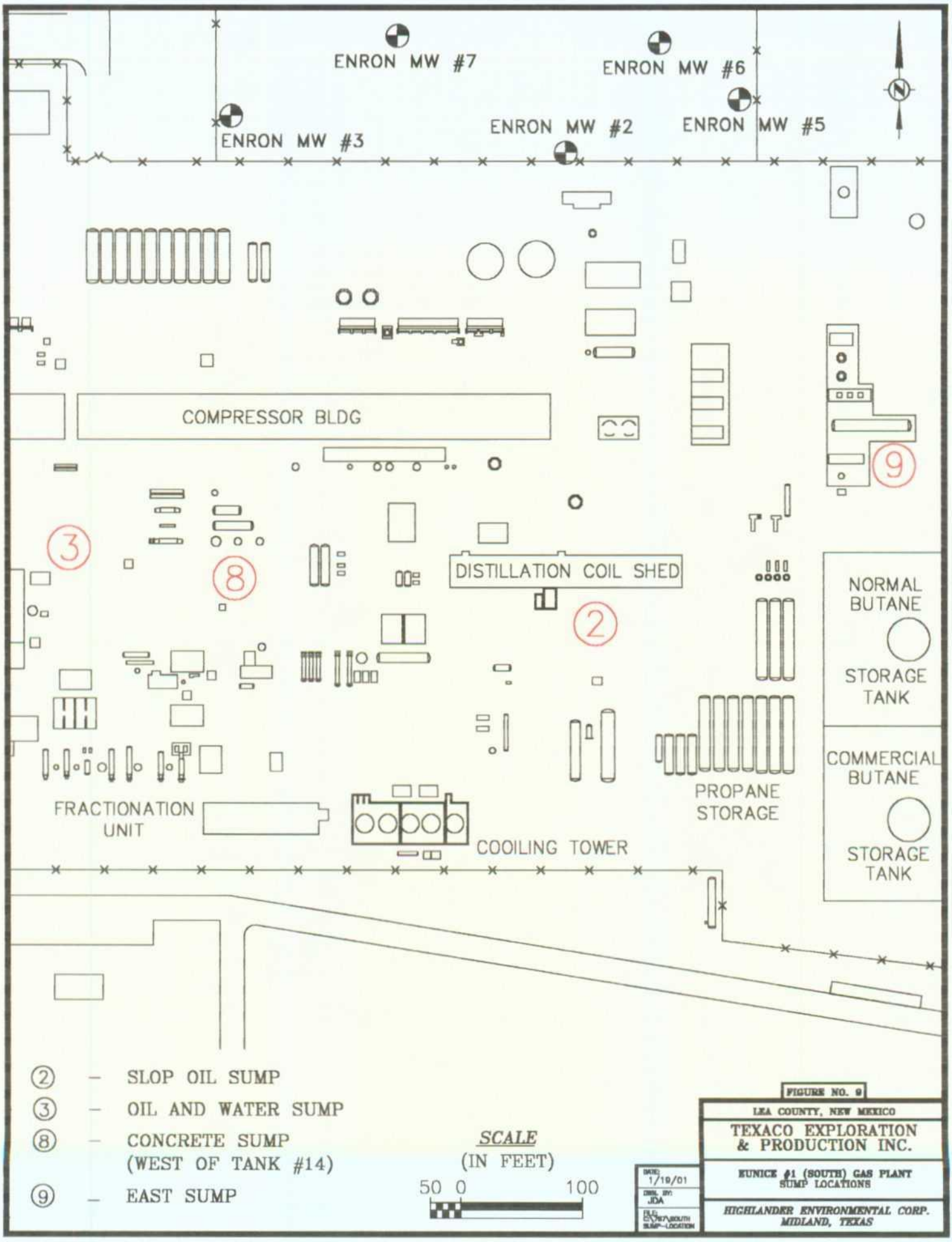
LEA COUNTY, NEW MEXICO

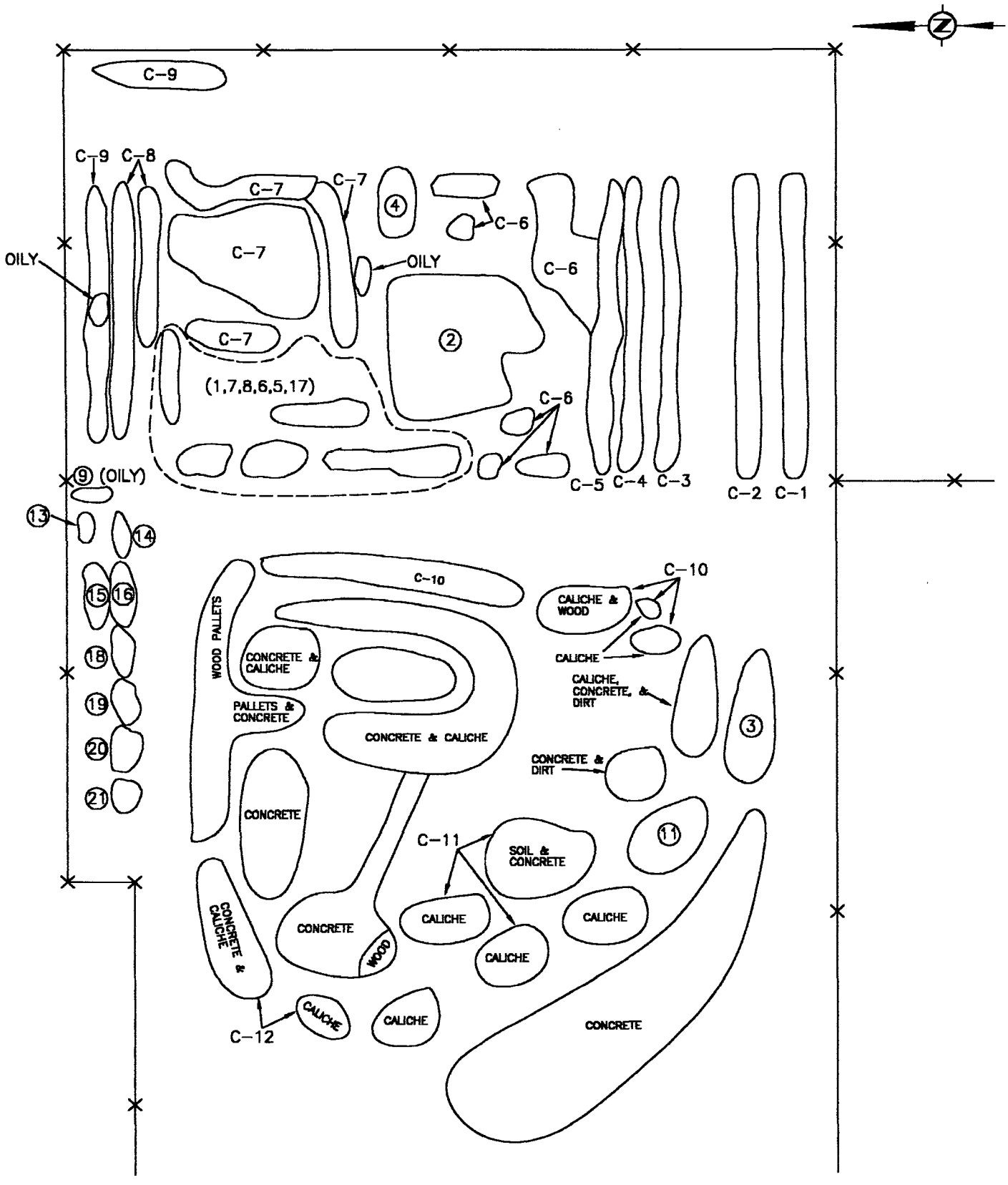
TEXACO EXPLORATION & PRODUCTION INC.

EUNICE #1 (SOUTH) GAS PLANT
TYPICAL CROSS SECTION
OF IMPOUNDMENT CLAY CAPPING

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 1/19/01
DWN. BY: JDA
FILE: C:\767\SOUTH POND-CROSS


ENRON MW #7
ENRON MW #6
ENRON MW #3
ENRON MW #2
ENRON MW #5
N
COMPRESSOR BLDG
9
3
8
DISTILLATION COIL SHED
2
NORMAL BUTANE STORAGE TANK
COMMERCIAL BUTANE STORAGE TANK
FRACTIONATION UNIT
COOILING TOWER
PROPANE STORAGE
② – SLOP OIL SUMP
③ – OIL AND WATER SUMP
⑧ – CONCRETE SUMP (WEST OF TANK #14)
⑨ – EAST SUMP
SCALE (IN FEET)
50 0 100
FIGURE NO. 9
LEA COUNTY, NEW MEXICO
TEXACO EXPLORATION & PRODUCTION INC.
EUNICE #1 (SOUTH) GAS PLANT SUMP LOCATIONS
HIGHLANDER ENVIRONMENTAL CORP. MIDLAND, TEXAS
DATE: 1/19/01
DWN. BY: JDA
FILE: C:\767\SOUTH SUMP-LOCATION



C-1 = COMPOSITE SAMPLE LOCATION

(11) = STOCK PILE NUMBER

FIGURE NO. 10

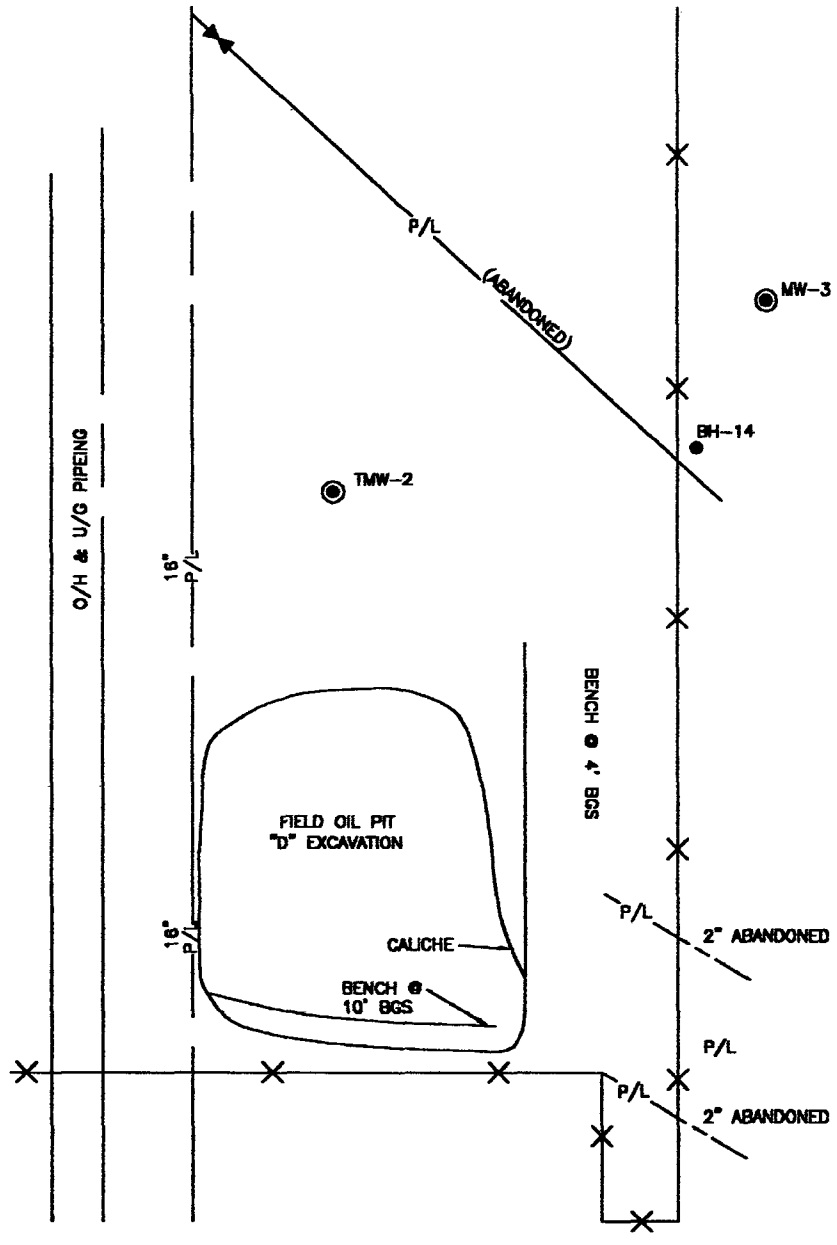
LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION INC.

SOUTH PLANT SOIL STOCK PILES
SAMPLED 9/7/00

DATE: 9/8/00
DRWN. BY: JDA
FILE: C:\TEXACO\787\SOUTH\STOCKPILE

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



LEGEND

- BOREHOLE LOCATION
- MONITOR WELL LOCATION

GRAPHIC SCALE

15 10 5 0 15

(IN FEET)
1"=15'

DATE: 4/25/00
DWN. BY: JDA
FILE: C:\TEXACO\1766 POND2

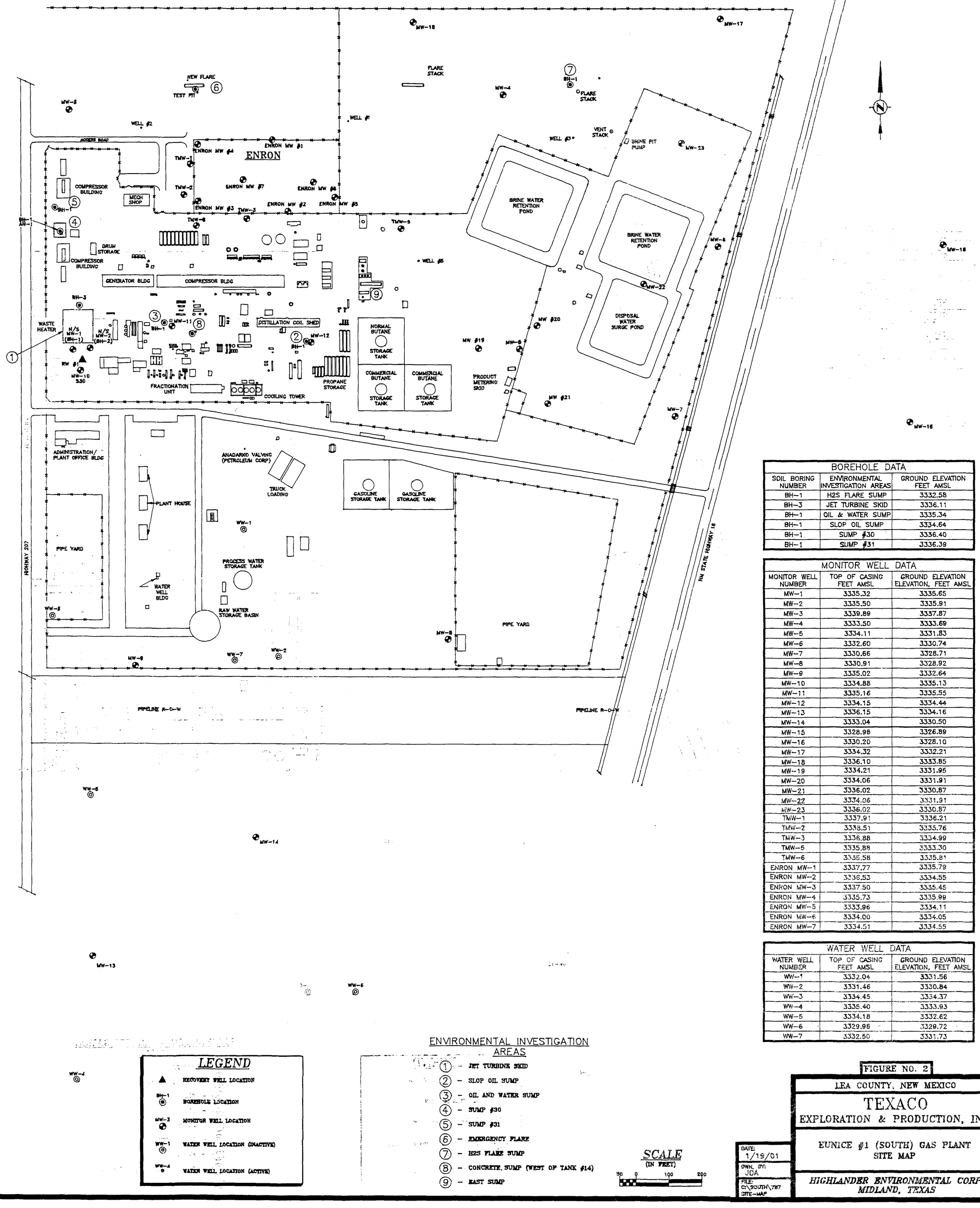
FIGURE NO. 3

LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION, INC.

SITE DRAWING

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



BOREHOLE DATA

SOIL BORING NUMBER	ENVIRONMENTAL INVESTIGATION AREAS	GROUND ELEVATION FEET AMSL
BH-1	H2S FLARE SUMP	3332.58
BH-3	JET TURBINE SKID	3336.11
BH-1	OIL & WATER SUMP	3335.34
BH-1	SLOP OIL SUMP	3334.64
BH-1	SUMP #30	3336.40
BH-1	SUMP #31	3336.39

MONITOR WELL DATA

MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION ELEVATION, FEET AMSL
MW-1	3335.32	3335.65
MW-2	3335.50	3335.91
MW-3	3339.89	3337.87
MW-4	3333.50	3333.69
MW-5	3334.11	3331.83
MW-6	3332.60	3330.74
MW-7	3330.66	3328.71
MW-8	3330.91	3328.92
MW-9	3335.02	3332.64
MW-10	3334.88	3335.13
MW-11	3335.16	3335.55
MW-12	3334.15	3334.44
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	3336.02	3330.87
MW-22	3334.06	3331.91
MW-23	3336.02	3330.87
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 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	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

LEGEND

- ▲ RECOVERY WELL LOCATION
- BH-1 ◉ BOREHOLE LOCATION
- MW-3 ◕ MONITOR WELL LOCATION
- WW-1 ◎ WATER WELL LOCATION (INACTIVE)
- WW-4 ◎ WATER WELL LOCATION (ACTIVE)

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

SCALE (IN FEET)
50 0 100 200

DATE: 1/19/01
DWN. BY: JDA
FILE: C:\SOUTH\787 SITE-MAP

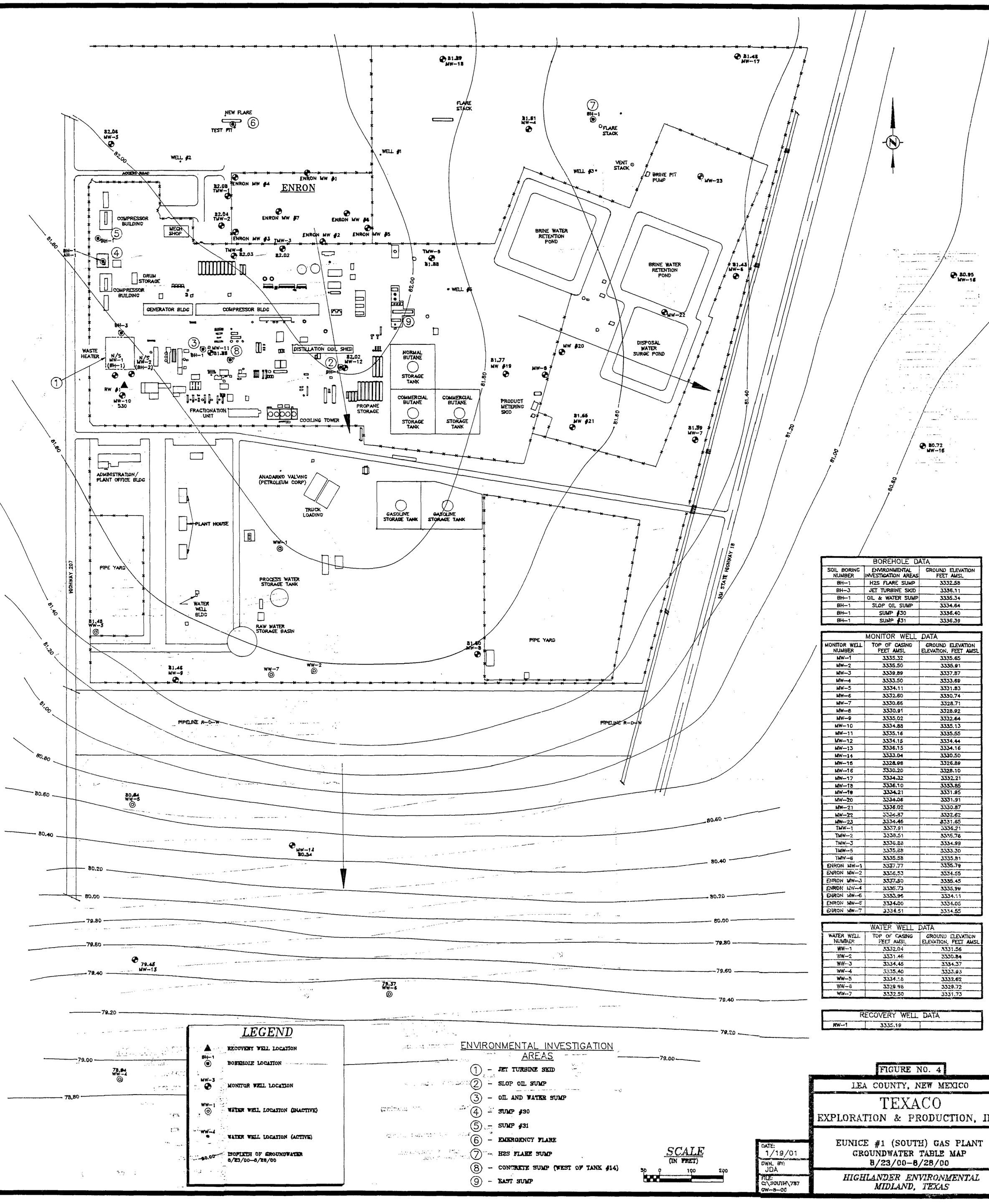
FIGURE NO. 2

LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION, INC.

EUNICE #1 (SOUTH) GAS PLANT
SITE MAP

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



BOREHOLE DATA

SOIL BORING NUMBER	ENVIRONMENTAL INVESTIGATION AREAS	GROUND ELEVATION FEET AMSL
BH-1	H2S FLARE SUMP	3332.58
BH-3	JET TURBINE SKID	3336.11
BH-1	OIL & WATER SUMP	3335.34
BH-1	SLOP OIL SUMP	3334.64
BH-1	SUMP #30	3336.40
BH-1	SUMP #31	3336.39

MONITOR WELL DATA

MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION ELEVATION, FEET AMSL
MW-1	3335.32	3335.65
MW-2	3335.50	3335.91
MW-3	3338.89	3337.87
MW-4	3333.50	3333.69
MW-5	3334.11	3331.83
MW-6	3332.60	3330.74
MW-7	3330.66	3328.71
MW-8	3330.91	3328.92
MW-9	3335.02	3332.64
MW-10	3334.88	3335.13
MW-11	3335.16	3335.55
MW-12	3334.15	3334.44
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	3336.02	3330.87
MW-22	3336.87	3332.62
MW-23	3334.46	3331.65
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	3336.73	3335.99
ENRON MW-6	3333.96	3334.11
ENRON MW-8	3334.00	3334.05
ENRON MW-7	3334.51	3334.55

WATER WELL DATA

WATER WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION 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	3332.62
WW-6	3329.98	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA

RW-1	3335.18	

LEGEND

- RECOVERY WELL LOCATION
- BH-1 — BOREHOLE LOCATION
- MW-3 — MONITOR WELL LOCATION
- WW-1 — WATER WELL LOCATION (INACTIVE)
- WW-4 — WATER WELL LOCATION (ACTIVE)
- 80.00 — ISOPLETH OF GROUNDWATER 8/23/00-8/28/00

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

SCALE (IN FEET)

50 0 100 200

DATE: 1/19/01
DWN. BY: JDA
FILE: C:\SOUTH\787 GW-8-00

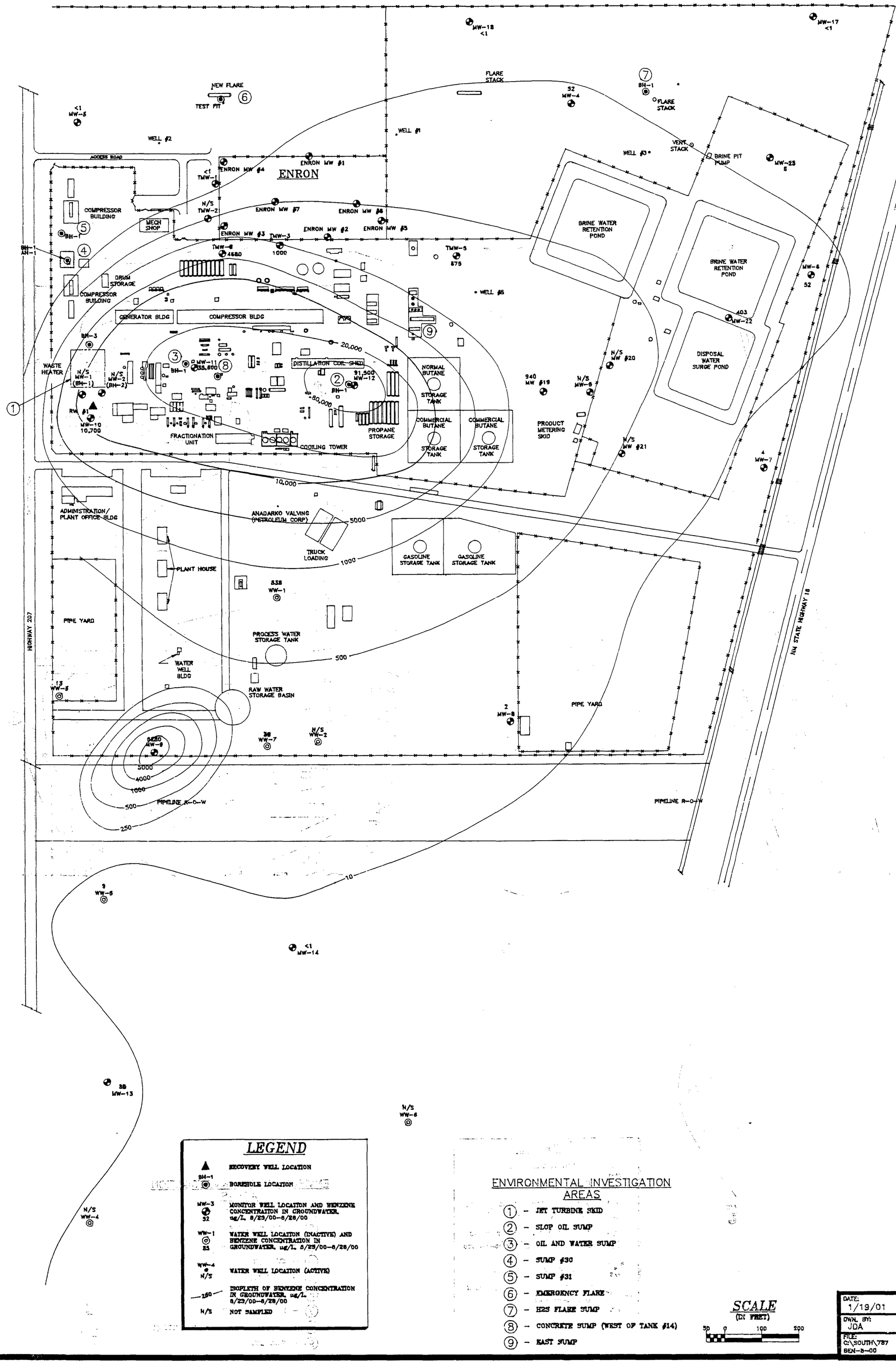
FIGURE NO. 4

LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION, INC.

EUNICE #1 (SOUTH) GAS PLANT
GROUNDWATER TABLE MAP
8/23/00-8/28/00

HIGHLANDER ENVIRONMENTAL
MIDLAND, TEXAS



BOREHOLE DATA

SOIL BORING NUMBER	ENVIRONMENTAL INVESTIGATION AREAS	GROUND ELEVATION FEET AMSL
BH-1	H2S FLARE SUMP	3332.58
BH-3	JET TURBINE SKID	3336.11
BH-1	OIL & WATER SUMP	3335.34
BH-1	SLOP OIL SUMP	3334.64
BH-1	SUMP #30	3336.40
BH-1	SUMP #31	3336.39

MONITOR WELL DATA

MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION ELEVATION, FEET AMSL
MW-1	3335.32	3335.65
MW-2	3335.50	3335.91
MW-3	3339.89	3337.87
MW-4	3333.50	3333.69
MW-5	3334.11	3331.83
MW-6	3332.60	3330.74
MW-7	3330.66	3328.71
MW-8	3330.91	3328.92
MW-9	3335.02	3332.64
MW-10	3334.88	3335.13
MW-11	3335.16	3335.55
MW-12	3334.15	3334.44
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	3336.02	3330.87
MW-22	3334.87	3332.62
MW-23	3334.45	3331.85
TMW-1	3337.91	3336.21
TMW-2	3338.51	3336.76
TMW-3	3336.88	3334.99
TMW-5	3335.88	3333.30
TMW-6	3336.56	3335.81
ENRON MW-1	3337.77	3336.79
ENRON MW-2	3336.63	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3336.73	3336.99
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 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	

LEGEND

- ▲ RECOVERY WELL LOCATION
- BH-1 ◉ BOREHOLE LOCATION
- MW-3 ◉ 32 MONITOR WELL LOCAITON AND BENZENE CONCENTRATION IN GROUNDWATER, ug/L, 8/23/00-8/28/00
- WW-1 ◎ 35 WATER WELL LOCAITON (INACTIVE) AND BENZENE CONCENTRATION IN GROUNDWATER, ug/L, 8/23/00-8/28/00
- WW-4 ● N/S WATER WELL LOCATION (ACTIVE)
- —250— ISOPLETH OF BENZENE CONCENTRATION IN GROUNDWATER, ug/L, 8/23/00-8/28/00
- N/S NOT SAMPLED

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

SCALE (IN FEET) 50 0 100 200

DATE: 1/19/01
DWN. BY: JDA
FILE: C:\SOUTH\787 BEN-8-00

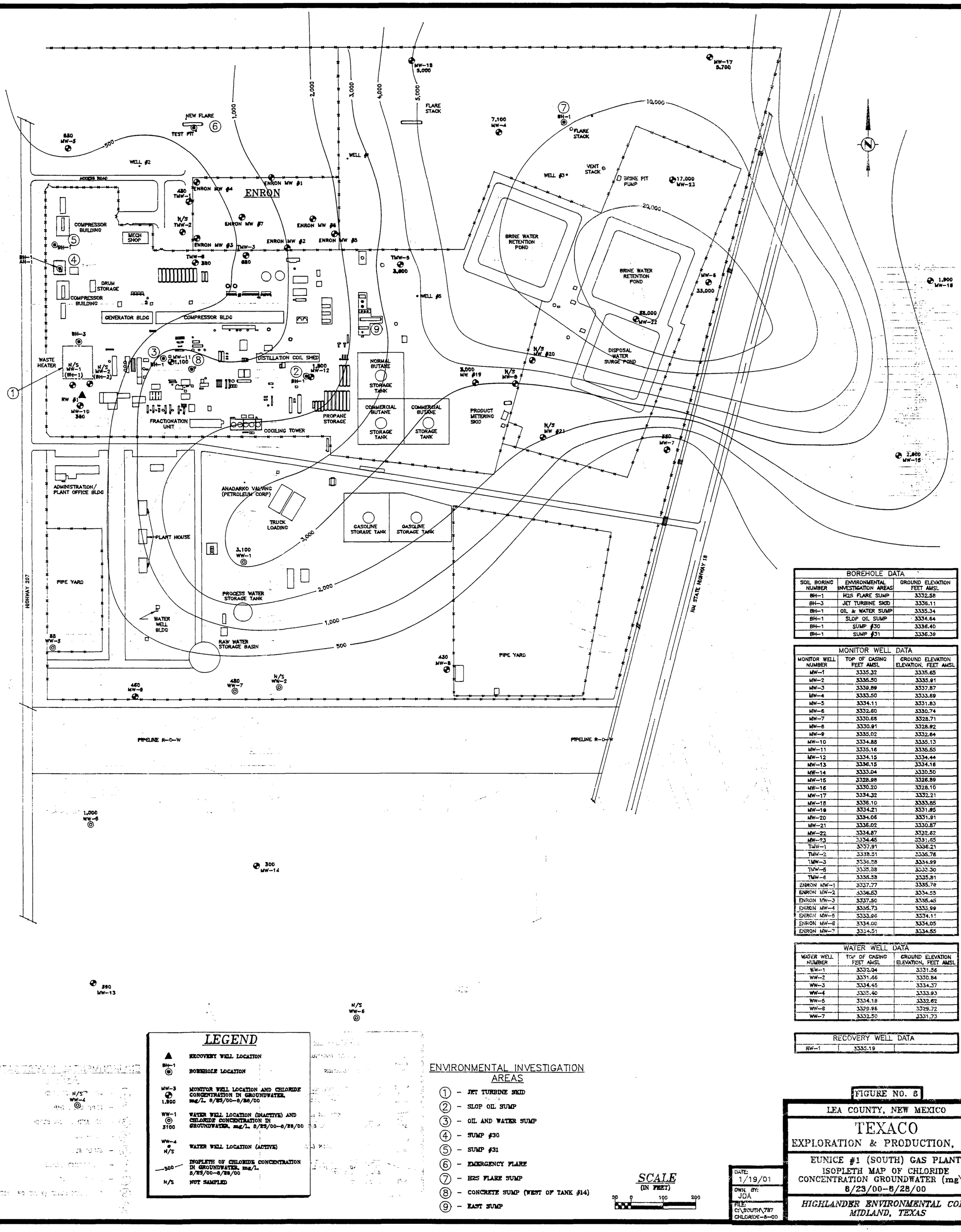
FIGURE NO. 5

LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION, INC.

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF BENZENE
CONCENTRATION GROUNDWATER (ug\L)
8/23/00-8/28/00

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS



BOREHOLE DATA		
SOIL BORING NUMBER	ENVIRONMENTAL INVESTIGATION AREAS	GROUND ELEVATION FEET AMSL
BH-1	H2S FLARE SUMP	3332.58
BH-3	JET TURBINE SKID	3336.11
BH-1	OIL & WATER SUMP	3335.34
BH-1	SLOP OIL SUMP	3334.64
BH-1	SUMP #30	3336.40
BH-1	SUMP #31	3336.39

MONITOR WELL DATA		
MONITOR WELL NUMBER	TOP OF CASING FEET AMSL	GROUND ELEVATION ELEVATION, FEET AMSL
MW-1	3335.32	3335.65
MW-2	3335.50	3335.91
MW-3	3339.89	3337.87
MW-4	3333.50	3333.69
MW-5	3334.11	3331.83
MW-6	3332.60	3330.74
MW-7	3330.66	3328.71
MW-8	3330.91	3328.92
MW-9	3335.02	3332.64
MW-10	3334.88	3335.13
MW-11	3335.16	3336.55
MW-12	3334.15	3334.44
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	3336.02	3330.87
MW-22	3334.87	3332.82
MW-23	3334.45	3331.85
TMW-1	3337.91	3336.21
TMW-2	3338.31	3336.76
TMW-3	3336.58	3334.99
TMW-5	3335.88	3333.30
TMW-6	3336.58	3335.81
ENRON MW-1	3337.77	3335.79
ENRON MW-2	3336.63	3334.55
ENRON MW-3	3337.50	3335.45
ENRON MW-4	3335.73	3333.99
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 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	3332.62
WW-6	3329.96	3329.72
WW-7	3332.50	3331.73

RECOVERY WELL DATA		
RW-1	3335.19	

LEGEND

- ▲ RW-1 — RECOVERY WELL LOCATION
- ◉ BH-1 — BOREHOLE LOCATION
- ◉ MW-3 1,900 — MONITOR WELL LOCATION AND CHLORIDE CONCENTRATION IN GROUNDWATER, mg/L, 8/23/00–8/28/00
- ◎ WW-1 3100 — WATER WELL LOCATION (INACTIVE) AND CHLORIDE CONCENTRATION IN GROUNDWATER, mg/L, 8/23/00–8/28/00
- ● WW-4 N/S — WATER WELL LOCATION (ACTIVE)
- —500— — ISOPLETH OF CHLORIDE CONCENTRATION IN GROUNDWATER, mg/L, 8/23/00–8/28/00
- N/S — NOT SAMPLED

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

SCALE (IN FEET)

0 100 200

DATE: 1/19/01
DWN. BY: JDA
FILE: C:\SOUTH\787 CHLORIDE-8-00

FIGURE NO. 8

LEA COUNTY, NEW MEXICO

TEXACO
EXPLORATION & PRODUCTION, INC.

EUNICE #1 (SOUTH) GAS PLANT
ISOPLETH MAP OF CHLORIDE CONCENTRATION GROUNDWATER (mg\L)
8/23/00–8/28/00

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

PHOTOGRAPHS

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

1. View of slop oil sump

2. Removal of slop oil sump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

3. Removal of slop oil sump

4. Removal of slop oil sump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

5. Removal of slop oil sump

6. Removal of slop oil sump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

7. View of oil and water sump

8. View of oil and water sump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

9. Removal of oil and water sump

10. Removal of oil and water sump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

11. Oil and water sump – bottom soil after removal

12. Oil and water sump excavation

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

13. Drain sump (concrete sump) – Borehole installation

14. Drain sump (concrete sump) – Borehole installation

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

15. Drain sump (concrete sump) - removal

16. Drain sump (concrete sump) - removal

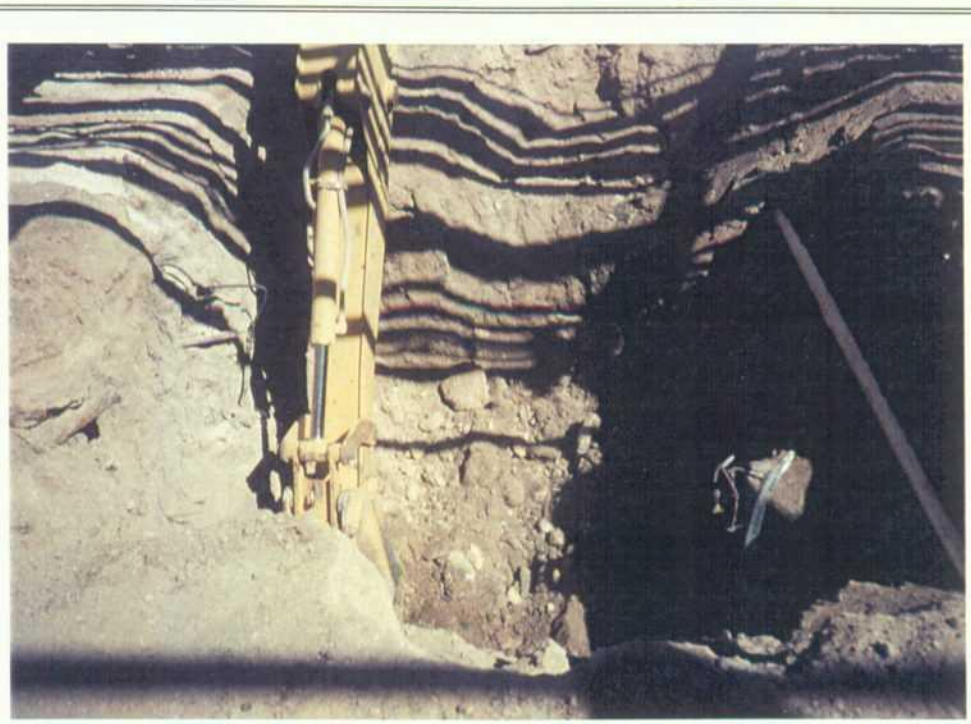
PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

17. Drain sump (concrete sump) - removal

18. Soil excavation of drain sump (concrete sump)

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

19. Soil excavation of drain sump (concrete sump)



20. Soil excavation of drain sump (concrete sump)

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

21. Soil excavation of drain sump (concrete sump)

22. Soil excavation of drain sump (concrete sump)

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

23. View of east sump

24. East sump - removal

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

25. East sump - removal

26. East sump excavation

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

27. East sump excavation

28. View of soil stockpile shredding.

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

29. View of soil stockpile shredding.

30. View of soil stockpile shredding.

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

31. View of soil stockpile shredding.

32. View of soil stockpile shredding.

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

33. South impoundment – bottom sludge and sediment

34. South impoundment – removal of sludge and sediment

35. View of south impoundment – removal of sludge and sediment

36. View of south impoundment – removal of sludge and sediment

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

37. North impoundment – placement of sludge and sediment

38. North impoundment –placement of sludge and sediment material

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

39. South impoundment – backfilling

40. South impoundment – installation of plastic liner

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

41. North impoundment – installation of plastic liner

42. North impoundment – installation of plastic liner

43. South impoundment – clay capping preparation

44. North impoundment – clay capping preparation

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

45. South impoundment – clay capping

46. South impoundment – clay capping

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

47. South impoundment – clay capping

48. North impoundment – clay capping

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

49. View of north impoundment – clay capping

50. View of south and north impoundments– clay capping

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

51.View of north impoundment –final capping, placed topsoil over clay

52. View of south impoundment – final capping, placed topsoil over clay

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

53. View of MW-5 – Installation of the Ferret Separator Pump

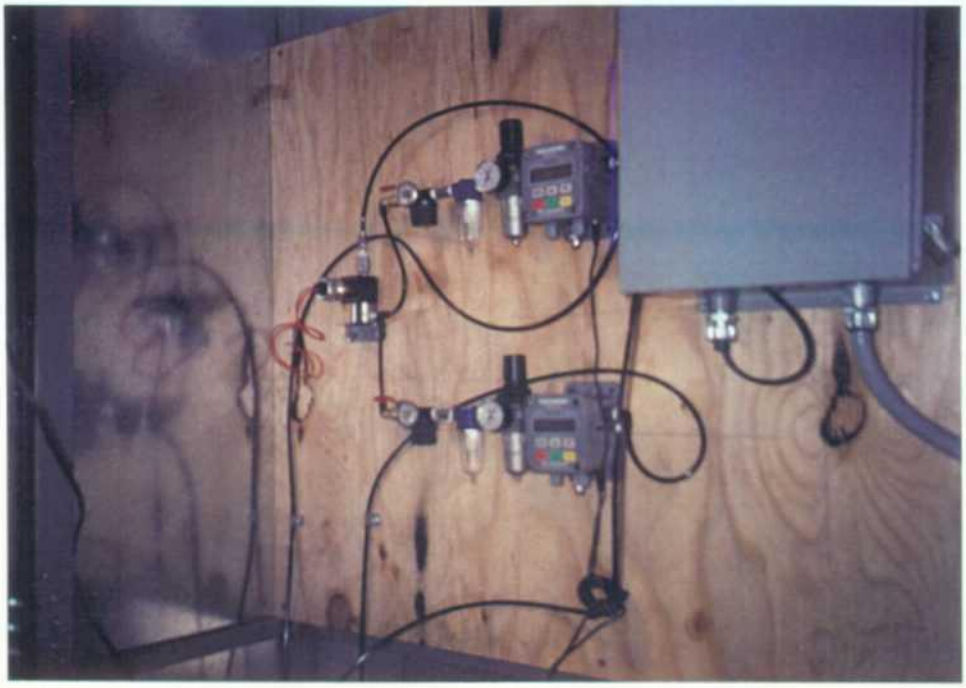
54. View of MW-20 - Installation of the Ferret Separator Pump

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.

55. Product storage tank for Ferret Separation Pumps

56. Shed for Ferret pump controllers and compressor

PHOTOGRAPHIC DOCUMENTATION
TEXACO EXPLORATION & PRODUCTION, INC.,
EUNICE #1 (SOUTH) GAS PLANT, LEA COUNTY, NM.



57. View of Ferret pump controllers

58. MW-5, MW-20 and controller shed

TABLES

Table 1: **Results of Semi-annual Monitoring Performed Aug. 23 - 28, 2000**
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Summary of Benzene, Toluene, Ethylbenzene and Xylene Analysis of Groundwater Samples
Lea County, New Mexico

Volatiles:

Well Number	Sample Date	Benzene mg/L	Toluene mg/L	Ethylbenzene mg/L	Xylene mg/L	Total BTEX mg/L
TMW-1	8/24/00	<0.005	<0.005	<0.005	<0.005	<0.005
TMW-3	8/25/00	1.02	<0.005	1.01	0.011	2.04
TMW-5	8/25/00	0.675	<0.005	0.399	0.056	1.13
TMW-6	8/25/00	4.68	0.01	0.986	0.251	5.93
MW-3	8/24/00	<0.005	<0.005	<0.005	<0.005	<0.005
MW-4	8/24/00	0.052	<0.001	<0.001	<0.001	0.052
MW-6	8/24/00	0.012	<0.001	<0.001	<0.001	0.012
MW-7	8/24/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	8/23/00	0.002	<0.001	<0.001	<0.001	0.002
MW-9	8/25/00	5.28	0.474	0.453	0.411	6.62
MW-10	8/25/00	10.7	0.485	0.731	0.678	12.6
MW-11	8/25/00	35.6	3.15	0.728	0.487	39.9
MW-12	8/25/00	91.5	62.4	4.09	7.04	165
MW-13	8/23/00	0.085	<0.001	0.004	0.001	0.09
MW-14	8/23/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW-15	8/23/00	0.004	<0.001	<0.001	<0.001	0.004
MW-16	8/23/00	<0.005	<0.005	<0.005	<0.005	<0.005
MW-17	8/24/00	<0.005	<0.005	<0.005	<0.005	<0.005
MW-18	8/24/00	<0.005	<0.005	<0.005	<0.005	<0.005
MW-19	8/28/00	0.94	0.007	0.073	0.049	1.07
MW-22	12/22/00	0.403	0.024	0.022	0.009	0.457
MW-23	12/22/00	0.006	0.001	<0.001	<0.001	0.007
WW-1	8/28/00	0.838	0.007	0.054	0.027	0.926
WW-3	8/28/00	0.013	0.006	0.006	0.004	0.03
WW-5	8/28/00	0.009	<0.005	<0.005	<0.005	0.009
WW-7	8/28/00	0.039	0.02	0.094	0.065	0.218

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes volatile organic analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below the analytical test method detection limit

Table 2: **Results of Semi-annual Monitoring Performed Aug. 23 - 28, 2000**
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples
Lea County, New Mexico

Metals:

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
TMW-1	8/24/00	<0.10	0.58	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	430	1,300
TMW-3	8/25/00	<0.01	2.6	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	680	2,000
TMW-5	8/25/00	0.05	1.1	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	3,600	5,800
TMW-6	8/25/00	0.13	2.6	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	380	1,400
MW-3	8/24/00	<0.10	0.15	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	530	1,400
MW-4	8/24/00	<0.10	0.15	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	7,100	13,000
MW-6	8/24/00	<0.10	<0.10	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	33,000	54,000
MW-6	11/28/00	NA	NA	NA	NA	NA	NA	NA	NA	16,000	NA
MW-7	8/24/00	<0.10	0.1	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	380	1,900
MW-8	8/23/00	<0.10	<0.10	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	430	1,500
MW-9	8/25/00	<0.01	11	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	460	2,000
MW-10	8/25/00	0.03	7.5	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	360	1,300
MW-11	8/25/00	0.1	11	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	1,100	3,700
MW-12	8/25/00	0.47	2.6	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	1,500	4,700
MW-13	8/23/00	<0.10	1.4	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	390	1,200
MW-14	8/23/00	<0.10	<0.10	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	300	1,100
MW-15	8/23/00	<0.10	<0.10	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	2,600	5,500
MW-16	8/23/00	<0.10	<0.10	<0.01	0.16	<0.05	<0.0002	<0.05	<0.05	1,900	4,100
MW-17	8/24/00	<0.10	<0.10	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	5,700	11,000
MW-18	8/24/00	<0.10	0.11	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	5,000	7,800
MW-19	8/28/00	0.02	1.8	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	3,000	6,200
MW-22	12/22/00	<0.05	0.25	<0.01	<0.05	<0.05	<0.0002	<0.05	<0.05	39,000	36,000
MW-23	12/22/00	<0.05	0.09	<0.01	<0.05	<0.05	<0.0002	0.1	<0.05	17,000	62,000

Table 2: *(Continue) Results of Semi-annual Monitoring Performed Aug. 23 - 28, 2000*
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples
Lea County, New Mexico

Metals:

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
WW-1	8/28/00	<0.01	1.1	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	3,100	5,100
WW-3	8/28/00	<0.01	1.3	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	88	320
WW-5	8/28/00	<0.01	2.7	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	1,000	2,000
WW-7	8/28/00	<0.01	0.42	<0.002	<0.005	<0.01	<0.0002	<0.01	<0.005	480	1,300

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes volatile organic analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below the analytical test method detection limit

Table 3: Results of Semi-annual Monitoring Performed Aug. 23 - 28, 2000

Summary of Depth-to-Groundwater and PSH Thickness Measurements

Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant

Lea County, New Mexico

Well Number	Depth to Groundwater (ft)	Water Level AMSL (ft)	PSH Thickness (ft)
TMW-1	55.62	3282.08	
TMW-2	**56.26	*3282.04	0.01
TMW-3	54.65	3282.02	
TMW-5	53.78	3281.88	
TMW-6	53.33	3282.03	
MW-1	**53.37	*3281.72	2.07
MW-2	**53.61	*3282.09	2.25
MW-3	57.59	3282.06	
MW-4	51.64	3281.61	
MW-5	**52.71	*3281.14	5.78
MW-6	50.90	3281.43	
MW-7	48.84	3281.59	
MW-8	48.99	3281.60	
MW-9	53.27	3281.46	
MW-10	52.85	3281.79	
MW-11	52.98	3281.88	
MW-12	51.86	3282.02	
MW-13	56.72	3279.43	
MW-14	52.50	3280.54	
MW-15	48.26	3280.72	
MW-16	49.25	3280.95	
MW-17	52.86	3281.46	
MW-18	54.21	3281.89	
MW-19	52.44	3281.77	
MW-20	**52.65	*3281.41	2.62
MW-21	**51.37	*3281.65	0.01
MW-22	52.66	3282.21	
MW-23	52.70	3281.75	
WW-1	49.24	3282.80	
WW-2	48.16	3283.30	
WW-3	52.97	3281.48	
WW-4	56.46	3278.94	
WW-5	53.54	3280.64	
WW-6	50.61	3279.37	
WW-7	46.61	3282.98	
RW-1	53.20	3281.99	

Notes: Depth to Groundwater as measured from top of casing

AMSL indicates feet above mean sea level

** Depth to Groundwater corrected for phase hydrocarbons, assuming specific gravity of 0.75.

* Water level AMSL calculated using corrected Depth to Groundwater

Table 4: Summary of Volatile and Semi-Volatile Organic Analysis of Groundwater Samples
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Volatiles:

Well Number	Sample Date	1,1-Dichloroethane ug/L	Benzene ug/L	Carbon disulfide ug/L	1,1,2,2 - Tetrachloroethane ug/L	Vinyl accetate ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L	2-methylphenol mg/L
MW-1	8/26/96	<100	7,370	<100	<100	<100	6,020	867	1,571	0.034
MW-3	5/30/97	<1	29	<1	<1	<1	22	11	18	<0.001
MW-4	5/30/97	<1	47	<1	<1	<1	1	<1	<1	<0.001
MW-5	5/30/97	<50	1,700	<50	<50	<50	320	280	510	<0.01
MW-6	5/30/97	<1	2	<1	<1	<1	1	<1	<1	<0.001
MW-7	5/30/97	<1	2	<1	<1	<1	2	1	1	<0.001
MW-8	6/20/97	<1	3	<1	<1	<1	2	<1	<1	<0.001
MW-9	5/30/97	<50	7,900	<50	<50	<50	800	600	610	0.002
MW-10	5/29/97	<10	4,100	<10	<10	<10	280	280	359	0.023
MW-11	5/29/97	<100	30,000	<100	<100	<100	4,700	780	1,320	0.018
MW-12	5/29/97	<500	13,300	<500	<500	900	24,000	5,200	10,400	0.013
MW-13	11/3/98	--	<1	--	--	--	<1	<1	<1	--
MW-14	11/3/98	--	<1	--	--	--	<1	<1	<1	--
MW-15	11/3/98	--	8	--	--	--	<1	<1	<1	--
MW-16	11/3/98	--	<1	--	--	--	<1	<1	<1	--
MW-17	11/3/98	--	<1	--	--	--	<1	<1	<1	--
MW-18	11/3/98	--	<1	--	--	--	<1	<1	<1	--
TMW-1	6/2/97	2	9	<1	<1	<1	2	1	3	<0.002
TMW-2	6/2/97	<10	2,700	<10	<10	<10	<10	810	1,290	<0.01
TMW-3	6/2/97	<1	428	2	5	<1	3	1,100	154	<0.001
TMW-5	6/2/97	<5	480	<5	<5	<5	<5	270	73	<0.01
TMW-6	6/2/97	<10	2,100	<10	<10	<10	<10	500	630	<0.01

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas
1. ug/L: Denotes volatile organic analytic concentration in micrograms per liter
2. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
3. <: Denotes analytic concentration below the analytical test method detection limit
4. -: No data available
5. *: Duplicate Sample for MW-3

Table 4: (Continued) Summary of Volatile, Semi-Volatile Organic, and TPH Analysis of Groundwater Samples
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Volatiles:

Well Number	Sample Date	1,1-Dichloroethane ug/L	Benzene ug/L	Carbon disulfide ug/L	1,1,2,2 - Tetrachloroethane ug/L	Vinyl accetate ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L	2-methylphenol mg/L
WW-1	8/26/96	<10	105	<10	<10	<10	14	23	53	<0.01
	6/2/97	<10	170	<10	<10	<10	<10	18	24	<0.005
WW-2	8/26/96	<1	<1	<1	<1	<1	<1	<1	<1	<0.001
	6/30/97	<1	<1	<1	<1	<1	<1	<1	<1	<0.001
WW-3	8/26/96	<1	33	<1	<1	<1	<1	<1	3	<0.001
	6/30/97	<1	11	<1	<1	<1	<1	7	<1	<0.001
WW-4	8/22/96	<1	<1	<1	<1	<1	<1	<1	<1	<0.010
	4/1/98	-	<10	-	-	-	<10	<10	<10	-
WW-5	6/30/97	<1	18	<1	<1	<1	<1	1	<1	<0.001
	4/1/98	-	9	-	-	-	<1	2	4	<0.001
WW-6	6/30/97	<1	<1	<1	<1	<1	<1	<1	<1	<0.001
	4/1/98	-	<1	-	-	-	<1	<1	<1	-
WW-7	6/30/97	<1	<1	<1	<1	<1	<1	57	22	<0.001
	3/20/98	-	<1	-	-	-	<1	43	11	-
Equipment Blank	5/29/97	<1	<1	<1	<1	<1	<1	<1	<1	<0.001
*Duplicate (MW-3A)	5/30/97	<1	30	<1	<1	<1	22	11	18	<0.001
Trip Blank	5/29/97	-	<1	<1	<1	<1	2	<1	<1	-
	5/30/97	-	<1	<1	<1	<1	<1	<1	<1	-

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. ug/L: Denotes volatile organic analytic concentration in micrograms per liter
2. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
3. <: Denotes analytic concentration below the analytical test method detection limit
4. -: No data available
5. *: Duplicate Sample for MW-3

Table 4: *(Continued) Summary of Volatile and Semi-Volatile Organic Analysis of Groundwater Samples*
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Semi-Volatiles:

Well Number	Sample Date	4-methylphenol/ 3-methylphenol (mg/L)	Anthracene mg/L	Naphthalene mg/L	2-methlynaphthalene mg/L	TRPHC mg/L	Acetophenone mg/L	Di-n-butyl-phalate mg/L	Phenol mg/L
MW-1	8/26/96	0.038	0.015	<0.01	<0.01	45.7	<0.05	<0.01	<0.01
MW-3	5/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.01
MW-4	5/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
MW-5	5/30/97	<0.01	<0.01	0.018	<0.01	-	<0.05	<0.01	<0.01
MW-6	5/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
MW-7	5/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
MW-8	6/20/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
MW-9	5/30/97	0.003	<0.001	0.004	0.003	-	0.006	0.001	0.013
MW-10	5/29/97	0.011	<0.005	0.007	0.005	-	<0.025	<0.005	0.033
MW-11	5/29/97	0.31	<0.05	<0.05	<0.05	-	<0.25	<0.05	0.017
MW-12	5/29/97	0.016	<0.1	<0.10	<0.1	-	<0.50	<0.1	<0.01
MW-13	11/3/98	--	--	--	--	--	--	--	--
MW-14	11/3/98	--	--	--	--	--	--	--	--
MW-15	11/3/98	--	--	--	--	--	--	--	--
MW-16	11/3/98	--	--	--	--	--	--	--	--
MW-17	11/3/98	--	--	--	--	--	--	--	--
MW-18	11/3/98	--	--	--	--	--	--	--	--
TMW-1	6/2/97	<0.002	<0.002	<0.002	<0.002	-	<0.01	<0.002	<0.002
TMW-2	6/2/97	<0.01	<0.01	0.019	0.016	-	<0.05	<0.01	<0.001
TMW-3	6/2/97	<0.001	<0.001	0.002	<0.001	-	<0.005	<0.001	<0.001
TMW-5	6/2/97	<0.01	<0.01	0.011	<0.01	-	<0.05	<0.01	<0.001
TMW-6	6/2/97	<0.01	<0.01	0.018	<0.01	-	<0.05	<0.01	<0.001

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas
1. ug/L: Denotes volatile organic analytic concentration in micrograms per liter
2. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
3. <: Denotes analytic concentration below the analytical test method detection limit
4. -: No data available
5. *: Duplicate Sample for MW-3

Table 4: (Continued) Summary of Volatile and Semi-Volatile Organic Analysis of Groundwater Samples
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Semi-Volatiles:

Well Number	Sample Date	4-methylphenol/ 3-methylphenol (mg/L)	Anthracene mg/L	Naphthalene mg/L	2-methlynaphthalene mg/L	TRPHC mg/L	Acetophenone mg/L	Di-n-butyl-phalate mg/L	Phenol mg/L
WW-1	8/26/96	<0.01	<0.01	<0.01	<0.001	4.8	<0.05	<0.01	<0.01
	6/2/97	<0.005	<0.005	<0.005	<0.005	-	<0.025	<0.005	<0.005
WW-2	8/26/96	<0.001	<0.001	<0.001	<0.001	0.277	<0.005	<0.001	<0.001
	6/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
WW-3	8/26/96	0.001	<0.001	0.001	0.001	2.16	<0.005	<0.001	<0.001
	6/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
WW-4	8/22/96	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
	4/1/98	-	-	-	-	-	-	-	-
WW-5	6/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	0.011	<0.001
	4/1/98	-	-	-	-	-	-	-	-
WW-6	6/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	0.003	<0.001
	4/1/98	--	-	-	-	-	-	-	-
WW-7	6/30/97	<0.001	<0.001	<0.001	<0.001	-	<0.005	<0.001	<0.001
Equipment Blank	3/20/98	-	-	-	-	-	-	-	-
	5/29/97	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001
*Duplicate (MW-3A)	5/30/97	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001
Trip Blank	5/29/97	-	-	-	-	-	-	-	-
	5/30/97	-	-	-	-	-	-	-	-

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. ug/L: Denotes volatile organic analytic concentration in micrograms per liter
2. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
3. <: Denotes analytic concentration below the analytical test method detection limit
4. -: No data available
5. *: Duplicate Sample for MW-3

Table 5: Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Metals:

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
MW-1	8/26/96	<0.10	0.51	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	--	--
MW-2	8/26/96	--	--	--	--	--	--	--	--	--	--
MW-3	5/30/97	<0.10	<0.20	<0.20	<0.05	<0.10	<0.001	<0.10	<0.05	430	1,200
MW-4	5/30/97	<0.10	0.2	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	5,500	10,000
MW-5	5/30/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	0.28	1,500	4,000
MW-6	5/30/97	<0.10	0.2	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	3,000	6,600
MW-7	5/30/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	330	1,300
MW-8	6/02/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	1.5	1,900	4,200
MW-9	5/30/97	<0.10	2.7	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	340	1,200
MW-10	5/29/97	<0.10	0.5	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	530	1,400
MW-11	5/29/97	<0.10	1.5	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	750	2,800
MW-12	5/29/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	1,300	3,000
MW-13	11/03/98	<0.1	1.3	<0.02	<0.05	<0.01	<0.001	<0.10	<0.05	430	1,100
MW-14	11/03/98	<0.1	<0.1	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	420	1,100
MW-15	11/03/98	--	--	--	--	--	--	--	--	2,300	4,700
MW-16	11/03/98	--	--	--	--	--	--	--	--	2,000	3,700
MW-17	11/03/98	--	--	--	--	--	--	--	--	6,000	11,000
MW-18	11/03/98	--	--	--	--	--	--	--	--	5,700	9,500

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below test method detection limit
3. --: No data available

Table 5: **(continued) Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples**
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Metals:

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
TMW-1	6/02/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	460	1,300
TMW-2	6/02/97	<0.10	3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	730	2,000
TMW-3	6/02/97	<0.10	1.0	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	870	2,200
TMW-5	6/02/97	<0.10	0.9	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	4,300	8,100
TMW-6	6/02/97	<0.10	1.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	730	2,100
WW-1	8/26/96	<0.10	0.97	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	--	--
	6/02/97	<0.10	0.6	<0.02	<0.05	<0.10	<0.001	<0.10	1.4	4,500	6,300
WW-2	8/26/96	<0.10	0.49	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	--	--
	6/03/97	<0.10	0.6	<0.02	<0.05	<0.10	<0.001	<0.01	<0.05	200	550
WW-3	8/26/96	<0.10	2	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	--	--
	6/03/97	<0.10	0.8	<0.02	<0.05	<0.10	<0.001	<0.01	<0.05	120	420
WW-4	8/22/96	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	--	--
WW-5	6/03/97	<0.10	0.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	1,200	2,900
WW-6	6/03/97	<0.10	0.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	970	2,500
WW-7	6/03/97	<0.10	0.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	490	1,400
*MW-3A	5/30/97	<0.10	<0.20	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	390	1,300

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below test method detection limit
3. --: No data available
4. *: Denotes duplicate sample of MW-3 (5/30/97)

Table 6: **Summary of Depth-to-Groundwater and PSH Thickness Measurements from Monitor Wells and Water Wells**
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Date of Measurement	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-11	MW-12
9/10/96	53.88	55.96	--	--	--	--	--	--	--	--	--	--
5/28/97	53.54* (2.73)	53.79* (2.97)	57.65	51.53	52.10	50.60	48.45	49.20	53.93	52.99	53.12	52.02
12/7/98	53.63* (2.31)	53.87* (2.50)	57.74	51.73	52.62* (2.68)	50.95	49.01	49.70	54.12	53.16	53.32	52.26

Date of Measurement	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	RW-1
9/10/96	--	--	--	--	--	--	--
5/28/97	--	--	--	--	--	--	--
12/7/98	56.84	53.10	48.07	49.09	52.84	54.33	53.66

Date of Measurement	TMW-1	TMW-2	TMW-3	TMW-5	TMW-6	WW-1	WW-2	WW-3	WW-4	WW-5	WW-6	WW-7
9/10/96	55.70	56.34	54.71	53.73	53.41	51.70	49.30	53.35	61.62**	--	--	--
5/28/97	55.72	56.35	54.74	53.77	53.40	50.97	49.94	53.30	56.51	53.81	50.46	51.14
12/7/98	55.82	56.51* (0.01)	54.87	53.98	53.57	51.21	50.31	53.44	56.45	53.90	50.64	51.45

Notes: All measurements recorded in feet from top of well casing.

1. *: Denotes measurement corrected for presence of hydrocarbon product, assuming specific gravity of 0.75.
2. (2.73): Denotes measured thickness of PSH in feet.
3. **: Denotes well pumping at time of measurement.
4. --: No data available.

Table 7: Summary of Volatile and Semi-Volatiles Organic Analysis of Groundwater Samples, TMW Series Monitoring Wells, Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant Lea County, New Mexico

Volatiles:

Well Number	Sample Date	1,1-Dichloroethane ug/L	Benzene ug/L	Carbon disulfide ug/L	1,1,2,2 - Tetrachloroethane ug/L	Vinyl acetate ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L
TMW-1	12/7/95	--	<1	--	--	--	<1	<1	<1
	6/6/96	1.24	3.8	--	<1	--	<1	<1	5.7
	6/2/97	2	9	<1	<1	<1	2	1	3
	8/18/97	2	2	<1	<1	<1	<1	2	3
	12/17/97	<1	1.2	<1	<1	<1	<1	<1	<1
	3/19/98	--	<1	--	--	--	<1	2	<1
	6/11/98	--	3	--	--	--	<1	<1	2
TMW-2	12/7/95	--	58.9	--	--	--	24.6	9.5	53
	6/6/96	<1	1070	--	<1	--	145	504	754
	6/2/97	<10	2,700	<10	<10	<10	<10	810	1,290
	8/18/97	<10	1,300	<10	<10	<10	<10	200	580
	12/17/97	<10	1,500	<10	<10	<10	<10	560	770
	3/19/98	--	522	--	--	--	<50	242	285
	6/11/98	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TMW-3	12/7/95	--	48.3	--	--	--	<1	18.3	4.5
	6/6/96	<1	861	--	<1	--	<10	369	40
	6/2/97	<1	428	2	5	<1	3	1,100	154
	8/18/97	<1	212	<1	<1	<1	<1	117	12
	12/17/97	<10	1,100	<10	<10	<10	<10	600	66
	3/19/98	--	558	--	--	--	<5	455	31
	6/11/98	--	1440	'	--	--	10	1110	60

Notes:
1. ug/L: Denotes volatile organic analytic concentation in micrograms per liter
2. <: Denotes analytic concentration below the analytical test method detection limit
3. --: No data available
4. *: Duplicate Sample
5. N/S: No sample collected

Table 7: (Continued) Summary of Volatile and Semi-Volatiles Organic Analysis of Groundwater Samples, TMW Series Monitoring Wells, Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant Lea County, New Mexico

Volatiles:

Well Number	Sample Date	1,1-Dichloroethane ug/L	Benzene ug/L	Carbon disulfide ug/L	1,1,2,2 - Tetrachloroethane ug/L	Vinyl acetate ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L
TMW-5	12/8/95	--	106	--	--	--	16.1	99.8	136
	6/6/96	<1	388	--	<1	--	<10	350	70
	6/2/97	<5	480	<5	<5	<5	<5	270	73
	8/19/97	<1	25	<1	<1	<1	<1	62	3
	12/17/97	<10	19	<10	<10	<10	<10	<10	58
	3/19/98	--	321	--	--	--	<10	257	91
	6/11/98	--	221	--	--	--	<5	170	36
*TMW-5	8/10/97	<1	29	<1	<1	<1	1	63	7.0
	12/17/97	<10	270	<10	<10	<10	<10	300	140
	6/11/98	--	228	--	--	--	<1	169	36
TMW-6	12/8/95	--	15.4	--	--	--	1.3	15.6	29.2
	6/6/96	<1	1,110	--	<1	--	<10	314	208
	6/2/97	<10	2,100	<10	<10	<10	<10	500	630
	8/18/97	<1	82	<1	<1	<1	<1	17	24
	12/17/97	<10	710	<10	<10	<10	<10	170	189
	3/19/98	--	1080	--	--	--	<10	254	246
	6/11/98	--	813	--	--	--	<10	171	166
*TMW-6	12/8/95	--	15.5	--	--	--	1.2	15.4	29.3

Notes:
1. ug/L: Denotes volatile organic analytic concentation in micrograms per liter
2. <: *Denotes analytic concentration below the analytical test method detection limit*
3. --: No data available
4. *: Duplicate Sample

Table 7: (Continue) Summary of Volatiles and Semi-Volatile Organic Analysis of Groundwater Samples, TMW Series Monitoring Wells, Texaco Exploration and Production, Inc., Eunice #2 (South) Gas Plant Lea County, New Mexico

Semi-Volatiles:

Well Number	Sample Date	2-methylphenol mg/L	4-methylphenol/ 3-methylphenol mg/L	Anthracene mg/L	Naphthalene mg/L	2-methlynaphthalene mg/L	Acetophenone mg/L	Di-n-butyl-phthalate mg/L	Phenol mg/L
TMW-1	12/7/95	--	--	<0.0013	<0.01	--	--	--	--
	6/6/96	--	--	<0.007	<0.006	--	--	--	--
	6/2/97	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002
	7/25/97	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	0.04	<0.001
	12/17/97	--	--	<0.001	<0.001	--	--	--	--
TMW-2	12/7/95	--	--	<0.0066	<0.01	--	--	--	--
	6/6/96	--	--	<0.0084	0.0183	--	--	--	--
	6/2/97	<0.01	<0.01	<0.01	0.019	0.016	<0.05	<0.01	<0.001
	7/25/97	<0.001	<0.001	<0.001	0.004	0.004	<0.005	<0.001	<0.001
	12/17/97	--	--	0.002	0.01	--	--	--	--
TMW-3	12/7/95	--	--	<0.00660	<0.01	--	--	--	--
	6/9/96	--	--	<0.007	<0.006	--	--	--	--
	6/2/97	<0.001	<0.001	<0.001	0.002	<0.001	<0.005	<0.001	<0.001
	7/25/97	<0.001	<0.001	<0.001	0.001	<0.001	<0.005	<0.001	0.009
	12/17/97	--	--	--	0.001	--	--	--	--
TMW-5	12/8/95	--	--	<0.00693	<0.0105	--	--	--	--
	6/6/96	--	--	<0.007	<0.006	--	--	--	--
	6/2/97	<0.01	<0.01	<0.01	0.011	<0.01	<0.05	<0.01	<0.001
	7/25/97	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001
	12/17/97	--	--	<0.001	0.006	--	--	--	--

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
2. <: Denotes analytic concentration below the analytical test method detection limit
3. --: No data available
4. *: Duplicate Sample

Table 7: (Continue) Summary of Volatiles and Semi-Volatile Organic Analysis of Groundwater Samples, TMW Series Monitoring Wells, Texaco Exploration and Production, Inc., Eunice #2 (South) Gas Plant Lea County, New Mexico

Semi-Volatiles:

Well Number	Sample Date	2-methylphenol mg/L	4-methylphenol/ 3-methylphenol mg/L	Anthracene mg/L	Naphthalene mg/L	2-methlynaphthalene mg/L	Acetophenone mg/L	Di-n-butyl-phthalate mg/L	Phenol mg/L
*TMW-5	7/25/97	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001
	12/17/97	--	--	<0.001	0.003	--	--	--	--
TMW-6	12/8/95	--	--	<0.0066	<0.01	--	--	--	--
	6/6/96	--	--	<0.007	0.0164	--	--	--	--
	6/2/97	<0.01	<0.01	<0.01	0.018	<0.01	<0.05	<0.01	<0.001
	7/25/97	0.004	0.004	<0.001	0.009	0.004	<0.005	<0.001	<0.001
	12/17/97	--	--	<0.001	0.020	--	--	--	--
*TMW-6	12/8/95	--	--	<0.00719	<0.0109	--	--	--	--

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes semi-volatile organic and TPH concentration in milligrams per liter
2. <: Denotes analytic concentration below the analytical test method detection limit
3. --: No data available
4. *: Duplicate Sample

Table 8: Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples, TMW Series Monitoring Wells, Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant Lea County, New Mexico

Metals:

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
TMW-1	12/7/95	0.0223	0.346	<0.01	<0.02	<0.01	<0.0002	0.014	<0.002	650	1,800
	6/6/96	0.3243	0.0519	<0.01	<0.02	<0.01	<0.0002	<0.005	<0.002	649	1,720
	6/2/97	<0.10	<0.20	<0.20	<0.05	<0.10	<0.001	<0.10	<0.05	460	1,300
	7/25/97	<0.10	0.7	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	690	1,500
	12/7/97	<0.10	0.64	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	340	1,100
	3/19/98	<0.10	0.83	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	820	1,800
	6/11/98	<0.01	0.81	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	1,100	2,400
TMW-2	12/7/95	0.0268	0.807	0.01	<0.02	<0.01	<0.0002	0.009	<0.002	545	1,450
	6/6/96	0.031	2.08	<0.01	<0.02	<0.01	<0.0002	<0.005	<0.002	1,020	2,360
	6/2/97	<0.10	3.0	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	730	2,000
	7/25/97	<0.10	3.0	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	1,800	2,900
	12/7/97	<0.10	3.6	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	1,100	2,500
	3/19/98	<0.10	3.2	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	1,100	2,000
	6/11/98	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S	N/S
TMW-3	12/7/95	0.0293	1.14	<0.01	0.0251	<0.1	0.0002	0.016	<0.002	685	1,670
	6/6/96	0.0464	1.77	<0.01	0.0213	0.01	<0.0002	<0.005	<0.002	1,490	3,280
	6/2/97	<0.10	1.0	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	870	2,200
	7/25/97	<0.10	1.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	1,700	2,900
	12/7/97	<0.10	1.8	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	840	2,100
	3/19/98	<0.10	1.4	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	1,100	2,300
	6/11/98	<0.10	2.0	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	1,100	2,300

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below test method detection limit
3. --: No data available
4. *: Denotes duplicated sample
5. N/S: Not Sampled

Table 8: (Continued) Summary of Dissolved Metals and General Inorganic Analysis of Groundwater Samples, TMW Series Monitoring Wells,
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Well Number	Sample Date	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L	Chloride mg/L	TDS mg/L
TMW-5	12/7/95	0.0783	0.456	<0.01	<0.02	<0.05	0.0002	<0.005	<0.002	1,800	3,370
	6/6/96	0.0716	1.04	<0.01	<0.02	0.011	<0.0002	<0.005	<0.002	3,250	7,450
	6/2/97	<0.10	0.9	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	4,300	8,100
	7/25/97	<0.10	0.54	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	6,300	9,600
	12/7/97	<0.10	1.8	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	4,000	7,700
	3/19/98	<0.10	0.85	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	4,700	7,400
	6/11/98	<0.10	0.9	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	5,400	9,000
*TMW-5	7/25/97	<0.10	0.58	0.03	0.06	<0.10	<0.001	<0.10	<0.01	5,900	9,600
	12/7/97	<0.10	1.8	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	4,000	7,600
	3/19/98	<0.10	0.78	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	4,900	7,600
	6/11/98	<0.10	0.90	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	5,300	8,100
TMW-6	12/8/95	0.323	1.36	<0.01	0.0316	0.021	<0.0002	0.003	<0.002	700	1,840
	6/6/96	0.0693	1.72	<0.01	<0.02	<0.01	<0.0002	<0.005	<0.002	788	2,360
	6/2/97	<0.10	1.3	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	730	2,100
	7/25/97	<0.10	1.1	<0.02	<0.05	<0.10	<0.001	<0.10	<0.01	1,300	2,400
	12/7/97	<0.10	1.8	<0.02	<0.05	<0.10	<0.001	<0.10	<0.05	660	1,800
	3/19/98	<0.10	1.6	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	680	1,900
	6/11/98	<0.10	1.8	<0.02	<0.05	<0.10	<0.0010	<0.10	<0.05	1,100	2,100
*TMW-6	12/8/95	0.0362	1.26	<0.01	0.0296	0.015	<0.0002	0.011	<0.002	700	1,900

Notes: All analysis performed by Trace Analysis, Inc., Lubbock, Texas

1. mg/L: Denotes analytic concentration in milligrams per liter
2. <: Denotes analytic concentration below test method detection limit
3. --: No data available
4. *: Denotes duplicated sample
5. N/S: Not Sampled

Table 9: Summary of Depth-to-Groundwater, PSH Thickness and Groundwater Surface Elevation Measurements
TMW Series Monitoring Wells
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant,
Lea County, New Mexico

Well Number	Date	Depth-to-Groundwater feet TOC	Depth-to-PSH feet TOC	PHS Thickness feet	Groundwater Surface Elevation feet AMSL
TMW-1	12/17/95	56.32	-	-	3281.59
	6/6/96	55.70	-	-	3282.21
	6/2/97	55.72	-	-	3282.19
	8/18/97	55.70	-	-	3282.21
	12/17/97	55.68	-	-	3282.23
	3/19/98	55.70	-	-	3282.21
	6/11/98	55.75	-	-	3282.16
TMW-2	12/17/95	56.71	-	-	3281.80
	6/6/96	56.34	-	-	3282.17
	6/2/97	56.35	-	-	3282.16
	8/18/97	56.33	-	-	3282.18
	12/17/97	56.31	-	-	3282.20
	3/19/98	56.37	-	-	3282.14
	6/11/98	56.41	56.40	0.01	3282.11
TMW-3	12/17/95	55.95	-	-	3280.93
	6/6/96	54.70	-	-	3282.18
	6/2/97	54.74	-		3282.14
	8/18/97	54.70	-	-	3282.18
	12/17/97	54.67	-	-	3282.21
	3/19/98	54.71	-	-	3282.17
	6/11/98	54.73	-	-	3282.15

Notes:

1. PSH: Phase Separated Hydrocarbon
2. TOC: Denotes measurement in feet below top of PVC well casing
3. AMSL: Denotes elevation in feet above mean sea level
4. --: PSH not observed

Table 9: (Continued) Summary of Depth-to-Groundwater, PSH Thickness and Groundwater Surface Elevation Measurements
TMW Series Monitoring Wells
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant,
Lea County, New Mexico

Well Number	Date	Depth-to-Groundwater feet TOC	Depth-to-PSH feet TOC	PHS Thickness feet	Groundwater Surface Elevation feet AMSL
TMW-5	12/17/95	57.71	-	-	3276.17
	6/6/96	53.70	-	-	3282.18
	6/2/97	53.77	-	-	3282.11
	8/19/97	53.72	-	-	3282.16
	12/17/97	53.68	-	-	3282.20
	3/19/98	53.75	-	-	3282.13
	6/11/98	53.80	-	-	3282.08
TMW-6	12/17/95	55.62	-	-	3279.96
	6/6/96	53.41	-	-	3282.17
	6/2/97	53.40	-	-	3282.18
	8/18/97	53.39	-	-	3281.69
	12/17/97	53.36	-	-	3282.22
	3/19/98	53.40	-	-	3282.18
	6/11/98	53.45	-	-	3282.13

Notes:

1. PSH: Phase Separated Hydrocarbon
2. TOC: Denotes measurement in feet below top of PVC well casing
3. AMSL: Denotes elevation in feet above mean sea level
4. --: PSH not observed

Table 10

Summary of Soil Sample Results for Volatile Organics and Metals from Sump Areas
Texaco Exploration and Production, Inc., Eunice #2 (South) Gas Plant
Lea County, New Mexico

Area	Date	Sample ID	Depth (ft)	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Xylene mg/Kg	Total BTEX mg/Kg
East Sump	9/12/00	North Wall	-	4.96	62.6	45.3	130	243
	9/12/00	South Wall	-	0.581	1.18	2.33	7.3	11.4
	9/12/00	East Wall	-	3.63	62.8	49.8	141	257
	9/12/00	West Wall	-	19.3	24.4	192	<0.5	236
	9/12/00	Bottom	6.5	11.8	147	90.4	257	507
	9/27/00	Bottom	10	1.51	55.5	74.2	257	388
Drain (Concrete) Sump	9/26/00	Bottom	9	155	705	298	606	1760
Oil & Water Sump	9/26/00	Bottom	10	8.07	68.80	96.2	205	378
Slop Oil Sump (SOS)	9/27/00	Bottom	15	7.75	154.00	119	260	542
Concrete Drain Sump	9/14/00	BH-1	5-6	136	782	332	730	1980
	9/14/00	BH-1	20-21	<2	49.1	56.3	132	237
	9/18/00	BH-1	30-31	<0.1	8.68	12.8	31.8	53.3
	9/18/00	BH-1	40-41	7.98	91.2	75.2	156	330
	9/18/00	BH-1	50-51	3.25	1.72	29.2	<0.1	34.2

Area	Date	Sample ID	Depth (ft)	Arsenic mg/Kg	Barium mg/Kg	Cadmium mg/Kg	Chromium mg/Kg	Lead mg/Kg	Mercury mg/Kg	Selenium mg/Kg	Silver mg/Kg
Drain (Concrete) Sump	9/26/00	Bottom	9	NA	NA	NA	NA	NA	8.38	NA	NA
	9/14/00	BH-1	5-6	<5.0	180	<2.0	6.7	7.4	24.9	<5.0	<2.0
	9/14/00	BH-1	20-21	<5.0	239	<2.0	<5.0	<5.0	<0.19	<5.0	<2.0
	9/18/00	BH-1	30-31	<5.0	58	<2.0	<5.0	<5.0	<0.19	<5.0	<2.0
	9/18/00	BH-1	40-41	NA	NA	NA	NA	NA	NA	NA	NA
	9/18/00	BH-1	50-51	<5.0	2,100	<2.0	<5.0	<5.0	<0.19	<5.0	<2.0
East Sump	9/27/00	Bottom	10	<5.0	177	<2.0	<5.0	<5.0	<0.19	<5.0	<2.0

NA: Indicates sample not analyzes

APPENDIX A

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HIGHLANDER ENVIRONMENTAL CORP.
ATTN: MR. MARK LARSON
1910 N. BIG SPRING STREET
MIDLAND, TEXAS 79705
FAX: 915-682-3946

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: 786
Project Name: Eunice #1 (South) - Pit "D"
Project Location: None Given

Sampling Date: See Below
Receiving Date: 02/02/00
Analysis Date: 02/02/00

ELT#	FIELD CODE	SAMPLE DATE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
23330	East Wall 4'	2/1/00	<10	61
23331	South Wall	2/2/00	337	4535
23332	East Wall	2/2/00	918	4806
23333	Bottom	2/2/00	114	609
23334	North Wall	2/2/00	66	860
23335	West Wall	2/2/00	1062	2719
23336	NE Corner	2/2/00	614	3818
	% INSTRUMENT ACCURACY		96	88
	% EXTRACTION ACCURACY		107	96
	BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO

Raland K. Tuttle

2-3-00
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HIGHLANDER ENVIRONMENTAL CORP.
ATTN: MR. MARK LARSON
1910 N. BIG SPRING STREET
MIDLAND, TEXAS 79705
FAX: 915-682-3946

Sample Type: Soil
Sample Condition: Intact/Iced
Project #: 786
Project Name: Eunice #1 (South) - Pit "D"
Project Location: None Given

Sampling Date: See Below
Receiving Date: 02/02/00
Analysis Date: 2/2 & 2/3/00

ELT#	FIELD CODE / SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)
23331	South Wall 2/1/00	1.73	0.372	3.22	4.71	1.79
23332	East Wall 2/2/00	4.05	3.47	7.93	15.6	3.25
23333	Bottom 2/2/00	0.284	0.688	1.52	2.25	0.677
23334	North Wall 2/2/00	0.154	0.723	0.918	1.34	0.618
23335	West Wall 2/2/00	1.48	1.05	13.0	8.54	5.02
23336	NE Corner 2/2/00	3.41	1.75	9.81	10.2	2.61
	%IA	106	102	98	101	98
	%EA	103	111	98	106	94
	BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: EPA SW 846-8021B,5030

Raland K. Tuttle

Raland K. Tuttle

2-3-00

Date

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: 1 OF: 1

CLIENT NAME: Texaco SITE MANAGER: M. Larson

PROJECT NO.: 786 PROJECT NAME: Eunice #1 (South) - Pit "D"

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE
23330	2/1/00	11:05	S			East Wall, 4'	1					
23331	2/2/00	8:45				South Wall	1					
23332	2/2/00	11:15				East Wall	1					
23333	2/2/00	11:18				Bottom	1					
23334	2/2/00	11:20				North Wall	1					
23335	2/2/00	11:30				West Wall	1					
23336	2/2/00	11:35				NE Corner	1					
23337	2/2/00	11:45				East Wall	1					

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8020/602 · MTBE 8260/608 · TPH 418.1 / 8015 Mod. TX1005 · PAH 8270 · RCRA Metals Ag As Ba Cd Cr Pb Hg Se · TCLP Metals Ag As Ba Cd Cr Pd Hg Se · TCLP Volatiles · TCLP Semi Volatiles · RCI · GC/MS Vol. 8240/8260/624 · GC/MS Semi. Vol. 8270/625 · PCB's 8080/608 · Pest. 808/608 · BOD, TSS, pH, TDS, Chloride · Gamma Spec. · Alpha Beta (Air) · PLM (Asbestos)

RELINQUISHED BY: (Signature)	Date: 15:40(CT) Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RECEIVING LABORATORY: Env. Lab of Texas		RECEIVED BY: (Signature) Cathy Meeks	
ADDRESS: 12600 W. I-20		DATE: 2-2-00	TIME: 3:46
CITY: Odessa STATE: TX ZIP: 79763			
CONTACT: PHONE: (915) 563-1800			

SAMPLED BY: (Print & Sign) Mark Larson Date: 2/2/00 Time: 11:45

SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #: HAND DELIVERED UPS OTHER:

HIGHLANDER CONTACT PERSON: Mark Larson

Results by: 4:30 9:00am

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid (S)-Soil SL-Sludge O-Other

REMARKS: Mark Larson Mobile: 557-2390 Rush verbal 2/2 9:00

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.

Jan 16 01 10:39a p.4

APPENDIX B

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: September 8, 2000

Order ID Number: A00083006

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
152501	TMW-3	Water	8/25/00	10:45	8/30/00
152502	TMW-5	Water	8/25/00	11:20	8/30/00
152503	TMW-6	Water	8/25/00	10:06	8/30/00
152504	TMW-9	Water	8/25/00	14:35	8/30/00
152505	MW-10	Water	8/25/00	13:50	8/30/00
152506	MW-11	Water	8/25/00	13:10	8/30/00
152507	MW-12	Water	8/25/00	12:10	8/30/00
152508	MW-19	Water	8/28/00	10:00	8/30/00
152509	WW-1	Water	8/28/00	14:50	8/30/00
152510	WW-3	Water	8/28/00	12:40	8/30/00
152511	WW-5	Water	8/28/00	13:50	8/30/00
152512	WW-7	Water	8/28/00	11:35	8/30/00

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.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152501 - TMW-3

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		1.02	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		1.01	mg/L	5	0.001
M,P,O-Xylene		0.011	mg/L	5	0.001
Total BTEX		2.04	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.495	mg/L	1	0.10	99	72 - 128
4-BFB		0.542	mg/L	1	0.10	108	72 - 128

Sample: 152501 - TMW-3

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04690	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04081	Date Prepared:	8/31/00

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

Sample: 152501 - TMW-3

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04681	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		680	mg/L	1	0.50

Sample: 152501 - TMW-3

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		2000	mg/L	1	10

Sample: 152501 - TMW-3

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04761	Date Analyzed:	9/5/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		2.6	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152502 - TMW-5

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.675	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		0.399	mg/L	5	0.001
M,P,O-Xylene		0.056	mg/L	5	0.001
Total BTEX		1.13	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.491	mg/L	1	0.10	98	72 - 128
4-BFB		0.536	mg/L	1	0.10	107	72 - 128

Sample: 152502 - TMW-5

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04690	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04081	Date Prepared:	8/31/00

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

Sample: 152502 - TMW-5

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04681	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		3600	mg/L	1	0.50

Sample: 152502 - TMW-5

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		5800	mg/L	1	10

Sample: 152502 - TMW-5

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04761 | Date Analyzed: 9/5/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03999 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.05	mg/L	1	0.01
Total Barium		1.1	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152503 - TMW-6

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04674 | Date Analyzed: 9/3/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04070 | Date Prepared: 9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		4.68	mg/L	5	0.001
Toluene		0.01	mg/L	5	0.001
Ethylbenzene		0.986	mg/L	5	0.001
M,P,O-Xylene		0.251	mg/L	5	0.001
Total BTEX		5.93	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.484	mg/L	1	0.10	96	72 - 128
4-BFB		0.561	mg/L	1	0.10	112	72 - 128

Sample: 152503 - TMW-6

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04690 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04081 | Date Prepared: 8/31/00

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

Sample: 152503 - TMW-6

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04681 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		380	mg/L	1	0.50

Sample: 152503 - TMW-6

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1400	mg/L	1	10

Sample: 152503 - TMW-6

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04761	Date Analyzed:	9/5/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.13	mg/L	1	0.01
Total Barium		2.6	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152504 - TMW-9

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		5.28	mg/L	5	0.001
Toluene		0.474	mg/L	5	0.001
Ethylbenzene		0.453	mg/L	5	0.001
M,P,O-Xylene		0.411	mg/L	5	0.001
Total BTEX		6.62	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.5	mg/L	1	0.10	100	72 - 128
4-BFB		0.517	mg/L	1	0.10	103	72 - 128

Sample: 152504 - TMW-9

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04690	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04081	Date Prepared:	8/31/00

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

Sample: 152504 - TMW-9

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC04681 Date Analyzed: 9/4/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04074 Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		460	mg/L	1	0.50

Sample: 152504 - TMW-9

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC04651 Date Analyzed: 9/1/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04054 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		2000	mg/L	1	10

Sample: 152504 - TMW-9

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC04761 Date Analyzed: 9/5/00
Analyst: RR Preparation Method: E 3010A Prep Batch: PB03999 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		11	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152505 - MW-10

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC04674 Date Analyzed: 9/3/00
Analyst: RC Preparation Method: 5035 Prep Batch: PB04070 Date Prepared: 9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		10.7	mg/L	10	0.001
Toluene		0.485	mg/L	10	0.001
Ethylbenzene		0.731	mg/L	10	0.001
M,P,O-Xylene		0.678	mg/L	10	0.001
Total BTEX		12.6	mg/L	10	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.952	mg/L	1	0.10	95	72 - 128
4-BFB		0.939	mg/L	1	0.10	93	72 - 128

Sample: 152505 - MW-10

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04690	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04081	Date Prepared:	8/31/00

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

Sample: 152505 - MW-10

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04681	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		360	mg/L	1	0.50

Sample: 152505 - MW-10

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1300	mg/L	1	10

Sample: 152505 - MW-10

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04761	Date Analyzed:	9/5/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.03	mg/L	1	0.01
Total Barium		7.5	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152506 - MW-11

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		35.6	mg/L	100	0.001
Toluene		3.15	mg/L	100	0.001
Ethylbenzene		0.728	mg/L	100	0.001
M,P,O-Xylene		0.487	mg/L	100	0.001
Total BTEX		39.9	mg/L	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		10.3	mg/L	1	0.10	103	72 - 128
4-BFB		10.1	mg/L	1	0.10	101	72 - 128

Sample: 152506 - MW-11

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC04763 Date Analyzed: 8/31/00
Analyst: MS Preparation Method: N/A Prep Batch: PB04146 Date Prepared: 8/31/00

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

Sample: 152506 - MW-11

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC04681 Date Analyzed: 9/4/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04074 Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		1100	mg/L	1	0.50

Sample: 152506 - MW-11

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC04651 Date Analyzed: 9/1/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04054 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		3700	mg/L	1	10

Sample: 152506 - MW-11

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC04761 Date Analyzed: 9/5/00
Analyst: RR Preparation Method: E 3010A Prep Batch: PB03999 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.10	mg/L	1	0.01
Total Barium		11	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152507 - MW-12

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC04674 Date Analyzed: 9/3/00
Analyst: RC Preparation Method: 5035 Prep Batch: PB04070 Date Prepared: 9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		91.5	mg/L	200	0.001
Toluene		62.4	mg/L	200	0.001
Ethylbenzene		4.09	mg/L	200	0.001
M,P,O-Xylene		7.04	mg/L	200	0.001
Total BTEX		165	mg/L	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		19.6	mg/L	1	0.10	98	72 - 128
4-BFB		20	mg/L	1	0.10	100	72 - 128

Sample: 152507 - MW-12

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04763 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04146 | Date Prepared: 8/31/00

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

Sample: 152507 - MW-12

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04681 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		1500	mg/L	1	0.50

Sample: 152507 - MW-12

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC04651 | Date Analyzed: 9/1/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04054 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		4700	mg/L	1	10

Sample: 152507 - MW-12

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04761 | Date Analyzed: 9/5/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03999 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.47	mg/L	1	0.01
Total Barium		2.6	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152508 - MW-19

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.94	mg/L	5	0.001
Toluene		0.007	mg/L	5	0.001
Ethylbenzene		0.073	mg/L	5	0.001
M,P,O-Xylene		0.049	mg/L	5	0.001
Total BTEX		1.07	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.486	mg/L	1	0.10	97	72 - 128
4-BFB		0.488	mg/L	1	0.10	97	72 - 128

Sample: 152508 - MW-19

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04763	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04146	Date Prepared:	8/31/00

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

Sample: 152508 - MW-19

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04681	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		3000	mg/L	1	0.50

Sample: 152508 - MW-19

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		6200	mg/L	1	10

Sample: 152508 - MW-19

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04761	Date Analyzed:	9/5/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		0.02	mg/L	1	0.01
Total Barium		1.8	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002

Continued ...

... *Continued* Sample: 152508 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152509 - WW-1

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04674	Date Analyzed:	9/3/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04070	Date Prepared:	9/3/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.838	mg/L	5	0.001
Toluene		0.007	mg/L	5	0.001
Ethylbenzene		0.054	mg/L	5	0.001
M,P,O-Xylene		0.027	mg/L	5	0.001
Total BTEX		0.926	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.533	mg/L	1	0.10	106	72 - 128
4-BFB		0.492	mg/L	1	0.10	98	72 - 128

Sample: 152509 - WW-1

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04763	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04146	Date Prepared:	8/31/00

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

Sample: 152509 - WW-1

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04682	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		3100	mg/L	1	0.50

Sample: 152509 - WW-1

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04651	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		5100	mg/L	1	10

Sample: 152509 - WW-1

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04761 | Date Analyzed: 9/5/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03999 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		1.1	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152510 - WW-3

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04661 | Date Analyzed: 9/2/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04065 | Date Prepared: 9/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.013	mg/L	1	0.001
Toluene		0.006	mg/L	1	0.001
Ethylbenzene		0.006	mg/L	1	0.001
M,P,O-Xylene		0.004	mg/L	1	0.001
Total BTEX		0.03	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.095	mg/L	1	0.10	95	72 - 128
4-BFB		0.079	mg/L	1	0.10	79	72 - 128

Sample: 152510 - WW-3

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04763 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04146 | Date Prepared: 8/31/00

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

Sample: 152510 - WW-3

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04682 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		88	mg/L	1	0.50

Sample: 152510 - WW-3

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04652	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		320	mg/L	1	10

Sample: 152510 - WW-3

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04761	Date Analyzed:	9/5/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		1.3	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152511 - WW-3 → 5

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04661	Date Analyzed:	9/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04065	Date Prepared:	9/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.009	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		0.009	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.463	mg/L	1	0.10	92	72 - 128
4-BFB		0.391	mg/L	1	0.10	78	72 - 128

Sample: 152511 - WW-3 → 5

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04763	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04146	Date Prepared:	8/31/00

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

Sample: 152511 - WW-3

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC04682 Date Analyzed: 9/4/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04074 Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		1000	mg/L	1	0.50

Sample: 152511 - WW-3

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC04652 Date Analyzed: 9/1/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04054 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		2000	mg/L	1	10

Sample: 152511 - WW-3

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC04745 Date Analyzed: 9/6/00
Analyst: RR Preparation Method: E 3010A Prep Batch: PB03999 Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		2.7	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Sample: 152512 - WW-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC04661 Date Analyzed: 9/2/00
Analyst: RC Preparation Method: 5035 Prep Batch: PB04065 Date Prepared: 9/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.039	mg/L	5	0.001
Toluene		0.02	mg/L	5	0.001
Ethylbenzene		0.094	mg/L	5	0.001
M,P,O-Xylene		0.065	mg/L	5	0.001
Total BTEX		0.218	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.453	mg/L	1	0.10	90	72 - 128
4-BFB		0.385	mg/L	1	0.10	77	72 - 128

Sample: 152512 - WW-7

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04763	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04146	Date Prepared:	8/31/00

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

Sample: 152512 - WW-7

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04682	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		480	mg/L	1	0.50

Sample: 152512 - WW-7

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04652	Date Analyzed:	9/1/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04054	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		1300	mg/L	1	10

Sample: 152512 - WW-7

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04745	Date Analyzed:	9/6/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03999	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.01	mg/L	1	0.01
Total Barium		0.42	mg/L	1	0.01
Total Cadmium		<0.002	mg/L	1	0.002
Total Chromium		<0.005	mg/L	1	0.005
Total Lead		<0.01	mg/L	1	0.01
Total Selenium		<0.01	mg/L	1	0.01
Total Silver		<0.005	mg/L	1	0.005

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04651

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Sample: Method Blank QCBatch: QC04652

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Sample: Method Blank QCBatch: QC04661

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	Spike Amount	Percent Recovery	Recovery Limit
TFT		0.098	mg/L	0.10	98	72 - 128
4-BFB		0.082	mg/L	0.10	82	72 - 128

Sample: Method Blank QCBatch: QC04674

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	Spike Amount	Percent Recovery	Recovery Limit
TFT		0.102	mg/L	0.10	102	72 - 128
4-BFB		0.099	mg/L	0.10	99	72 - 128

Sample: Method Blank QCBatch: QC04681

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC04682

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC04690

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

Sample: Method Blank QCBatch: QC04745

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.01	mg/L	0.01
Total Barium		<0.01	mg/L	0.01
Total Cadmium		<0.002	mg/L	0.002
Total Chromium		<0.005	mg/L	0.005
Total Lead		<0.01	mg/L	0.01
Total Selenium		<0.01	mg/L	0.01
Total Silver		<0.005	mg/L	0.005

Sample: Method Blank QCBatch: QC04761

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<0.01	mg/L	0.01
Total Barium		<0.01	mg/L	0.01
Total Cadmium		<0.002	mg/L	0.002
Total Chromium		<0.005	mg/L	0.005
Total Lead		<0.01	mg/L	0.01
Total Selenium		<0.01	mg/L	0.01
Total Silver		<0.005	mg/L	0.005

Sample: Method Blank QCBatch: QC04763

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

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04661

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.102	mg/L	1	0.10	<0.001	102		80 - 120	20
Benzene		0.097	mg/L	1	0.10	<0.001	97		80 - 120	20
Toluene		0.098	mg/L	1	0.10	<0.001	98		80 - 120	20
Ethylbenzene		0.099	mg/L	1	0.10	<0.001	99		80 - 120	20
M,P,O-Xylene		0.294	mg/L	1	0.30	<0.001	98		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.094	mg/L	1	0.10	94	72 - 128
4-BFB		0.078	mg/L	1	0.10	78	72 - 128

Sample: LCSD QC Batch: QC04661

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.105	mg/L	1	0.10	<0.001	105	3	80 - 120	20
Benzene		0.097	mg/L	1	0.10	<0.001	97	0	80 - 120	20
Toluene		0.099	mg/L	1	0.10	<0.001	99	1	80 - 120	20
Ethylbenzene		0.097	mg/L	1	0.10	<0.001	97	2	80 - 120	20
M,P,O-Xylene		0.288	mg/L	1	0.30	<0.001	96	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.093	mg/L	1	0.10	93	72 - 128
4-BFB		0.077	mg/L	1	0.10	77	72 - 128

Sample: LCS QC Batch: QC04674

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.103	mg/L	1	0.10	<0.001	103	2	80 - 120	20
Benzene		0.101	mg/L	1	0.10	<0.001	101	1	80 - 120	20
Toluene		0.102	mg/L	1	0.10	<0.001	102	0	80 - 120	20
Ethylbenzene		0.1	mg/L	1	0.10	<0.001	100	0	80 - 120	20
M,P,O-Xylene		0.305	mg/L	1	0.30	<0.001	101	1	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.101	mg/L	1	0.10	101	72 - 128

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-BFB		0.1	mg/L	1	0.10	100	72 - 128

Sample: LCSD QC Batch: QC04674

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.103	mg/L	1	0.10	<0.001	103	0	80 - 120	20
Benzene		0.1	mg/L	1	0.10	<0.001	100	1	80 - 120	20
Toluene		0.101	mg/L	1	0.10	<0.001	101	1	80 - 120	20
Ethylbenzene		0.101	mg/L	1	0.10	<0.001	101	1	80 - 120	20
M,P,O-Xylene		0.305	mg/L	1	0.30	<0.001	101	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.103	mg/L	1	0.10	103	72 - 128
4-BFB		0.102	mg/L	1	0.10	102	72 - 128

Sample: LCS QC Batch: QC04681

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL	[1]	11.53	mg/L	1	12.50	<0.5	92		80 - 120	20

Sample: LCSD QC Batch: QC04681

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL	[2]	11.43	mg/L	1	12.50	<0.5	91	1	80 - 120	20

Sample: LCS QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00099	mg/L	1	0.001	<0.0002	99		80 - 120	20

[1] Blank spikes used because the matrix spikes %EA was outside the control limit.
[2] Blank spikes used because the matrix spikes %EA was outside the control limit.

Sample: LCSD QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00094	mg/L	1	0.001	<0.0002	94	5	80 - 120	20

Sample: LCS QC Batch: QC04745

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.02	mg/L	1	1	<0.01	102		75 - 125	20
Total Barium		2.13	mg/L	1	2	<0.01	106		75 - 125	20
Total Cadmium		0.21	mg/L	1	0.20	<0.002	105		75 - 125	20
Total Chromium		0.42	mg/L	1	0.40	<0.005	105		75 - 125	20
Total Lead		1.03	mg/L	1	1	<0.01	103		75 - 125	20
Total Selenium		0.95	mg/L	1	1	<0.01	95		75 - 125	20
Total Silver		0.20	mg/L	1	0.20	<0.005	100		75 - 125	20

Sample: LCSD QC Batch: QC04745

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.02	mg/L	1	1	<0.01	102	0	75 - 125	20
Total Barium		2.13	mg/L	1	2	<0.01	106	0	75 - 125	20
Total Cadmium		0.21	mg/L	1	0.20	<0.002	105	0	75 - 125	20
Total Chromium		0.42	mg/L	1	0.40	<0.005	105	0	75 - 125	20
Total Lead		1.03	mg/L	1	1	<0.01	103	0	75 - 125	20
Total Selenium		0.94	mg/L	1	1	<0.01	94	1	75 - 125	20
Total Silver		0.20	mg/L	1	0.20	<0.005	100	0	75 - 125	20

Sample: LCS QC Batch: QC04761

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.02	mg/L	1	1	<0.01	102		75 - 125	20
Total Barium		2.13	mg/L	1	2	<0.01	106		75 - 125	20
Total Cadmium		0.21	mg/L	1	0.20	<0.002	105		75 - 125	20
Total Chromium		0.42	mg/L	1	0.40	<0.005	105		75 - 125	20
Total Lead		1.03	mg/L	1	1	<0.01	103		75 - 125	20
Total Selenium		0.94	mg/L	1	1	<0.01	94		75 - 125	20
Total Silver		0.20	mg/L	1	0.20	<0.005	100		75 - 125	20

Sample: LCSD QC Batch: QC04761

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.02	mg/L	1	1	<0.01	102	0	75 - 125	20
Total Barium		2.13	mg/L	1	2	<0.01	106	0	75 - 125	20
Total Cadmium		0.21	mg/L	1	0.20	<0.002	105	0	75 - 125	20
Total Chromium		0.42	mg/L	1	0.40	<0.005	105	0	75 - 125	20
Total Lead		1.03	mg/L	1	1	<0.01	103	0	75 - 125	20
Total Selenium		0.95	mg/L	1	1	<0.01	95	1	75 - 125	20
Total Silver		0.20	mg/L	1	0.20	<0.005	100	0	75 - 125	20

Sample: LCS QC Batch: QC04763

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00116	mg/L	1	0.001	<0.0002	116		80 - 120	20

Sample: LCSD QC Batch: QC04763

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00120	mg/L	1	0.001	<0.0002	120	3	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC04682

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		257.53	mg/L	1	125	130	102		80 - 120	20

Sample: MSD QC Batch: QC04682

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		257.00	mg/L	1	125	130	101	0	80 - 120	20

Sample: MS QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00097	mg/L	1	0.001	<0.0002	97		80 - 120	20

Sample: MSD QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00097	mg/L	1	0.001	<0.0002	97	0	80 - 120	20

Sample: MS QC Batch: QC04745

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.06	mg/L	1	1	<0.01	106		75 - 125	20
Total Barium		2.02	mg/L	1	2	0.06	98		75 - 125	20
Total Cadmium		0.19	mg/L	1	0.20	<0.002	95		75 - 125	20
Total Chromium		0.40	mg/L	1	0.40	<0.005	100		75 - 125	20
Total Lead		0.97	mg/L	1	1	<0.01	97		75 - 125	20
Total Selenium		1.03	mg/L	1	1	<0.01	103		75 - 125	20
Total Silver		0.21	mg/L	1	0.20	<0.005	105		75 - 125	20

Sample: MSD QC Batch: QC04745

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		1.10	mg/L	1	1	<0.01	110	4	75 - 125	20
Total Barium		2.16	mg/L	1	2	0.06	105	7	75 - 125	20
Total Cadmium		0.20	mg/L	1	0.20	<0.002	100	5	75 - 125	20
Total Chromium		0.43	mg/L	1	0.40	<0.005	107	7	75 - 125	20
Total Lead		1.03	mg/L	1	1	<0.01	103	6	75 - 125	20
Total Selenium		1.08	mg/L	1	1	<0.01	108	5	75 - 125	20
Total Silver		0.22	mg/L	1	0.20	<0.005	110	5	75 - 125	20

Sample: MS QC Batch: QC04761

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.99	mg/L	1	1	<0.01	99		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Barium		3.01	mg/L	1	2	1.1	95		75 - 125	20
Total Cadmium		0.18	mg/L	1	0.20	<0.002	90		75 - 125	20
Total Chromium		0.38	mg/L	1	0.40	<0.005	95		75 - 125	20
Total Lead		0.91	mg/L	1	1	<0.01	91		75 - 125	20
Total Selenium		0.94	mg/L	1	1	<0.01	94		75 - 125	20
Total Silver		0.22	mg/L	1	0.20	<0.005	110		75 - 125	20

Sample: MSD QC Batch: QC04761

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.98	mg/L	1	1	<0.01	98	1	75 - 125	20
Total Barium		3.00	mg/L	1	2	1.1	95	0	75 - 125	20
Total Cadmium		0.18	mg/L	1	0.20	<0.002	90	0	75 - 125	20
Total Chromium		0.37	mg/L	1	0.40	<0.005	92	3	75 - 125	20
Total Lead		0.90	mg/L	1	1	<0.01	90	1	75 - 125	20
Total Selenium		0.91	mg/L	1	1	<0.01	91	3	75 - 125	20
Total Silver		0.21	mg/L	1	0.20	<0.005	105	5	75 - 125	20

Sample: MS QC Batch: QC04763

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00105	mg/L	1	0.001	<0.0002	105		80 - 120	20

Sample: MSD QC Batch: QC04763

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00107	mg/L	1	0.001	<0.0002	107	2	80 - 120	20

Quality Control Report
Duplicate Samples

Sample: Duplicate QC Batch: QC04651

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1988	2000	mg/L	1	1	20

Sample: Duplicate QC Batch: QC04652

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		2020	2000	mg/L	1	1	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04651

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	959	95	80 - 120	9/1/00

Sample: ICV (1) QC Batch: QC04651

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	964	96	80 - 120	9/1/00

Sample: CCV (1) QC Batch: QC04652

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	964	96	80 - 120	9/1/00

Sample: ICV (1) QC Batch: QC04652

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	959	95	80 - 120	9/1/00

Sample: CCV (1) QC Batch: QC04661

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.099	99	80 - 120	9/2/00
Toluene		mg/L	0.10	0.1	100	80 - 120	9/2/00
Ethylbenzene		mg/L	0.10	0.098	98	80 - 120	9/2/00
M,P,O-Xylene		mg/L	0.30	0.29	96	80 - 120	9/2/00

Sample: CCV (2) QC Batch: QC04661

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.095	95	80 - 120	9/2/00
Toluene		mg/L	0.10	0.096	96	80 - 120	9/2/00
Ethylbenzene		mg/L	0.10	0.092	92	80 - 120	9/2/00
M,P,O-Xylene		mg/L	0.30	0.276	92	80 - 120	9/2/00

Sample: ICV (1) QC Batch: QC04661

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.1	100	80 - 120	9/2/00
Toluene		mg/L	0.10	0.102	102	80 - 120	9/2/00
Ethylbenzene		mg/L	0.10	0.102	102	80 - 120	9/2/00
M,P,O-Xylene		mg/L	0.30	0.306	102	80 - 120	9/2/00

Sample: CCV (1) QC Batch: QC04674

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.099	99	80 - 120	9/3/00
Toluene		mg/L	0.10	0.099	99	80 - 120	9/3/00
Ethylbenzene		mg/L	0.10	0.099	99	80 - 120	9/3/00
M,P,O-Xylene		mg/L	0.30	0.298	99	80 - 120	9/3/00

Sample: CCV (2) QC Batch: QC04674

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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	0.101	101	80 - 120	9/3/00
Toluene		mg/L	0.10	0.1	100	80 - 120	9/3/00
Ethylbenzene		mg/L	0.10	0.1	100	80 - 120	9/3/00
M,P,O-Xylene		mg/L	0.30	0.3	100	80 - 120	9/3/00

Sample: ICV (1)

QC Batch: QC04674

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.1	100	80 - 120	9/3/00
Toluene		mg/L	0.10	0.101	101	80 - 120	9/3/00
Ethylbenzene		mg/L	0.10	0.1	100	80 - 120	9/3/00
M,P,O-Xylene		mg/L	0.30	0.302	100	80 - 120	9/3/00

Sample: CCV (1)

QC Batch: QC04681

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: ICV (1)

QC Batch: QC04681

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: CCV (1)

QC Batch: QC04682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	12.18	97	80 - 120	9/4/00

Sample: ICV (1) QC Batch: QC04682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: CCV (1) QC Batch: QC04690

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00098	98	80 - 120	8/31/00

Sample: ICV (1) QC Batch: QC04690

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00092	92	80 - 120	8/31/00

Sample: CCV (1) QC Batch: QC04745

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.60	104	75 - 125	9/6/00
Total Barium		mg/L	5	5.07	101	75 - 125	9/6/00
Total Cadmium		mg/L	0.50	0.51	102	75 - 125	9/6/00
Total Chromium		mg/L	1	1.00	100	75 - 125	9/6/00
Total Lead		mg/L	2.50	2.53	101	75 - 125	9/6/00
Total Selenium		mg/L	2.50	2.68	107	75 - 125	9/6/00
Total Silver		mg/L	0.50	0.50	100	75 - 125	9/6/00

Sample: ICV (1) QC Batch: QC04745

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.59	103	75 - 125	9/6/00
Total Barium		mg/L	5	5.14	102	75 - 125	9/6/00
Total Cadmium		mg/L	0.50	0.52	104	75 - 125	9/6/00
Total Chromium		mg/L	1	1.02	102	75 - 125	9/6/00
Total Lead		mg/L	2.50	2.56	102	75 - 125	9/6/00
Total Selenium		mg/L	2.50	2.66	106	75 - 125	9/6/00

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.50	0.51	102	75 - 125	9/6/00

Sample: CCV (1)

QC Batch: QC04761

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.60	104	75 - 125	9/5/00
Total Barium		mg/L	5	5.07	101	75 - 125	9/5/00
Total Cadmium		mg/L	0.50	0.51	102	75 - 125	9/5/00
Total Chromium		mg/L	1	1.00	100	75 - 125	9/5/00
Total Lead		mg/L	2.50	2.53	101	75 - 125	9/5/00
Total Selenium		mg/L	2.50	2.68	107	75 - 125	9/5/00
Total Silver		mg/L	0.50	0.50	100	75 - 125	9/5/00

Sample: ICV (1)

QC Batch: QC04761

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.54	101	75 - 125	9/5/00
Total Barium		mg/L	5	5.04	100	75 - 125	9/5/00
Total Cadmium		mg/L	0.50	0.50	100	75 - 125	9/5/00
Total Chromium		mg/L	1	1.00	100	75 - 125	9/5/00
Total Lead		mg/L	2.50	2.51	100	75 - 125	9/5/00
Total Selenium		mg/L	2.50	2.61	104	75 - 125	9/5/00
Total Silver		mg/L	0.50	0.50	100	75 - 125	9/5/00

Sample: CCV (1)

QC Batch: QC04763

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	8/31/00

Sample: ICV (1)

QC Batch: QC04763

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00092	92	80 - 120	8/31/00

152501-12

A00008300G

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: 1 OF: 2

CLIENT NAME: Texaco E + P

SITE MANAGER: Ike Tavarez

PROJECT NO.: 786

PROJECT NAME: Eunice South Gas Plant Lea Co., NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/624	GC-MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
152501	8/25/00	1045	W			TMW-3	4	Y		X	X		X				X									X			
502	8/25/00	1120	W			TMW-5	4	Y		X	X		X				X									X			
503	8/25/00	1006	W			TMW-6	4	Y		X	X		X				X									X			
504	8/25/00	1435	W			MW-9	4	Y		X	X		X				X									X			
505	8/25/00	1350	W			MW-10	4	Y		X	X		X				X									X			
506	8/25/00	1310	W			MW-11	4	Y		X	X		X				X									X			
507	8/25/00	1210	W			MW-12	4	Y		X	X		X				X									X			
508	8/28/00	1000	W			MW-19	4	Y		X	X		X				X									X			
509	8/28/00	1450	W			WW-1	4	Y		X	X		X				X									X			
510	8/28/00	1240	W			WW-3	4	Y		X	X		X				X									X			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Tom Ward — Date: 8/29/00 Time: 12:25PM

RECEIVED BY: (Signature) Allen Shelton — Date: 8/29/00 Time: 3:35PM

SAMPLED BY: (Print & Sign) Tim Reed / Ike Tavarez — Date: 8/25 & 8/28/00 Time:

RELINQUISHED BY: (Signature) Allen Shelton — Date: 8/29/00 Time: 6:30PM

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS Greyhound — AIRBILL #: — OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

HAND DELIVERED

RECEIVING LABORATORY: Trace Analysis

ADDRESS: Lubbock STATE: TX ZIP:

CITY: CONTACT: PHONE:

RECEIVED BY: (Signature) Vicki Dinsler

DATE: 8-30-00 TIME: 10:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes (No)

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: (W-Water) S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS:

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

915-263-8737

MS Dr Analysis, Inc

9/8

A0008300 4

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: 2

CLIENT NAME: Texaco E&P

SITE MANAGER: Ike Tavarez

PROJECT NO.: 186

PROJECT NAME: Eunice South Gas Plant
Lea Co., NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
152511	8/28/00	1350	W			WW-5	4	Y		X	X		X				X									X			
512	8/28/00	1135	W			WW-7	4	Y		X	X		X				X									X			

RELINQUISHED BY: (Signature) Tina La Ward — Date: 8/29/00 Time: 2:35PM

RECEIVED BY: (Signature) Helen Shelton — Date: 8/29/00 Time: 3:35 PM

SAMPLED BY: (Print & Sign) Linked Tavarez — Date: 8/25 & 8/28/00 Time:

RELINQUISHED BY: (Signature) Helen Shelton — Date: 8/29/00 Time: 10:30PM

RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED — AIRBILL #: Greyhound — OTHER:

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Lubbock STATE: TX ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Vicki Hensley
DATE: 8.30.00 TIME: 10:00

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes (No)

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: (W-Water) A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS:

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

1° Rush – 1 [illegible]

MS & Samples – H.S

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: September 25, 2000

Order ID Number: A00082810

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
152339	MW-8	Water	8/23/00	16:00	8/28/00
152340	MW-13	Water	8/23/00	14:20	8/28/00
152341	MW-14	Water	8/23/00	15:20	8/28/00
152342	MW-15	Water	8/23/00	10:30	8/28/00
152343	MW-16	Water	8/23/00	11:15	8/28/00
152344	TMW-1	Water	8/23/00	16:15	8/28/00
152345	MW-3	Water	8/23/00	13:55	8/28/00
152346	MW-4	Water	8/23/00	13:10	8/28/00
152347	MW-6	Water	8/23/00	15:30	8/28/00
152348	MW-7	Water	8/23/00	14:45	8/28/00
152349	MW-17	Water	8/23/00	12:15	8/28/00
152350	MW-18	Water	8/23/00	11:10	8/28/00

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.

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 152339 - MW-8

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.002	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		0.002	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.126	mg/L	1	0.10	126	72 - 128
4-BFB		0.108	mg/L	1	0.10	108	72 - 128

Sample: 152339 - MW-8

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04689	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04080	Date Prepared:	8/31/00

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

Sample: 152339 - MW-8

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04680	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		430	mg/L	1	0.50

Sample: 152339 - MW-8

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04610	Date Analyzed:	8/30/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04014	Date Prepared:	8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[1]	1500	mg/L	1	10

Sample: 152339 - MW-8

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04687	Date Analyzed:	8/31/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03969	Date Prepared:	8/31/00

[1] sample ran at a x2 dilution

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

Sample: 152340 - MW-13

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.085	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		0.004	mg/L	1	0.001
M,P,O-Xylene		0.001	mg/L	1	0.001
Total BTEX		0.09	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.126	mg/L	1	0.10	126	72 - 128
4-BFB		0.109	mg/L	1	0.10	109	72 - 128

Sample: 152340 - MW-13

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04689	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04080	Date Prepared:	8/31/00

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

Sample: 152340 - MW-13

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04680	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		390	mg/L	1	0.50

Sample: 152340 - MW-13

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04610	Date Analyzed:	8/30/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04014	Date Prepared:	8/29/00

Continued ...

... Continued Sample: 152340 Analysis: TDS

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[2]	1200	mg/L	1	10

Sample: 152340 - MW-13

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04687 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		1.4	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		<0.05	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05
Total Selenium		<0.05	mg/L	1	0.05
Total Silver		<0.05	mg/L	1	0.05

Sample: 152341 - MW-14

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04672 | Date Analyzed: 9/1/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04068 | Date Prepared: 9/1/00

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		0.123	mg/L	1	0.10	123	72 - 128
4-BFB		0.111	mg/L	1	0.10	111	72 - 128

Sample: 152341 - MW-14

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04689 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04080 | Date Prepared: 8/31/00

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

[2] sample ran at a x2 dilution

Sample: 152341 - MW-14

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC04680 Date Analyzed: 9/4/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04074 Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		300	mg/L	1	0.50

Sample: 152341 - MW-14

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC04610 Date Analyzed: 8/30/00
Analyst: LD Preparation Method: N/A Prep Batch: PB04014 Date Prepared: 8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[3]	1100	mg/L	1	10

Sample: 152341 - MW-14

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC04687 Date Analyzed: 8/31/00
Analyst: RR Preparation Method: E 3010A Prep Batch: PB03969 Date Prepared: 8/31/00

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

Sample: 152342 - MW-15

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC04672 Date Analyzed: 9/1/00
Analyst: RC Preparation Method: 5035 Prep Batch: PB04068 Date Prepared: 9/1/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.004	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		0.004	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.151	mg/L	1	0.10	151	72 - 128
4-BFB		0.124	mg/L	1	0.10	124	72 - 128

[3] sample ran at a x2 dilution

Sample: 152342 - MW-15

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04689	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04080	Date Prepared:	8/31/00

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

Sample: 152342 - MW-15

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04680	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		2600	mg/L	1	0.50

Sample: 152342 - MW-15

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04610	Date Analyzed:	8/30/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04014	Date Prepared:	8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[4]	5500	mg/L	1	10

Sample: 152342 - MW-15

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04687	Date Analyzed:	8/31/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03969	Date Prepared:	8/31/00

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

Sample: 152343 - MW-16

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

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

[4] sample ran at a x5 dilution

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.602	mg/L	1	0.10	120	72 - 128
4-BFB		0.536	mg/L	1	0.10	107	72 - 128

Sample: 152343 - MW-16

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04689 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04080 | Date Prepared: 8/31/00

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

Sample: 152343 - MW-16

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04680 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		1900	mg/L	1	0.50

Sample: 152343 - MW-16

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC04610 | Date Analyzed: 8/30/00
Analyst: LD | Preparation Method: N/A | Prep Batch: PB04014 | Date Prepared: 8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[5]	4100	mg/L	1	10

Sample: 152343 - MW-16

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04687 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		<0.10	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		0.16	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05
Total Selenium		<0.05	mg/L	1	0.05
Total Silver		<0.05	mg/L	1	0.05

Sample: 152344 - TMW-1

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04672 | Date Analyzed: 9/1/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04068 | Date Prepared: 9/1/00

[5] sample ran at a x5 dilution

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		0.555	mg/L	1	0.10	111	72 - 128
4-BFB		0.507	mg/L	1	0.10	101	72 - 128

Sample: 152344 - TMW-1

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04689 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04080 | Date Prepared: 8/31/00

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

Sample: 152344 - TMW-1

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04680 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		430	mg/L	1	0.50

Sample: 152344 - TMW-1

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC04610 | Date Analyzed: 8/30/00
Analyst: LD | Preparation Method: N/A | Prep Batch: PB04014 | Date Prepared: 8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[6]	1300	mg/L	1	10

Sample: 152344 - TMW-1

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04687 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		0.58	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		<0.05	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05

Continued ...

[6] sample ran at a x2 dilution

... *Continued* Sample: 152344 Analysis: Total Metals

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

Sample: 152345 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

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		0.581	mg/L	1	0.10	116	72 - 128
4-BFB		0.514	mg/L	1	0.10	102	72 - 128

Sample: 152345 - MW-3

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04689	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04080	Date Prepared:	8/31/00

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

Sample: 152345 - MW-3

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04680	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		530	mg/L	1	0.50

Sample: 152345 - MW-3

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04610	Date Analyzed:	8/30/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04014	Date Prepared:	8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[7]	1400	mg/L	1	10

[7] sample ran at a x2 dilution

Sample: 152345 - MW-3

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04687 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		0.15	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		<0.05	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05
Total Selenium		<0.05	mg/L	1	0.05
Total Silver		<0.05	mg/L	1	0.05

Sample: 152346 - MW-4

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04672 | Date Analyzed: 9/1/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04068 | Date Prepared: 9/1/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.052	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		0.052	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.122	mg/L	1	0.10	122	72 - 128
4-BFB		0.105	mg/L	1	0.10	105	72 - 128

Sample: 152346 - MW-4

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04689 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04080 | Date Prepared: 8/31/00

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

Sample: 152346 - MW-4

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04682 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		7100	mg/L	1	0.50

Sample: 152346 - MW-4

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04610	Date Analyzed:	8/30/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04014	Date Prepared:	8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[8]	13000	mg/L	1	10

Sample: 152346 - MW-4

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04687	Date Analyzed:	8/31/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03969	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		0.15	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		<0.05	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05
Total Selenium		<0.05	mg/L	1	0.05
Total Silver		<0.05	mg/L	1	0.05

Sample: 152347 - MW-6

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.012	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		0.012	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.124	mg/L	1	0.10	124	72 - 128
4-BFB		0.107	mg/L	1	0.10	107	72 - 128

Sample: 152347 - MW-6

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04689	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04080	Date Prepared:	8/31/00

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

[8] sample ran at a x10 dilution

Sample: 152347 - MW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC04680 Date Analyzed: 9/4/00
Analyst: JS Preparation Method: N/A Prep Batch: PB04074 Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		33,000	mg/L	1	0.50

Sample: 152347 - MW-6

Analysis: TDS Analytical Method: E 160.1 QC Batch: QC04610 Date Analyzed: 8/30/00
Analyst: LD Preparation Method: N/A Prep Batch: PB04014 Date Prepared: 8/29/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[9]	54000	mg/L	1	10

Sample: 152347 - MW-6

Analysis: Total Metals Analytical Method: S 6010B QC Batch: QC04688 Date Analyzed: 8/31/00
Analyst: RR Preparation Method: E 3010A Prep Batch: PB03969 Date Prepared: 8/31/00

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

Sample: 152348 - MW-7

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC04672 Date Analyzed: 9/1/00
Analyst: RC Preparation Method: 5035 Prep Batch: PB04068 Date Prepared: 9/1/00

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		0.126	mg/L	1	0.10	126	72 - 128
4-BFB		0.11	mg/L	1	0.10	110	72 - 128

[9] sample ran at a x50 dilution

Sample: 152348 - MW-7

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC04690	Date Analyzed:	8/31/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04081	Date Prepared:	8/31/00

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

Sample: 152348 - MW-7

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC04680	Date Analyzed:	9/4/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB04074	Date Prepared:	9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		380	mg/L	1	0.50

Sample: 152348 - MW-7

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC04611	Date Analyzed:	8/31/00
Analyst:	LD	Preparation Method:	N/A	Prep Batch:	PB04015	Date Prepared:	8/30/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[10]	1900	mg/L	1	10

Sample: 152348 - MW-7

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04688	Date Analyzed:	8/31/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB03969	Date Prepared:	8/31/00

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

Sample: 152349 - MW-17

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04672	Date Analyzed:	9/1/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04068	Date Prepared:	9/1/00

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

[10] sample ran at a x2 dilution

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.44	mg/L	1	0.10	88	72 - 128
4-BFB		0.395	mg/L	1	0.10	79	72 - 128

Sample: 152349 - MW-17

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04690 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04081 | Date Prepared: 8/31/00

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

Sample: 152349 - MW-17

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04681 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		5700	mg/L	1	0.50

Sample: 152349 - MW-17

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC04611 | Date Analyzed: 8/31/00
Analyst: LD | Preparation Method: N/A | Prep Batch: PB04015 | Date Prepared: 8/30/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[11]	11000	mg/L	1	10

Sample: 152349 - MW-17

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04688 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

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

Sample: 152350 - MW-18

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC04672 | Date Analyzed: 9/1/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04068 | Date Prepared: 9/1/00

[11] sample ran at a x10 dilution

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		0.535	mg/L	1	0.10	107	72 - 128
4-BFB		0.465	mg/L	1	0.10	93	72 - 128

Sample: 152350 - MW-18

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC04690 | Date Analyzed: 8/31/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04081 | Date Prepared: 8/31/00

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

Sample: 152350 - MW-18

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC04681 | Date Analyzed: 9/4/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB04074 | Date Prepared: 9/4/00

Param	Flag	Result	Units	Dilution	RDL
CL		5000	mg/L	1	0.50

Sample: 152350 - MW-18

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC04611 | Date Analyzed: 8/31/00
Analyst: LD | Preparation Method: N/A | Prep Batch: PB04015 | Date Prepared: 8/30/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids	[12]	7800	mg/L	1	10

Sample: 152350 - MW-18

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC04688 | Date Analyzed: 8/31/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB03969 | Date Prepared: 8/31/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<0.10	mg/L	1	0.10
Total Barium		0.11	mg/L	1	0.10
Total Cadmium		<0.01	mg/L	1	0.01
Total Chromium		<0.05	mg/L	1	0.05
Total Lead		<0.05	mg/L	1	0.05

Continued ...

[12] sample ran at a x10 dilution

... Continued Sample: 152350 Analysis: Total Metals

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

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04610

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids	[13]	14	mg/L	10

Sample: Method Blank QCBatch: QC04611

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Sample: Method Blank QCBatch: QC04672

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

Sample: Method Blank QCBatch: QC04680

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC04681

[13] the blank was a little high. There were specs in the crucible which may have come from either the glassware or the oven .

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC04682

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC04687

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

Sample: Method Blank QCBatch: QC04688

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

Sample: Method Blank QCBatch: QC04689

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

Sample: Method Blank QCBatch: QC04690

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

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04672

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.114	mg/L	1	0.10	<0.001	114	1	80 - 120	20
Benzene		0.112	mg/L	1	0.10	<0.001	112	1	80 - 120	20
Toluene		0.108	mg/L	1	0.10	<0.001	108	2	80 - 120	20
Ethylbenzene		0.106	mg/L	1	0.10	<0.001	106	4	80 - 120	20
M,P,O-Xylene		0.356	mg/L	1	0.30	<0.001	118	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.116	mg/L	1	0.10	116	72 - 128
4-BFB		0.107	mg/L	1	0.10	107	72 - 128

Sample: LCSD QC Batch: QC04672

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.114	mg/L	1	0.10	<0.001	114	0	80 - 120	20
Benzene		0.113	mg/L	1	0.10	<0.001	113	1	80 - 120	20
Toluene		0.11	mg/L	1	0.10	<0.001	110	2	80 - 120	20
Ethylbenzene		0.108	mg/L	1	0.10	<0.001	108	2	80 - 120	20
M,P,O-Xylene		0.358	mg/L	1	0.30	<0.001	119	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.118	mg/L	1	0.10	118	72 - 128
4-BFB		0.109	mg/L	1	0.10	109	72 - 128

Sample: LCS QC Batch: QC04681

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL	[14]	11.53	mg/L	1	12.50	<0.5	92		80 - 120	20

Sample: LCSD QC Batch: QC04681

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL	[15]	11.43	mg/L	1	12.50	<0.5	91	1	80 - 120	20

Sample: LCS QC Batch: QC04687

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Aluminum		1.76	mg/L	1	2	<0.10	88		75 - 125	20
Total Arsenic		0.90	mg/L	1	1	<0.10	90		75 - 125	20
Total Barium		1.93	mg/L	1	2	<0.10	96		75 - 125	20
Total Boron		0.82	mg/L	1	1	<0.10	82		75 - 125	20
Total Cadmium		0.19	mg/L	1	0.20	<0.01	95		75 - 125	20
Total Chromium		0.38	mg/L	1	0.40	<0.05	95		75 - 125	20
Total Cobalt		0.96	mg/L	1	1	<0.05	96		75 - 125	20
Total Copper		0.37	mg/L	1	0.40	<0.10	92		75 - 125	20
Total Iron		1.91	mg/L	1	2	<0.10	95		75 - 125	20
Total Lead		0.93	mg/L	1	1	<0.05	93		75 - 125	20
Total Manganese		0.19	mg/L	1	0.20	<0.10	95		75 - 125	20
Total Molybdenum		0.96	mg/L	1	1	<0.10	96		75 - 125	20
Total Nickel		0.92	mg/L	1	1	<0.10	92		75 - 125	20
Total Selenium		0.78	mg/L	1	1	<0.05	78		75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90		75 - 125	20
Total Zinc		0.19	mg/L	1	0.20	<0.10	95		75 - 125	20

Sample: LCSD QC Batch: QC04687

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Aluminum		1.78	mg/L	1	2	<0.10	89	1	75 - 125	20
Total Arsenic		0.90	mg/L	1	1	<0.10	90	0	75 - 125	20
Total Barium		1.94	mg/L	1	2	<0.10	97	0	75 - 125	20
Total Boron		0.83	mg/L	1	1	<0.10	83	1	75 - 125	20
Total Cadmium		0.19	mg/L	1	0.20	<0.01	95	0	75 - 125	20
Total Chromium		0.38	mg/L	1	0.40	<0.05	95	0	75 - 125	20

Continued ...

[14] Blank spikes used because the matrix spikes %EA was outside the control limit.
[15] Blank spikes used because the matrix spikes %EA was outside the control limit.

... *Continued*

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cobalt		0.96	mg/L	1	1	<0.05	96	0	75 - 125	20
Total Copper		0.37	mg/L	1	0.40	<0.10	92	0	75 - 125	20
Total Iron		1.93	mg/L	1	2	<0.10	96	1	75 - 125	20
Total Lead		0.94	mg/L	1	1	<0.05	94	1	75 - 125	20
Total Manganese		0.19	mg/L	1	0.20	<0.10	95	0	75 - 125	20
Total Molybdenum		0.96	mg/L	1	1	<0.10	96	0	75 - 125	20
Total Nickel		0.92	mg/L	1	1	<0.10	92	0	75 - 125	20
Total Selenium		0.80	mg/L	1	1	<0.05	80	2	75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90	0	75 - 125	20
Total Zinc		0.19	mg/L	1	0.20	<0.10	95	0	75 - 125	20

Sample: LCS QC Batch: QC04688

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.90	mg/L	1	1	<0.10	90		75 - 125	20
Total Barium		1.93	mg/L	1	2	<0.10	96		75 - 125	20
Total Cadmium		0.19	mg/L	1	0.20	<0.01	95		75 - 125	20
Total Chromium		0.38	mg/L	1	0.40	<0.05	95		75 - 125	20
Total Lead		0.93	mg/L	1	1	<0.05	93		75 - 125	20
Total Selenium		0.78	mg/L	1	1	<0.05	78		75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90		75 - 125	20

Sample: LCSD QC Batch: QC04688

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.90	mg/L	1	1	<0.10	90	0	75 - 125	20
Total Barium		1.94	mg/L	1	2	<0.10	97	0	75 - 125	20
Total Cadmium		0.19	mg/L	1	0.20	<0.01	95	0	75 - 125	20
Total Chromium		0.38	mg/L	1	0.40	<0.05	95	0	75 - 125	20
Total Lead		0.94	mg/L	1	1	<0.05	94	1	75 - 125	20
Total Selenium		0.80	mg/L	1	1	<0.05	80	2	75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90	0	75 - 125	20

Sample: LCS QC Batch: QC04689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00099	mg/L	1	0.001	<0.0002	99		80 - 120	20

Sample: LCSD QC Batch: QC04689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00094	mg/L	1	0.001	<0.0002	94	5	80 - 120	20

Sample: LCS QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00099	mg/L	1	0.001	<0.0002	99		80 - 120	20

Sample: LCSD QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00094	mg/L	1	0.001	<0.0002	94	5	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC04680

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		981.49	mg/L	1	625	380	96		80 - 120	20

Sample: MSD QC Batch: QC04680

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		983.60	mg/L	1	625	380	96	0	80 - 120	20

Sample: MS QC Batch: QC04682

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		257.53	mg/L	1	125	130	102		80 - 120	20

Sample: MSD QC Batch: QC04682

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		257.00	mg/L	1	125	130	101	0	80 - 120	20

Sample: MS QC Batch: QC04687

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.88	mg/L	1	1	<0.10	88		75 - 125	20
Total Barium		1.86	mg/L	1	2	0.15	85		75 - 125	20
Total Cadmium		0.17	mg/L	1	0.20	<0.01	85		75 - 125	20
Total Chromium		0.35	mg/L	1	0.40	<0.05	87		75 - 125	20
Total Lead		0.85	mg/L	1	1	<0.05	85		75 - 125	20
Total Selenium		0.77	mg/L	1	1	<0.05	77		75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90		75 - 125	20

Sample: MSD QC Batch: QC04687

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.87	mg/L	1	1	<0.10	87	1	75 - 125	20
Total Barium		1.84	mg/L	1	2	0.15	84	1	75 - 125	20
Total Cadmium		0.17	mg/L	1	0.20	<0.01	85	0	75 - 125	20
Total Chromium		0.35	mg/L	1	0.40	<0.05	87	0	75 - 125	20
Total Lead		0.84	mg/L	1	1	<0.05	84	1	75 - 125	20
Total Selenium		0.77	mg/L	1	1	<0.05	77	0	75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90	0	75 - 125	20

Sample: MS QC Batch: QC04688

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.82	mg/L	1	1	<0.10	82		75 - 125	20
Total Barium		1.56	mg/L	1	2	<0.10	78		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Cadmium		0.16	mg/L	1	0.20	<0.01	80		75 - 125	20
Total Chromium		0.35	mg/L	1	0.40	<0.05	87		75 - 125	20
Total Lead		0.76	mg/L	1	1	<0.05	76		75 - 125	20
Total Selenium		0.76	mg/L	1	1	<0.05	76		75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90		75 - 125	20

Sample: MSD QC Batch: QC04688

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.83	mg/L	1	1	<0.10	83	1	75 - 125	20
Total Barium		1.57	mg/L	1	2	<0.10	78	1	75 - 125	20
Total Cadmium		0.16	mg/L	1	0.20	<0.01	80	0	75 - 125	20
Total Chromium		0.35	mg/L	1	0.40	<0.05	87	0	75 - 125	20
Total Lead		0.76	mg/L	1	1	<0.05	76	0	75 - 125	20
Total Selenium		0.76	mg/L	1	1	<0.05	76	0	75 - 125	20
Total Silver		0.18	mg/L	1	0.20	<0.05	90	0	75 - 125	20

Sample: MS QC Batch: QC04689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00097	mg/L	1	0.001	0.0002	77		80 - 120	20

Sample: MSD QC Batch: QC04689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00098	mg/L	1	0.001	0.0002	78	1	80 - 120	20

Sample: MS QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00097	mg/L	1	0.001	<0.0002	97		80 - 120	20

Sample: MSD QC Batch: QC04690

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00097	mg/L	1	0.001	<0.0002	97	0	80 - 120	20

Quality Control Report
Duplicate Samples

Sample: Duplicate QC Batch: QC04610

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1268	1300	mg/L	1	2	20

Sample: Duplicate QC Batch: QC04611

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1182	<10	mg/L	1	2	20
Total Dissolved Solids		1182	1200	mg/L	1	2	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04610

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	974	97	80 - 120	8/30/00

Sample: ICV (1) QC Batch: QC04610

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	976	97	80 - 120	8/30/00

Sample: CCV (1)

QC Batch: QC04611

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	996	99	80 - 120	8/31/00

Sample: ICV (1)

QC Batch: QC04611

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	995	99	80 - 120	8/31/00

Sample: CCV (1)

QC Batch: QC04672

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.12	120	80 - 120	9/1/00
Toluene		mg/L	0.10	0.115	115	80 - 120	9/1/00
Ethylbenzene		mg/L	0.10	0.113	113	80 - 120	9/1/00
M,P,O-Xylene		mg/L	0.30	0.354	118	80 - 120	9/1/00

Sample: CCV (2)

QC Batch: QC04672

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.107	107	80 - 120	9/1/00
Toluene		mg/L	0.10	0.1	100	80 - 120	9/1/00
Ethylbenzene		mg/L	0.10	0.102	102	80 - 120	9/1/00
M,P,O-Xylene		mg/L	0.30	0.336	112	80 - 120	9/1/00

Sample: ICV (1)

QC Batch: QC04672

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.10	0.112	112	80 - 120	9/1/00
Toluene		mg/L	0.10	0.109	109	80 - 120	9/1/00
Ethylbenzene		mg/L	0.10	0.107	107	80 - 120	9/1/00
M,P,O-Xylene		mg/L	0.30	0.357	119	80 - 120	9/1/00

Sample: CCV (1) QC Batch: QC04680

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: ICV (1) QC Batch: QC04680

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.50	92	80 - 120	9/4/00

Sample: CCV (1) QC Batch: QC04681

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: ICV (1) QC Batch: QC04681

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: CCV (1) QC Batch: QC04682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	12.18	97	80 - 120	9/4/00

Sample: ICV (1) QC Batch: QC04682

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.53	92	80 - 120	9/4/00

Sample: CCV (1)

QC Batch: QC04687

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.34	93	75 - 125	8/31/00
Total Barium		mg/L	5	4.77	95	75 - 125	8/31/00
Total Cadmium		mg/L	0.50	0.48	96	75 - 125	8/31/00
Total Chromium		mg/L	1	0.94	94	75 - 125	8/31/00
Total Lead		mg/L	2.50	2.35	94	75 - 125	8/31/00
Total Selenium		mg/L	2.50	2.37	94	75 - 125	8/31/00
Total Silver		mg/L	0.50	0.47	94	75 - 125	8/31/00

Sample: ICV (1)

QC Batch: QC04687

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.41	96	75 - 125	8/31/00
Total Barium		mg/L	5	4.92	98	75 - 125	8/31/00
Total Cadmium		mg/L	0.50	0.49	98	75 - 125	8/31/00
Total Chromium		mg/L	1	0.97	97	75 - 125	8/31/00
Total Lead		mg/L	2.50	2.43	97	75 - 125	8/31/00
Total Selenium		mg/L	2.50	2.44	97	75 - 125	8/31/00
Total Silver		mg/L	0.50	0.48	96	75 - 125	8/31/00

Sample: CCV (1)

QC Batch: QC04688

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.34	93	75 - 125	8/31/00
Total Barium		mg/L	5	4.77	95	75 - 125	8/31/00
Total Cadmium		mg/L	0.50	0.48	96	75 - 125	8/31/00
Total Chromium		mg/L	1	0.94	94	75 - 125	8/31/00
Total Lead		mg/L	2.50	2.35	94	75 - 125	8/31/00
Total Selenium		mg/L	2.50	2.37	94	75 - 125	8/31/00
Total Silver		mg/L	0.50	0.47	94	75 - 125	8/31/00

Sample: ICV (1)

QC Batch: QC04688

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.36	94	75 - 125	8/31/00
Total Barium		mg/L	5	4.81	96	75 - 125	8/31/00
Total Cadmium		mg/L	0.50	0.48	96	75 - 125	8/31/00

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Chromium		mg/L	1	0.95	95	75 - 125	8/31/00
Total Lead		mg/L	2.50	2.37	94	75 - 125	8/31/00
Total Selenium		mg/L	2.50	2.39	95	75 - 125	8/31/00
Total Silver		mg/L	0.50	0.47	94	75 - 125	8/31/00

Sample: CCV (1) QC Batch: QC04689

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00097	97	80 - 120	8/31/00

Sample: ICV (1) QC Batch: QC04689

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00092	92	80 - 120	8/31/00

Sample: CCV (1) QC Batch: QC04690

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00098	98	80 - 120	8/31/00

Sample: ICV (1) QC Batch: QC04690

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00092	92	80 - 120	8/31/00

152339-50

A0008285O

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: 1 OF: 2

CLIENT NAME: Texaco E&P

SITE MANAGER: Ike Tavarez

PROJECT NO.: 786

PROJECT NAME: Eunice South Gas Plant
Lea Co., NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
152339	8/23/00	4:00	W			MW-8	4	X	~~X~~	X	X		X				X									X			
40	8/23/00	2:20	W			MW-13	4	X		X	X		X				X									X			
41	8/23/00	3:20	W			MW-14	4	X		X	X		X				X									X			
42	8/23/00	10:30	W			MW-15	4	X		X	X		X				X									X			
43	8/23/00	11:15	W			MW-16	4	X		X	X		X				X									X			
44	8/24/00	4:15	W			TMW-1	4	X		X	X		X				X									X			
45	8/24/00	1:55	W			MW-3	4	X		X	X		X				X									X			
46	8/24/00	1:10	W			MW-4	4	X		X	X		X				X									X			
47	8/24/00	3:30	W			MW-6	4	X		X	X		X				X									X			
48	8/24/00	2:45	W			MW-7	4	X		X	X		X				X									X			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) — Date: 8/25/00 Time: 4:20 PM
RECEIVED BY: (Signature) Helen Shelton — Date: 8/25/00 Time: 4:20 PM
SAMPLED BY: (Print & Sign) TE Tavarez Ryne Hall — Date: — Time:

RELINQUISHED BY: (Signature) Helen Shelton — Date: 8/25/00 Time: 6:32 PM
RECEIVED BY: (Signature) — Date: — Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED — AIRBILL #: Greyhound — OTHER:

RELINQUISHED BY: (Signature) — Date: — Time:
RECEIVED BY: (Signature) — Date: — Time:

RECEIVING LABORATORY: Trace Analysis
ADDRESS:
CITY: Lubbock STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Vicki Hensley
DATE: 8-26-00 TIME: 10:00 AM

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes (No)

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: (W-Water) S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: Bill 159384 8388 40

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 - HS mm

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: December 6, 2000

Order ID Number: A00113018

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
159793	MW-6	Water	11/28/00	:	11/30/00

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.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 159793 - MW-6

Analysis: Ion Chromatography (IC) Analytical Method: E 300.0 QC Batch: QC07064 Date Analyzed: 12/1/00
Analyst: JS Preparation Method: N/A Prep Batch: PB06189 Date Prepared: 12/1/00

Param	Flag	Result	Units	Dilution	RDL
CL		16000	mg/L	1	0.50

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC07064

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC07064

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		11.64	mg/L	1	12.50	<0.5	93		80 - 120	20
Fluoride		2.40	mg/L	1	2.50	<0.2	96		80 - 120	20
Nitrate-N		2.40	mg/L	1	2.50	<0.2	96		80 - 120	20
Sulfate		11.80	mg/L	1	12.50	<0.5	94		80 - 120	20

Sample: LCSD QC Batch: QC07064

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		11.66	mg/L	1	12.50	<0.5	93	0	80 - 120	20
Fluoride		2.45	mg/L	1	2.50	<0.2	98	2	80 - 120	20
Nitrate-N		2.42	mg/L	1	2.50	<0.2	96	1	80 - 120	20
Sulfate		11.92	mg/L	1	12.50	<0.5	95	1	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC07064

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		121.36	mg/L	1	62.50	63	93		80 - 120	20

Sample: MSD QC Batch: QC07064

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		121.34	mg/L	1	62.50	63	93	0	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC07064

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	80 - 120	12/1/00
CL		mg/L	12.50	11.57	92	80 - 120	12/1/00
Fluoride		mg/L	2.50	2.41	96	80 - 120	12/1/00
Nitrate-N		mg/L	2.50	2.40	96	80 - 120	12/1/00
Sulfate		mg/L	12.50	11.92	95	80 - 120	12/1/00

Sample: ICV (1) QC Batch: QC07064

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromide		mg/L	2.50	2.54	101	80 - 120	12/1/00
CL		mg/L	12.50	11.72	93	80 - 120	12/1/00
Fluoride		mg/L	2.50	2.41	96	80 - 120	12/1/00
Nitrate-N		mg/L	2.50	2.45	98	80 - 120	12/1/00
Sulfate		mg/L	12.50	11.97	95	80 - 120	12/1/00

159793

H00113018

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: 1 OF:

CLIENT NAME: TEXACO E & P. Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 786 PROJECT NAME: TEXACO / South Eunice Gas Plant Lea County. NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Chloride
159793	11/28/00		W			MW-6	1				✓	✓																		X

RELINQUISHED BY: (Signature) Date: 11/29/00 Time: 1400
RECEIVED BY: (Signature) Date: 11/29/00 Time: 1400
SAMPLED BY: (Print & Sign) IKE Tavarez Date: Time:

RELINQUISHED BY: (Signature) Date: 11/29/00 Time: 1800
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED Greyhound AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
HIGHLANDER CONTACT PERSON: IKE Tavarez Results by:

RECEIVING LABORATORY: Trace Lab.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Vicki Rivals
DATE: 11-30-00 TIME: 10:00
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: (W-Water) S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: 12/6/00

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

MS 1 sample - HS 1-163-572-4214-4

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: January 15, 2001

Order ID Number: A00122601

Project Number: 486
Project Name: Texaco South Gas Plant
Project Location: Eunice,New Mexico

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
161470	MW-22	Water	12/22/00	12:30	12/23/00
161471	MW-23	Water	12/22/00	14:00	12/23/00

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.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 161470 - MW-22

Analysis:	Alkalinity	Analytical Method:	E 310.1	QC Batch:	QC07728	Date Analyzed:	12/28/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB06759	Date Prepared:	12/28/00

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		961	mg/L as CaCo3	1	1
Total Alkalinity		961	mg/L as CaCo3	1	1

Sample: 161470 - MW-22

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC07862	Date Analyzed:	1/2/01
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB06879	Date Prepared:	1/2/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.403	mg/L	1	0.001
Toluene		0.024	mg/L	1	0.001
Ethylbenzene		0.022	mg/L	1	0.001
M,P,O-Xylene		0.009	mg/L	1	0.001
Total BTEX		0.457	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.101	mg/L	1	0.10	101	72 - 128
4-BFB		0.106	mg/L	1	0.10	106	72 - 128

Sample: 161470 - MW-22

Analysis:	Dissolved Metals	Analytical Method:	E 200.7	QC Batch:	QC07983	Date Analyzed:	1/4/01
Analyst:	SSC	Preparation Method:	E 3005A	Prep Batch:	PB06785	Date Prepared:	12/29/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		310	mg/L	1	0.05
Dissolved Magnesium		680	mg/L	1	0.50
Dissolved Potassium		1550	mg/L	1	0.50
Dissolved Sodium		18500	mg/L	1	0.50

Sample: 161470 - MW-22

Analysis:	Hardness	Analytical Method:	SM 2340B	QC Batch:	QC08121	Date Analyzed:	1/4/01
Analyst:	RR	Preparation Method:	N/A	Prep Batch:	PB07092	Date Prepared:	12/29/00

Param	Flag	Result	Units	Dilution	RDL
Hardness		3574	mg/L as CaCo3	1	1

Sample: 161470 - MW-22

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC07689	Date Analyzed:	12/27/00
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB06728	Date Prepared:	12/27/00

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

Sample: 161470 - MW-22

Analysis:	Ion Chromatography (IC)	Analytical Method:	E 300.0	QC Batch:	QC07684	Date Analyzed:	12/26/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB06725	Date Prepared:	12/26/00

Param	Flag	Result	Units	Dilution	RDL
CL		39000	mg/L	1	0.50
Fluoride		<10	mg/L	1	0.20
Nitrate-N	[1]	<10	mg/L	1	0.20
Sulfate		2100	mg/L	1	0.50

Sample: 161470 - MW-22

Analysis:	TDS	Analytical Method:	E 160.1	QC Batch:	QC07750	Date Analyzed:	12/28/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB06778	Date Prepared:	12/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		36000	mg/L	1	10

Sample: 161470 - MW-22

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC07695	Date Analyzed:	12/28/00
Analyst:	RR	Preparation Method:	E 3010A	Prep Batch:	PB06719	Date Prepared:	12/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.5	mg/L	5	0.10
Total Arsenic		<0.05	mg/L	5	0.01
Total Barium		0.25	mg/L	5	0.01
Total Boron		11.3	mg/L	5	0.50
Total Cadmium		<0.01	mg/L	5	0.002
Total Chromium		<0.05	mg/L	5	0.01
Total Cobalt		0.05	mg/L	5	0.01
Total Copper		<0.05	mg/L	5	0.01
Total Iron		<0.5	mg/L	5	0.10
Total Lead		<0.05	mg/L	5	0.01
Total Manganese		1.0	mg/L	5	0.01
Total Molybdenum		<0.50	mg/L	5	0.10
Total Nickel		0.07	mg/L	5	0.01
Total Selenium		<0.05	mg/L	5	0.01
Total Silica		11.5	mg/L	5	0.50
Total Silver		<0.05	mg/L	5	0.01
Total Zinc		<0.05	mg/L	5	0.01

[1] Sample out of hold time for NO3.

Sample: 161470 - MW-22

Analysis:	pH	Analytical Method:	E 150.1	QC Batch:	QC07793	Date Analyzed:	12/26/00
Analyst:	RS	Preparation Method:	N/A	Prep Batch:	PB06827	Date Prepared:	12/26/00

Param	Flag	Result	Units	Dilution	RDL
pH	[2]	6.9	s.u.	1	1

Sample: 161471 - MW-23

Analysis:	Alkalinity	Analytical Method:	E 310.1	QC Batch:	QC07728	Date Analyzed:	12/28/00
Analyst:	JS	Preparation Method:	N/A	Prep Batch:	PB06759	Date Prepared:	12/28/00

Param	Flag	Result	Units	Dilution	RDL
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1	1
Bicarbonate Alkalinity		464	mg/L as CaCo3	1	1
Total Alkalinity		464	mg/L as CaCo3	1	1

Sample: 161471 - MW-23

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC07862	Date Analyzed:	1/2/01
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB06879	Date Prepared:	1/2/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.006	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		0.007	mg/L	1	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.099	mg/L	1	0.10	99	72 - 128
4-BFB		0.085	mg/L	1	0.10	85	72 - 128

Sample: 161471 - MW-23

Analysis:	Dissolved Metals	Analytical Method:	E 200.7	QC Batch:	QC07983	Date Analyzed:	1/4/01
Analyst:	SSC	Preparation Method:	E 3005A	Prep Batch:	PB06785	Date Prepared:	12/29/00

Param	Flag	Result	Units	Dilution	RDL
Dissolved Calcium		344	mg/L	1	0.05
Dissolved Magnesium		367	mg/L	1	0.50
Dissolved Potassium		614	mg/L	1	0.50
Dissolved Sodium		9100	mg/L	1	0.50

Sample: 161471 - MW-23

Analysis:	Hardness	Analytical Method:	SM 2340B	QC Batch:	QC08121	Date Analyzed:	1/4/01
Analyst:	RR	Preparation Method:	N/A	Prep Batch:	PB07092	Date Prepared:	12/29/00

[2]Sample run out of holding time

Param	Flag	Result	Units	Dilution	RDL
Hardness		2370	mg/L as CaCo3	1	1

Sample: 161471 - MW-23

Analysis: Hg, Total | Analytical Method: S 7470A | QC Batch: QC07689 | Date Analyzed: 12/27/00
Analyst: SSC | Preparation Method: N/A | Prep Batch: PB06728 | Date Prepared: 12/27/00

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

Sample: 161471 - MW-23

Analysis: Ion Chromatography (IC) | Analytical Method: E 300.0 | QC Batch: QC07684 | Date Analyzed: 12/26/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB06725 | Date Prepared: 12/26/00

Param	Flag	Result	Units	Dilution	RDL
CL		17000	mg/L	1	0.50
Fluoride		<10	mg/L	1	0.20
Nitrate-N	[3]	10	mg/L	1	0.20
Sulfate		1300	mg/L	1	0.50

Sample: 161471 - MW-23

Analysis: TDS | Analytical Method: E 160.1 | QC Batch: QC07750 | Date Analyzed: 12/28/00
Analyst: JS | Preparation Method: N/A | Prep Batch: PB06778 | Date Prepared: 12/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Dissolved Solids		62000	mg/L	1	10

Sample: 161471 - MW-23

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC07695 | Date Analyzed: 12/28/00
Analyst: RR | Preparation Method: E 3010A | Prep Batch: PB06719 | Date Prepared: 12/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Aluminum		<0.50	mg/L	5	0.10
Total Arsenic		<0.05	mg/L	5	0.01
Total Barium		0.09	mg/L	5	0.01
Total Boron		6.04	mg/L	5	0.50
Total Cadmium		<0.01	mg/L	5	0.002
Total Chromium		<.05	mg/L	5	0.01
Total Cobalt		<0.05	mg/L	5	0.01
Total Copper		<0.05	mg/L	5	0.01
Total Iron		<0.50	mg/L	5	0.10
Total Lead		<0.05	mg/L	5	0.01
Total Manganese		0.46	mg/L	5	0.01
Total Molybdenum		<0.50	mg/L	5	0.10
Total Nickel		0.05	mg/L	5	0.01
Total Selenium		0.10	mg/L	5	0.01
Total Silica		17	mg/L	5	0.50

Continued ...

[3]Sample out of hold time for NO3.

... Continued Sample: 161471 Analysis: Total Metals

Param	Flag	Result	Units	Dilution	RDL
Total Silver		<0.05	mg/L	5	0.01
Total Zinc		<0.05	mg/L	5	0.01

Sample: 161471 - MW-23

Analysis:	pH	Analytical Method:	E 150.1	QC Batch:	QC07793	Date Analyzed:	12/26/00
Analyst:	RS	Preparation Method:	N/A	Prep Batch:	PB06827	Date Prepared:	12/26/00

Param	Flag	Result	Units	Dilution	RDL
pH	[4]	7.2	s.u.	1	1

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC07684

Param	Flag	Results	Units	Reporting Limit
CL		<0.5	mg/L	0.50
Fluoride		<0.2	mg/L	0.20
Nitrate-N		<0.2	mg/L	0.20
Sulfate		<0.5	mg/L	0.50

Sample: Method Blank QCBatch: QC07689

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

Sample: Method Blank QCBatch: QC07695

Param	Flag	Results	Units	Reporting Limit
Total Aluminum		<0.10	mg/L	0.10
Total Arsenic		<0.01	mg/L	0.01
Total Barium		<0.01	mg/L	0.01
Total Boron		<0.5	mg/L	0.50
Total Cadmium		<0.002	mg/L	0.002
Total Chromium		<0.01	mg/L	0.01
Total Cobalt		<0.01	mg/L	0.01
Total Copper		<0.01	mg/L	0.01
Total Iron		<0.50	mg/L	0.10
Total Lead		<0.01	mg/L	0.01

Continued ...

[4]Sample run out of holding time

... Continued

Param	Flag	Results	Units	Reporting Limit
Total Manganese		<0.01	mg/L	0.01
Total Molybdenum		<0.10	mg/L	0.10
Total Nickel		<0.01	mg/L	0.01
Total Selenium		<0.01	mg/L	0.01
Total Silica		<0.5	mg/L	0.50
Total Silver		<0.01	mg/L	0.01
Total Zinc		<0.01	mg/L	0.01

Sample: Method Blank QCBatch: QC07728

Param	Flag	Results	Units	Reporting Limit
Hydroxide Alkalinity		<1.0	mg/L as CaCo3	1
Carbonate Alkalinity		<1.0	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.0	mg/L as CaCo3	1
Total Alkalinity		<4.0	mg/L as CaCo3	1

Sample: Method Blank QCBatch: QC07750

Param	Flag	Results	Units	Reporting Limit
Total Dissolved Solids		<10	mg/L	10

Sample: Method Blank QCBatch: QC07862

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	Spike Amount	Percent Recovery	Recovery Limit
TFT		0.098	mg/L	0.10	98	72 - 128
4-BFB		0.087	mg/L	0.10	87	72 - 128

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC07684

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		11.69	mg/L	1	12.50	<0.5	93		80 - 120	25

Sample: LCSD QC Batch: QC07684

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		11.70	mg/L	1	12.50	<0.5	93	0	80 - 120	25

Sample: LCS QC Batch: QC07689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00106	mg/L	1	0.001	<0.0002	106		80 - 120	20

Sample: LCSD QC Batch: QC07689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00107	mg/L	1	0.001	<0.0002	107	1	80 - 120	20

Sample: LCS QC Batch: QC07695

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.98	mg/L	1	1	<0.01	96		75 - 125	20
Total Cadmium		0.202	mg/L	1	0.20	<0.002	99		75 - 125	20
Total Chromium		0.426	mg/L	1	0.40	<0.01	105		75 - 125	20
Total Copper		0.405	mg/L	1	0.40	<0.01	101		75 - 125	20
Total Lead		1.02	mg/L	1	1	<0.01	102		75 - 125	20
Total Molybdenum		1.04	mg/L	1	1	<0.10	102		75 - 125	20
Total Nickel		1	mg/L	1	1	*<0.01*	*100*		75 - 125	20
Total Selenium		0.902	mg/L	1	1	<0.01	87		75 - 125	20
Total Silver		0.2	mg/L	1	0.20	<0.01	100		75 - 125	20
Total Zinc		0.215	mg/L	1	0.20	<0.01	107		75 - 125	20

Sample: LCSD QC Batch: QC07695

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		0.986	mg/L	1	1	<0.01	97	1	75 - 125	20
Total Cadmium		0.201	mg/L	1	0.20	<0.002	99	0	75 - 125	20
Total Chromium		0.424	mg/L	1	0.40	<0.01	104	0	75 - 125	20
Total Copper		0.405	mg/L	1	0.40	<0.01	101	0	75 - 125	20
Total Lead		1.02	mg/L	1	1	<0.01	102	0	75 - 125	20
Total Molybdenum		1.03	mg/L	1	1	<0.10	101	1	75 - 125	20
Total Nickel		1	mg/L	1	1	<0.01	100	0	75 - 125	20
Total Selenium		0.906	mg/L	1	1	<0.01	88	0	75 - 125	20
Total Silver		0.2	mg/L	1	0.20	<0.01	100	0	75 - 125	20
Total Zinc		0.214	mg/L	1	0.20	<0.01	107	0	75 - 125	20

Sample: LCS

QC Batch: QC07862

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.096	mg/L	1	0.10	<0.001	96		80 - 120	20
Benzene		0.098	mg/L	1	0.10	<0.001	98		80 - 120	20
Toluene		0.094	mg/L	1	0.10	<0.001	94		80 - 120	20
Ethylbenzene		0.094	mg/L	1	0.10	<0.001	94		80 - 120	20
M,P,O-Xylene		0.257	mg/L	1	0.30	<0.001	85		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.096	mg/L	1	0.10	96	72 - 128
4-BFB		0.087	mg/L	1	0.10	87	72 - 128

Sample: LCSD

QC Batch: QC07862

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		0.103	mg/L	1	0.10	<0.001	103	7	80 - 120	20
Benzene		0.1	mg/L	1	0.10	<0.001	100	2	80 - 120	20
Toluene		0.094	mg/L	1	0.10	<0.001	94	0	80 - 120	20
Ethylbenzene		0.096	mg/L	1	0.10	<0.001	96	2	80 - 120	20
M,P,O-Xylene		0.251	mg/L	1	0.30	<0.001	83	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		0.101	mg/L	1	0.10	101	72 - 128
4-BFB		0.093	mg/L	1	0.10	93	72 - 128

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC07684

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		7523.50	mg/L	1	6250	1800	91		82 - 100	25
Fluoride		1197.52	mg/L	1	1250		91		81 - 109	20
Nitrate-N		1195.18	mg/L	1	1250		95		74 - 111	20
Sulfate		5970.44	mg/L	1	6250		93		81 - 106	20

Sample: MSD QC Batch: QC07684

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
CL		7469.53	mg/L	1	6250	1800	90	1	82 - 100	25
Fluoride		1189.23	mg/L	1	1250		91	1	81 - 109	20
Nitrate-N		1188.00	mg/L	1	1250		95	1	74 - 111	20
Sulfate		5968.35	mg/L	1	6250		93	0	81 - 106	20

Sample: MS QC Batch: QC07689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00102	mg/L	1	0.001	<0.0002	102		80 - 120	20

Sample: MSD QC Batch: QC07689

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		0.00103	mg/L	1	0.001	<0.0002	103	1	80 - 120	20

Sample: MS QC Batch: QC07695

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Aluminum		2.38	mg/L	5	2	<0.5	119		75 - 125	20
Total Arsenic		1.13	mg/L	5	1	<0.05	113		75 - 125	20
Total Barium		2.02	mg/L	5	2	0.25	88		75 - 125	20
Total Boron		12.2	mg/L	5	1	11.3	89		75 - 125	20
Total Cadmium		0.177	mg/L	5	0.20	<0.01	88		75 - 125	20
Total Chromium		0.392	mg/L	5	0.40	<0.05	90		75 - 125	20
Total Cobalt		0.902	mg/L	5	1	0.05	84		75 - 125	20
Total Copper		0.36	mg/L	5	0.40	<0.05	90		75 - 125	20
Total Iron		1.83	mg/L	5	2	<0.5	91		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Lead		0.85	mg/L	5	1	<0.05	85		75 - 125	20
Total Manganese		1.20	mg/L	5	0.20	1.0	100		75 - 125	20
Total Molybdenum		0.94	mg/L	5	1	<0.50	85		75 - 125	20
Total Nickel		1	mg/L	5	1	0.07	93		75 - 125	20
Total Selenium		0.967	mg/L	5	1	<0.05	96		75 - 125	20
Total Silica		13	mg/L	5	1.50	11.5	100		75 - 125	20
Total Silver		0.2	mg/L	5	0.20	<0.05	100		75 - 125	20
Total Zinc		0.15	mg/L	5	0.20	<0.05	75		75 - 125	20

Sample: MSD QC Batch: QC07695

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Aluminum		2.53	mg/L	5	2	<0.5	126	5	75 - 125	20
Total Arsenic		1.05	mg/L	5	1	<0.05	105	7	75 - 125	20
Total Barium		2.18	mg/L	5	2	0.25	96	9	75 - 125	20
Total Boron		12.3	mg/L	5	1	11.3	100	11	75 - 125	20
Total Cadmium		0.188	mg/L	5	0.20	<0.01	94	6	75 - 125	20
Total Chromium		0.414	mg/L	5	0.40	<0.05	95	6	75 - 125	20
Total Cobalt		0.982	mg/L	5	1	0.05	92	9	75 - 125	20
Total Copper		0.389	mg/L	5	0.40	<0.05	97	8	75 - 125	20
Total Iron		1.97	mg/L	5	2	<0.5	98	7	75 - 125	20
Total Lead		0.892	mg/L	5	1	<0.05	89	5	75 - 125	20
Total Manganese		1.19	mg/L	5	0.20	1.0	85	4	75 - 125	20
Total Molybdenum		1.01	mg/L	5	1	<0.50	92	8	75 - 125	20
Total Nickel		1.08	mg/L	5	1	0.07	101	8	75 - 125	20
Total Selenium		1.02	mg/L	5	1	<0.05	102	5	75 - 125	20
Total Silica		13.3	mg/L	5	1.50	11.5	120	18	75 - 125	20
Total Silver		0.218	mg/L	5	0.20	<0.05	109	9	75 - 125	20
Total Zinc		0.15	mg/L	5	0.20	<0.05	75	0	75 - 125	20

Quality Control Report
Duplicate Samples

Sample: Duplicate QC Batch: QC07728

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity		<1.0	<1.0	mg/L as CaCo3	1	0	11
Carbonate Alkalinity		<1.0	8.0	mg/L as CaCo3	1	0	11
Bicarbonate Alkalinity		136	128	mg/L as CaCo3	1	6	11
Total Alkalinity		136	136	mg/L as CaCo3	1	6	11

Sample: Duplicate QC Batch: QC07750

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		35350	36000	mg/L	1	2	11

Sample: Duplicate QC Batch: QC07793

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
pH		7.3	7.2	s.u.	1	1	1.2

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC07684

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.74	93	80 - 120	12/26/00

Sample: ICV (1) QC Batch: QC07684

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
CL		mg/L	12.50	11.75	94	80 - 120	12/26/00

Sample: CCV (1) QC Batch: QC07689

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	12/27/00

Sample: ICV (1) QC Batch: QC07689

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	12/27/00

Sample: CCV (1) QC Batch: QC07695

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.65	105	75 - 125	12/28/00
Total Cadmium		mg/L	0.50	0.527	104	75 - 125	12/28/00
Total Chromium		mg/L	1	1.05	104	75 - 125	12/28/00
Total Copper		mg/L	1	1.03	103	75 - 125	12/28/00
Total Lead		mg/L	2.50	2.64	105	75 - 125	12/28/00
Total Molybdenum		mg/L	2.50	2.62	104	75 - 125	12/28/00
Total Nickel		mg/L	2.50	2.63	105	75 - 125	12/28/00
Total Selenium		mg/L	2.50	2.64	104	75 - 125	12/28/00
Total Silver		mg/L	0.50	0.523	104	75 - 125	12/28/00
Total Zinc		mg/L	0.50	0.523	104	75 - 125	12/28/00

Sample: ICV (1)

QC Batch: QC07695

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.66	105	75 - 125	12/28/00
Total Cadmium		mg/L	0.50	0.537	106	75 - 125	12/28/00
Total Chromium		mg/L	1	1.07	106	75 - 125	12/28/00
Total Copper		mg/L	1	1.05	105	75 - 125	12/28/00
Total Lead		mg/L	2.50	2.68	107	75 - 125	12/28/00
Total Molybdenum		mg/L	2.50	2.66	105	75 - 125	12/28/00
Total Nickel		mg/L	2.50	2.67	106	75 - 125	12/28/00
Total Selenium		mg/L	2.50	2.66	105	75 - 125	12/28/00
Total Silver		mg/L	0.50	0.534	106	75 - 125	12/28/00
Total Zinc		mg/L	0.50	0.538	107	75 - 125	12/28/00

Sample: CCV (1)

QC Batch: QC07728

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	80 - 120	12/28/00
Carbonate Alkalinity		mg/L as CaCo3	0	216	0	80 - 120	12/28/00
Bicarbonate Alkalinity		mg/L as CaCo3	0	29	0	80 - 120	12/28/00
Total Alkalinity		mg/L as CaCo3	250	245	98	80 - 120	12/28/00

Sample: ICV (1)

QC Batch: QC07728

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0	<1.0	0	80 - 120	12/28/00
Carbonate Alkalinity		mg/L as CaCo3	0	208	0	80 - 120	12/28/00
Bicarbonate Alkalinity		mg/L as CaCo3	0	35	0	80 - 120	12/28/00
Total Alkalinity		mg/L as CaCo3	250	243	97	80 - 120	12/28/00

Sample: CCV (1) QC Batch: QC07750

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	944	94	80 - 120	12/28/00

Sample: ICV (1) QC Batch: QC07750

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	898	89	80 - 120	12/28/00

Sample: CCV (1) QC Batch: QC07793

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.1	101	80 - 120	12/26/00

Sample: ICV (1) QC Batch: QC07793

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
pH		s.u.	7	7.1	101	80 - 120	12/26/00

Sample: CCV (1) QC Batch: QC07862

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.119	119	80 - 120	1/2/01
Benzene		mg/L	0.10	0.096	96	80 - 120	1/2/01
Toluene		mg/L	0.10	0.092	92	80 - 120	1/2/01
Ethylbenzene		mg/L	0.10	0.093	93	80 - 120	1/2/01
M,P,O-Xylene		mg/L	0.30	0.261	87	80 - 120	1/2/01

Sample: CCV (2) QC Batch: QC07862

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.116	116	80 - 120	1/2/01
Benzene		mg/L	0.10	0.095	95	80 - 120	1/2/01

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.10	0.088	88	80 - 120	1/2/01
Ethylbenzene		mg/L	0.10	0.092	92	80 - 120	1/2/01
M,P,O-Xylene		mg/L	0.30	0.243	81	80 - 120	1/2/01

Sample: ICV (1) QC Batch: QC07862

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	80 - 120	1/2/01
Benzene		mg/L	0.10	0.098	98	80 - 120	1/2/01
Toluene		mg/L	0.10	0.095	95	80 - 120	1/2/01
Ethylbenzene		mg/L	0.10	0.095	95	80 - 120	1/2/01
M,P,O-Xylene		mg/L	0.30	0.261	87	80 - 120	1/2/01

Cation-Anion Balance Sheet

DATE: 1/10/01 MS

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate ppm	Fluoride ppm	TDS ppm	EC µMHOs/cm
161470	310	680	18500	1550	961	2100	39000	0	0	0	0
161471	344	367	9100	614	464	1300	17000	10	0	0	0

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate in meq/L	Fluoride in meq/L	**Cations in meq/L**	**Anions in meq/L**	**Percentage Error**
161470	15.47	55.96	804.75	39.65	19.22	43.72	1100.19	0	0	915.83	1163.13	23.79142774
161471	17.17	30.20	395.85	15.71	9.28	27.07	479.57	0.7139	0	458.92	516.63	11.83078853

	EC/Cation	EC/Anion
161470	91582.52	116313.2
161471	45892.215	51662.99

range 0 to 0

range 0 to 0

TDS/EC	TDS/Cat	TDS/Anion	
#DIV/0!	0.00	0.00	needs to be 0.55-0.77
#DIV/0!	0.00	0.00	needs to be 0.55-0.77

* The percentage error was greater than 10% due to dilutions necessitated by high salt concentrations.

161470-111

HOU022001

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: 1 OF: 1

CLIENT NAME: Texaco

SITE MANAGER: Ike Tavarez

PROJECT NO.: 486

PROJECT NAME: Texaco South Gas Plant, Eunice, New Mexico

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	WQCC Metals	Major Tons
161470	12/22/00	1230	W			MW-22	4	X	X	X	X		X																	X	X
471	12/22/00	1400	W			MW-23	4	X	X	X	X		X																	X	X

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Lynn Ward — Date: 12/22/00 Time: 5:00pm

RECEIVED BY: (Signature) Ellen Shelton — Date: 12/22/00 Time: 5:00PM

RELINQUISHED BY: (Signature) Ellen Shelton — Date: 12/22/00 Time: 6:30PM

RECEIVED BY: (Signature) — Date: 12/23/00 Time: 9:30

RELINQUISHED BY: (Signature) — Date: Time:

RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Trace Analysis

ADDRESS:

CITY: Lubbock STATE: TX ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature)

DATE: TIME:

SAMPLED BY: (Print & Sign) Ike Tavarez/Lynn Ward Date: 12/22/00 Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED AIRBILL #: Hand Delivered OTHER:

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: (W-Water) S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: Results by Jan. 2, 2001

1/16/01

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

MW 8 samples - HS

APPENDIX C

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: September 19, 2000

Order ID Number: A00091509

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
153600	East Sump (North Wall)	Soil	9/12/00	:	9/15/00
153601	East Sump (South Wall)	Soil	9/12/00	:	9/15/00
153602	East Sump (East Wall)	Soil	9/12/00	:	9/15/00
153603	East Sump (West Wall)	Soil	9/12/00	:	9/15/00
153604	East Sump (Bottom 6.5')	Soil	9/12/00	:	9/15/00

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.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 153600 - East Sump (North Wall)

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04977	Date Analyzed:	9/18/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04317	Date Prepared:	9/18/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		4.96	mg/Kg	500	0.001
Toluene		62.6	mg/Kg	500	0.001
Ethylbenzene		45.3	mg/Kg	500	0.001
M,P,O-Xylene		130	mg/Kg	500	0.001
Total BTEX		243	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		59.5	mg/Kg	1	0.10	119	72 - 128
4-BFB		56.4	mg/Kg	1	0.10	112	72 - 128

Sample: 153601 - East Sump (South Wall)

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04977	Date Analyzed:	9/18/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04317	Date Prepared:	9/18/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.581	mg/Kg	200	0.001
Toluene		1.18	mg/Kg	200	0.001
Ethylbenzene		2.33	mg/Kg	200	0.001
M,P,O-Xylene		7.3	mg/Kg	200	0.001
Total BTEX		11.4	mg/Kg	200	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		20.6	mg/Kg	1	0.10	103	72 - 128
4-BFB		19.5	mg/Kg	1	0.10	97	72 - 128

Sample: 153602 - East Sump (East Wall)

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04977	Date Analyzed:	9/18/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04317	Date Prepared:	9/18/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		3.63	mg/Kg	500	0.001
Toluene		62.8	mg/Kg	500	0.001
Ethylbenzene		49.8	mg/Kg	500	0.001
M,P,O-Xylene		141	mg/Kg	500	0.001
Total BTEX		257	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		58.8	mg/Kg	1	0.10	117	72 - 128
4-BFB	[1]	65.6	mg/Kg	1	0.10	65600	72 - 128

Sample: 153603 - East Sump (West Wall)

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04977	Date Analyzed:	9/18/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04317	Date Prepared:	9/18/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		19.3	mg/Kg	500	0.001
Toluene		24.4	mg/Kg	500	0.001
Ethylbenzene		192	mg/Kg	500	0.001
M,P,O-Xylene		<0.5	mg/Kg	500	0.001
Total BTEX		236	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[2]	123	mg/Kg	1	0.10	123000	72 - 128
4-BFB		42	mg/Kg	1	0.10	84	72 - 128

Sample: 153604 - East Sump (Bottom 6.5')

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04977	Date Analyzed:	9/18/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04317	Date Prepared:	9/18/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		11.8	mg/Kg	500	0.001
Toluene		147	mg/Kg	500	0.001
Ethylbenzene		90.4	mg/Kg	500	0.001
M,P,O-Xylene		257	mg/Kg	500	0.001
Total BTEX		507	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		60.2	mg/Kg	1	0.10	120	72 - 128
4-BFB		58.4	mg/Kg	1	0.10	116	72 - 128

Quality Control Report
Method Blank

Sample: Method Blank

QCBatch: QC04977

[1]Surrogate out of limits due to matrix.
[2]Surrogate out of limits due to matrix.

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.05	mg/Kg	0.001
Toluene		<0.05	mg/Kg	0.001
Ethylbenzene		<0.05	mg/Kg	0.001
M,P,O-Xylene		<0.05	mg/Kg	0.001
Total BTEX		<0.05	mg/Kg	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
TFT		5.03	mg/Kg	0.10	100	72 - 128
4-BFB		5.02	mg/Kg	0.10	100	72 - 128

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04977

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.79	mg/Kg	50	0.10	<0.05	95		80 - 120	20
Benzene		4.73	mg/Kg	50	0.10	<0.05	94		80 - 120	20
Toluene		4.57	mg/Kg	50	0.10	<0.05	91		80 - 120	20
Ethylbenzene		4.55	mg/Kg	50	0.10	<0.05	91		80 - 120	20
M,P,O-Xylene		13.5	mg/Kg	50	0.30	<0.05	90		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.8	mg/Kg	50	0.10	96	72 - 128
4-BFB		4.71	mg/Kg	50	0.10	94	72 - 128

Sample: LCSD QC Batch: QC04977

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		5.42	mg/Kg	50	0.10	<0.05	108	12	80 - 120	20
Benzene		5.3	mg/Kg	50	0.10	<0.05	106	11	80 - 120	20
Toluene		5.19	mg/Kg	50	0.10	<0.05	103	13	80 - 120	20
Ethylbenzene		5.16	mg/Kg	50	0.10	<0.05	103	12	80 - 120	20
M,P,O-Xylene		15.3	mg/Kg	50	0.30	<0.05	102	12	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.08	mg/Kg	50	0.10	101	72 - 128
4-BFB		4.99	mg/Kg	50	0.10	99	72 - 128

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC04977

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		5.07	mg/Kg	1	0.10	<0.05	102		80 - 120	20
Toluene		4.92	mg/Kg	1	0.10	<0.05	98		80 - 120	20
Ethylbenzene		4.92	mg/Kg	1	0.10	<0.05	98		80 - 120	20
M,P,O-Xylene		14.6	mg/Kg	1	0.30	<0.05	97		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.97	mg/Kg	1	0.10	4970	72 - 128
4-BFB		4.89	mg/Kg	1	0.10	4890	72 - 128

Sample: MSD QC Batch: QC04977

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		5.17	mg/Kg	1	0.10	<0.05	104	2	80 - 120	20
Toluene		5.04	mg/Kg	1	0.10	<0.05	101	2	80 - 120	20
Ethylbenzene		5.06	mg/Kg	1	0.10	<0.05	101	3	80 - 120	20
M,P,O-Xylene		15	mg/Kg	1	0.30	<0.05	100	3	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.08	mg/Kg	1	0.10	5080	72 - 128
4-BFB		4.95	mg/Kg	1	0.10	4950	72 - 128

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04977

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.103	103	80 - 120	9/18/00
Toluene		mg/Kg	0.10	0.1	100	80 - 120	9/18/00
Ethylbenzene		mg/Kg	0.10	0.1	100	80 - 120	9/18/00
M,P,O-Xylene		mg/Kg	0.30	0.298	99	80 - 120	9/18/00

Sample: CCV (2) QC Batch: QC04977

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.102	102	80 - 120	9/18/00
Toluene		mg/Kg	0.10	0.099	99	80 - 120	9/18/00
Ethylbenzene		mg/Kg	0.10	0.101	101	80 - 120	9/18/00
M,P,O-Xylene		mg/Kg	0.30	0.298	99	80 - 120	9/18/00

Sample: ICV (1) QC Batch: QC04977

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.105	105	80 - 120	9/18/00
Toluene		mg/Kg	0.10	0.106	106	80 - 120	9/18/00
Ethylbenzene		mg/Kg	0.10	0.105	105	80 - 120	9/18/00
M,P,O-Xylene		mg/Kg	0.30	0.338	112	80 - 120	9/18/00

A000 91509

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: 1 OF: 1

CLIENT NAME: Texaco E&P Inc. SITE MANAGER: Ike Tavarez

PROJECT NO.: 184 PROJECT NAME: Texaco South Eunice Plant Lea Co. NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST (Circle or Specify Method No.): BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
153600	9/12/00		S			East Sump. (North wall)	1				1		X																
601	9/12/00		S			East Sump (South wall)	1				1		X																
602	9/12/00		S			East Sump. (East wall)	1				1		X																
603	9/12/00		S			East Sump. (West wall)	1				1		X																
604	9/12/00		S			East Sump. (Bottom. 6.5')	1				1		X																

RELINQUISHED BY: (Signature) Tom C. Ward Date: 9/14/00 Time: 10:35 AM
RECEIVED BY: (Signature) Helen Shelton Date: 9/14/00 Time: 10:35 AM
SAMPLED BY: (Print & Sign) Ike Tavarez Date: 9/12/00 Time:

RELINQUISHED BY: (Signature) Helen Shelton Date: 9/14/00 Time: 10:15 PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED Greyhound AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:
HIGHLANDER CONTACT PERSON: Ike Tavarez Results by:

RECEIVING LABORATORY: Trace Lab.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Vicki Dewey
DATE: 9-15-00 TIME: 10:00 am
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water (S-Soil) A-Air SD-Solid SL-Sludge O-Other

REMARKS: MON. - SEPT. 18 please

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

9/19/00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: October 4, 2000

Order ID Number: A00092120

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
153953	BH-1 (5-6') Concrete Sump	Soil	9/14/00	:	9/21/00
153954	BH-1 (20-21') Concrete Sump	Soil	9/14/00	:	9/21/00
153956	BH-1 (30-31') Concrete Sump	Soil	9/18/00	:	9/21/00
153957	BH-1 (40-41') Concrete Sump	Soil	9/18/00	:	9/21/00
153959	BH-1 (50-51') Concrete Sump	Soil	9/18/00	:	9/21/00

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.

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 153953 - BH-1 (5-6') Concrete Sump

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05140	Date Analyzed:	9/25/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04483	Date Prepared:	9/25/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		136	mg/Kg	5000	0.001
Toluene		782	mg/Kg	5000	0.001
Ethylbenzene		332	mg/Kg	5000	0.001
M,P,O-Xylene		730	mg/Kg	5000	0.001
Total BTEX		1980	mg/Kg	5000	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		546	mg/Kg	1	0.10	109	72 - 128
4-BFB		562	mg/Kg	1	0.10	112	72 - 128

Sample: 153953 - BH-1 (5-6') Concrete Sump

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC05289	Date Analyzed:	9/27/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04615	Date Prepared:	9/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		24.90	mg/Kg	1	0.19

Sample: 153953 - BH-1 (5-6') Concrete Sump

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC05167	Date Analyzed:	9/27/00
Analyst:	LG	Preparation Method:	E 3050B	Prep Batch:	PB04443	Date Prepared:	9/25/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		180	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		6.7	mg/Kg	1	5
Total Lead		7.4	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Sample: 153954 - BH-1 (20-21') Concrete Sump

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05140	Date Analyzed:	9/25/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04483	Date Prepared:	9/25/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		<2	mg/Kg	2000	0.001
Toluene		49.1	mg/Kg	2000	0.001

Continued ...

... Continued Sample: 153954 Analysis: BTEX

Param	Flag	Result	Units	Dilution	RDL
Ethylbenzene		56.3	mg/Kg	2000	0.001
M,P,O-Xylene		132	mg/Kg	2000	0.001
Total BTEX		237	mg/Kg	2000	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		217	mg/Kg	1	0.10	108	72 - 128
4-BFB		225	mg/Kg	1	0.10	112	72 - 128

Sample: 153954 - BH-1 (20-21') Concrete Sump

Analysis: Hg, Total | Analytical Method: S 7471A | QC Batch: QC05289 | Date Analyzed: 9/27/00
Analyst: MS | Preparation Method: N/A | Prep Batch: PB04615 | Date Prepared: 9/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 153954 - BH-1 (20-21') Concrete Sump

Analysis: Total Metals | Analytical Method: S 6010B | QC Batch: QC05167 | Date Analyzed: 9/27/00
Analyst: LG | Preparation Method: E 3050B | Prep Batch: PB04443 | Date Prepared: 9/25/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		239	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		<5.0	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Sample: 153956 - BH-1 (30-31') Concrete Sump

Analysis: BTEX | Analytical Method: S 8021B | QC Batch: QC05140 | Date Analyzed: 9/25/00
Analyst: RC | Preparation Method: 5035 | Prep Batch: PB04483 | Date Prepared: 9/25/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.1	mg/Kg	100	0.001
Toluene		8.68	mg/Kg	100	0.001
Ethylbenzene		12.8	mg/Kg	100	0.001
M,P,O-Xylene		31.8	mg/Kg	100	0.001
Total BTEX		53.3	mg/Kg	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		11.6	mg/Kg	1	0.10	116	72 - 128
4-BFB		12.7	mg/Kg	1	0.10	127	72 - 128

Sample: 153956 - BH-1 (30-31') Concrete Sump

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC05289	Date Analyzed:	9/27/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04615	Date Prepared:	9/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 153956 - BH-1 (30-31') Concrete Sump

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC05287	Date Analyzed:	9/27/00
Analyst:	RR	Preparation Method:	E 3050B	Prep Batch:	PB04614	Date Prepared:	9/26/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		58	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		<5.0	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Sample: 153957 - BH-1 (40-41') Concrete Sump

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05292	Date Analyzed:	10/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04618	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		7.98	mg/Kg	500	0.001
Toluene		91.2	mg/Kg	500	0.001
Ethylbenzene		75.2	mg/Kg	500	0.001
M,P,O-Xylene		156	mg/Kg	500	0.001
Total BTEX		330	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		44.6	mg/Kg	1	0.10	89	72 - 128
4-BFB		58.9	mg/Kg	1	0.10	117	72 - 128

Sample: 153959 - BH-1 (50-51') Concrete Sump

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05140	Date Analyzed:	9/25/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04483	Date Prepared:	9/25/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		3.25	mg/Kg	100	0.001
Toluene		1.72	mg/Kg	100	0.001
Ethylbenzene		29.2	mg/Kg	100	0.001
M,P,O-Xylene		<0.1	mg/Kg	100	0.001
Total BTEX		34.2	mg/Kg	100	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[1]	13	mg/Kg	1	0.10	13000	72 - 128
4-BFB	[2]	2.08	mg/Kg	1	0.10	2080	72 - 128

Sample: 153959 - BH-1 (50-51') Concrete Sump

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC05289	Date Analyzed:	9/27/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04615	Date Prepared:	9/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 153959 - BH-1 (50-51') Concrete Sump

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC05287	Date Analyzed:	9/27/00
Analyst:	RR	Preparation Method:	E 3050B	Prep Batch:	PB04614	Date Prepared:	9/26/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		2100	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		<5.0	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC05140

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.05	mg/Kg	0.001
Toluene		<0.05	mg/Kg	0.001
Ethylbenzene		<0.05	mg/Kg	0.001
M,P,O-Xylene		<0.05	mg/Kg	0.001
Total BTEX		<0.05	mg/Kg	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
TFT		5.56	mg/Kg	0.10	111	72 - 128

Continued ...

[1]Surrogate results out of limits due to matrix.
[2]Surrogate results out of limits due to matrix.

... Continued

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
4-BFB		5.94	mg/Kg	0.10	118	72 - 128

Sample: Method Blank QCBatch: QC05167

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<5.0	mg/Kg	5
Total Barium		<5.0	mg/Kg	5
Total Cadmium		<2.0	mg/Kg	2
Total Chromium		<5.0	mg/Kg	5
Total Lead		<5.0	mg/Kg	5
Total Selenium		<5.0	mg/Kg	5
Total Silver		<2.0	mg/Kg	2

Sample: Method Blank QCBatch: QC05287

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<5.0	mg/Kg	5
Total Barium		<5.0	mg/Kg	5
Total Cadmium		<2.0	mg/Kg	2
Total Chromium		<5.0	mg/Kg	5
Total Lead		<5.0	mg/Kg	5
Total Selenium		<5.0	mg/Kg	5
Total Silver		<2.0	mg/Kg	2

Sample: Method Blank QCBatch: QC05289

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.19	mg/Kg	0.19

Sample: Method Blank QCBatch: QC05292

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.05	mg/Kg	0.001
Toluene		<0.05	mg/Kg	0.001
Ethylbenzene		<0.05	mg/Kg	0.001
M,P,O-Xylene		<0.05	mg/Kg	0.001
Total BTEX		<0.05	mg/Kg	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
TFT		5.27	mg/Kg	0.10	105	72 - 128
4-BFB		4.67	mg/Kg	0.10	93	72 - 128

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC05140

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE	[3]	5.64	mg/Kg	50	0.10	<0.05	113		80 - 120	20
Benzene		4.87	mg/Kg	50	0.10	<0.05	97		80 - 120	20
Toluene		4.74	mg/Kg	50	0.10	<0.05	94		80 - 120	20
Ethylbenzene		4.98	mg/Kg	50	0.10	<0.05	99		80 - 120	20
M,P,O-Xylene		14.4	mg/Kg	50	0.30	<0.05	96		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.34	mg/Kg	50	0.10	106	72 - 128
4-BFB		5.69	mg/Kg	50	0.10	113	72 - 128

Sample: LCSD QC Batch: QC05140

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		5.81	mg/Kg	50	0.10	<0.05	116	3	80 - 120	20
Benzene		5.13	mg/Kg	50	0.10	<0.05	102	5	80 - 120	20
Toluene		5.09	mg/Kg	50	0.10	<0.05	101	7	80 - 120	20
Ethylbenzene		5.12	mg/Kg	50	0.10	<0.05	102	3	80 - 120	20
M,P,O-Xylene		15.5	mg/Kg	50	0.30	<0.05	103	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.17	mg/Kg	50	0.10	103	72 - 128
4-BFB		5.49	mg/Kg	50	0.10	109	72 - 128

Sample: LCS QC Batch: QC05167

[3]LCS/LCSD were used to calculate RPD and EA due to the fact that the MS/MSD were not spiked.

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		90	mg/Kg	1	100	<5.0	90		75 - 125	20
Total Barium		198	mg/Kg	1	200	<5.0	99		75 - 125	20
Total Cadmium		19	mg/Kg	1	20	<2.0	95		75 - 125	20
Total Chromium		39	mg/Kg	1	40	<5.0	97		75 - 125	20
Total Lead		95	mg/Kg	1	100	<5.0	95		75 - 125	20
Total Selenium		84	mg/Kg	1	100	<5.0	84		75 - 125	20
Total Silver		9.3	mg/Kg	1	10	<2.0	93		75 - 125	20

Sample: LCSD QC Batch: QC05167

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		91	mg/Kg	1	100	<5.0	91	1	75 - 125	20
Total Barium		196	mg/Kg	1	200	<5.0	98	1	75 - 125	20
Total Cadmium		18	mg/Kg	1	20	<2.0	90	5	75 - 125	20
Total Chromium		39	mg/Kg	1	40	<5.0	97	0	75 - 125	20
Total Lead		103	mg/Kg	1	100	<5.0	103	8	75 - 125	20
Total Selenium		84	mg/Kg	1	100	<5.0	84	0	75 - 125	20
Total Silver		9.3	mg/Kg	1	20	<2.0	93	0	75 - 125	20

Sample: LCS QC Batch: QC05287

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		90	mg/Kg	1	100	<5.0	90		75 - 125	20
Total Barium		198	mg/Kg	1	200	<5.0	99		75 - 125	20
Total Cadmium		19	mg/Kg	1	20	<2.0	95		75 - 125	20
Total Chromium		39	mg/Kg	1	40	<5.0	97		75 - 125	20
Total Lead		95	mg/Kg	1	100	<5.0	95		75 - 125	20
Total Selenium		83	mg/Kg	1	100	<5.0	83		75 - 125	20
Total Silver		9.3	mg/Kg	1	20	<2.0	46		75 - 125	20

Sample: LCSD QC Batch: QC05287

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		91	mg/Kg	1	100	<5.0	91	1	75 - 125	20
Total Barium		196	mg/Kg	1	200	<5.0	98	1	75 - 125	20
Total Cadmium		18	mg/Kg	1	20	<2.0	90	5	75 - 125	20
Total Chromium		39	mg/Kg	1	40	<5.0	97	0	75 - 125	20
Total Lead		103	mg/Kg	1	100	<5.0	103	8	75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Selenium		84	mg/Kg	1	100	<5.0	84	1	75 - 125	20
Total Silver		9.3	mg/Kg	1	20	<2.0	46	0	75 - 125	20

Sample: LCS QC Batch: QC05289

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.54	mg/Kg	1	2.50	<0.19	101		80 - 120	20

Sample: LCSD QC Batch: QC05289

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.33	mg/Kg	1	2.50	<0.19	93	9	80 - 120	20

Sample: LCS QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.75	mg/Kg	50	0.10	<0.05	95		80 - 120	20
Benzene		4.48	mg/Kg	50	0.10	<0.05	89		80 - 120	20
Toluene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
Ethylbenzene		4.23	mg/Kg	50	0.10	<0.05	84		80 - 120	20
M,P,O-Xylene		14	mg/Kg	50	0.30	<0.05	93		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.83	mg/Kg	50	0.10	96	72 - 128
4-BFB		4.47	mg/Kg	50	0.10	89	72 - 128

Sample: LCSD QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.75	mg/Kg	50	0.10	<0.05	95	1	80 - 120	20
Benzene		4.33	mg/Kg	50	0.10	<0.05	87	2	80 - 120	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Toluene		4.66	mg/Kg	50	0.10	<0.05	93	8	80 - 120	20
Ethylbenzene		4.86	mg/Kg	50	0.10	<0.05	97	13	80 - 120	20
M,P,O-Xylene		13	mg/Kg	50	0.30	<0.05	86	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.63	mg/Kg	50	0.10	92	72 - 128
4-BFB		4.24	mg/Kg	50	0.10	84	72 - 128

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC05140

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		<0.05	mg/Kg	50	0.10	<0.05	0		80 - 120	20
Toluene		<0.05	mg/Kg	50	0.10	<0.05	0		80 - 120	20
Ethylbenzene		<0.05	mg/Kg	50	0.10	<0.05	0		80 - 120	20
M,P,O-Xylene		<0.05	mg/Kg	50	0.30	<0.05	0		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.61	mg/Kg	50	0.10	112	72 - 128
4-BFB		6.03	mg/Kg	50	0.10	120	72 - 128

Sample: MSD QC Batch: QC05140

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		<0.05	mg/Kg	50	0.10	<0.05	0	5	80 - 120	20
Toluene		<0.05	mg/Kg	50	0.10	<0.05	0	7	80 - 120	20
Ethylbenzene		<0.05	mg/Kg	50	0.10	<0.05	0	3	80 - 120	20
M,P,O-Xylene		<0.05	mg/Kg	50	0.30	<0.05	0	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		5.66	mg/Kg	50	0.10	113	72 - 128

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-BFB		6	mg/Kg	50	0.10	120	72 - 128

Sample: MS QC Batch: QC05167

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic	[4]	64	mg/Kg	1	100	<5.0	64		75 - 125	20
Total Barium		239	mg/Kg	1	200	132	53		75 - 125	20
Total Cadmium		17	mg/Kg	1	20	<2.0	85		75 - 125	20
Total Chromium		45	mg/Kg	1	40	8.9	90		75 - 125	20
Total Lead		82	mg/Kg	1	100	<5.0	82		75 - 125	20
Total Selenium		78	mg/Kg	1	100	<5.0	78		75 - 125	20
Total Silver		5.6	mg/Kg	1	10	<2.0	56		75 - 125	20

Sample: MSD QC Batch: QC05167

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic	[5]	69	mg/Kg	1	100	<5.0	69	8	75 - 125	20
Total Barium		287	mg/Kg	1	200	132	77	37	75 - 125	20
Total Cadmium		17	mg/Kg	1	20	<2.0	85	0	75 - 125	20
Total Chromium		44	mg/Kg	1	40	8.9	87	3	75 - 125	20
Total Lead		90	mg/Kg	1	100	<5.0	90	9	75 - 125	20
Total Selenium		78	mg/Kg	1	100	<5.0	78	0	75 - 125	20
Total Silver		5.5	mg/Kg	1	10	<2.0	55	2	75 - 125	20

Sample: MS QC Batch: QC05287

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		92	mg/Kg	1	100	<5.0	92		75 - 125	20
Total Barium		237	mg/Kg	1	200	58	89		75 - 125	20
Total Cadmium		18	mg/Kg	1	20	<2.0	90		75 - 125	20
Total Chromium		42	mg/Kg	1	40	<5.0	105		75 - 125	20
Total Lead		91	mg/Kg	1	100	<5.0	91		75 - 125	20
Total Selenium		84	mg/Kg	1	100	<5.0	84		75 - 125	20
Total Silver		8.2	mg/Kg	1	20	<2.0	41		75 - 125	20

[4]Poor spike recovery due to matrix difficulties. Use LCS/LCSD for EA/RPD.
[5]Poor spike recovery due to matrix difficulties. Use LCS/LCSD for EA/RPD.

Sample: MSD QC Batch: QC05287

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		87	mg/Kg	1	100	<5.0	87	6	75 - 125	20
Total Barium		228	mg/Kg	1	200	58	85	5	75 - 125	20
Total Cadmium		18	mg/Kg	1	20	<2.0	90	0	75 - 125	20
Total Chromium		42	mg/Kg	1	40	<5.0	105	0	75 - 125	20
Total Lead		91	mg/Kg	1	100	<5.0	91	0	75 - 125	20
Total Selenium		83	mg/Kg	1	100	<5.0	83	1	75 - 125	20
Total Silver		7.8	mg/Kg	1	20	<2.0	39	5	75 - 125	20

Sample: MS QC Batch: QC05289

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury	[6]	18.20	mg/Kg	1	2.50	24.90	-268		80 - 120	20

Sample: MSD QC Batch: QC05289

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury	[7]	13.00	mg/Kg	1	2.50	24.90	-476	-54	80 - 120	20

Sample: MS QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.42	mg/Kg	50	0.10	<0.05	88		80 - 120	20
Toluene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
Ethylbenzene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
M,P,O-Xylene		13.9	mg/Kg	50	0.30	<0.05	93		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.52	mg/Kg	50	0.10	90	72 - 128
4-BFB		3.95	mg/Kg	50	0.10	79	72 - 128

Sample: MSD QC Batch: QC05292

[6]Used LCS and LCSD RPD and % Extraction Accuracy for matrix spikes due to matrix effects.
[7]Used LCS and LCSD RPD and % Extraction Accuracy for matrix spikes due to matrix effects.

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.58	mg/Kg	50	0.10	<0.05	92	4	80 - 120	20
Toluene		4.46	mg/Kg	50	0.10	<0.05	89	4	80 - 120	20
Ethylbenzene		4.51	mg/Kg	50	0.10	<0.05	90	6	80 - 120	20
M,P,O-Xylene		14.1	mg/Kg	50	0.30	<0.05	96	1	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.89	mg/Kg	50	0.10	98	72 - 128
4-BFB		4.68	mg/Kg	50	0.10	94	72 - 128

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC05140

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.104	104	80 - 120	9/25/00
Toluene		mg/Kg	0.10	0.104	104	80 - 120	9/25/00
Ethylbenzene		mg/Kg	0.10	0.104	104	80 - 120	9/25/00
M,P,O-Xylene		mg/Kg	0.30	0.315	105	80 - 120	9/25/00

Sample: CCV (2) QC Batch: QC05140

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.083	83	80 - 120	9/25/00
Toluene		mg/Kg	0.10	0.082	82	80 - 120	9/25/00
Ethylbenzene		mg/Kg	0.10	0.085	85	80 - 120	9/25/00
M,P,O-Xylene		mg/Kg	0.30	0.254	84	80 - 120	9/25/00

Sample: ICV (1) QC Batch: QC05140

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.105	105	80 - 120	9/25/00
Toluene		mg/Kg	0.10	0.106	106	80 - 120	9/25/00
Ethylbenzene		mg/Kg	0.10	0.11	110	80 - 120	9/25/00

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
M,P,O-Xylene		mg/Kg	0.30	0.334	111	80 - 120	9/25/00

Sample: CCV (1)

QC Batch: QC05167

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.54	101	75 - 125	9/27/00
Total Barium		mg/L	5	5.16	103	75 - 125	9/27/00
Total Cadmium		mg/L	0.50	0.51	102	75 - 125	9/27/00
Total Chromium		mg/L	1	1.02	102	75 - 125	9/27/00
Total Lead		mg/L	2.50	2.61	104	75 - 125	9/27/00
Total Selenium		mg/L	2.50	2.60	104	75 - 125	9/27/00
Total Silver		mg/L	0.50	0.50	100	75 - 125	9/27/00

Sample: ICV (1)

QC Batch: QC05167

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/L	2.50	2.52	100	75 - 125	9/27/00
Total Barium		mg/L	5	5.09	101	75 - 125	9/27/00
Total Cadmium		mg/L	0.50	0.50	100	75 - 125	9/27/00
Total Chromium		mg/L	1	1.01	101	75 - 125	9/27/00
Total Lead		mg/L	2.50	2.52	100	75 - 125	9/27/00
Total Selenium		mg/L	2.50	2.52	100	75 - 125	9/27/00
Total Silver		mg/L	0.50	0.50	100	75 - 125	9/27/00

Sample: CCV (1)

QC Batch: QC05287

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/Kg	2.50	2.51	100	75 - 125	9/27/00
Total Barium		mg/Kg	5	5.07	101	75 - 125	9/27/00
Total Cadmium		mg/Kg	0.50	0.52	104	75 - 125	9/27/00
Total Chromium		mg/Kg	1	1.03	103	75 - 125	9/27/00
Total Lead		mg/Kg	2.50	2.64	105	75 - 125	9/27/00
Total Selenium		mg/Kg	2.50	2.64	105	75 - 125	9/27/00
Total Silver		mg/Kg	0.50	0.50	100	75 - 125	9/27/00

Sample: ICV (1)

QC Batch: QC05287

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/Kg	2.50	2.54	101	75 - 125	9/27/00
Total Barium		mg/Kg	5	5.15	103	75 - 125	9/27/00
Total Cadmium		mg/Kg	0.50	0.51	102	75 - 125	9/27/00
Total Chromium		mg/Kg	1	1.02	102	75 - 125	9/27/00
Total Lead		mg/Kg	2.50	2.61	104	75 - 125	9/27/00
Total Selenium		mg/Kg	2.50	2.60	104	75 - 125	9/27/00
Total Silver		mg/Kg	0.50	0.50	100	75 - 125	9/27/00

Sample: CCV (1) QC Batch: QC05289

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00404	80	80 - 120	9/27/00

Sample: ICV (1) QC Batch: QC05289

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00514	100	80 - 120	9/27/00

Sample: CCV (1) QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.085	85	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.082	82	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.083	83	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.278	92	80 - 120	10/2/00

Sample: CCV (2) QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.1	100	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.092	92	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.092	92	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.308	102	80 - 120	10/2/00

Sample: ICV (1)

QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.088	88	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.085	85	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.084	84	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.282	94	80 - 120	10/2/00

A00092120

Analysis Request and Chain of Custody Record

HIGHLANDER ENVIRONMENTAL CORP.

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PAGE: 1 OF: 1

CLIENT NAME: Texaco E&P Inc. SITE MANAGER: Ike Tavarez

PROJECT NO.: 786 PROJECT NAME: Eunice South Gas Plant Lea County, NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	ANALYSIS REQUEST: BTEX 8020/602	MTBE 8020/602	TPH	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
153953	9/14/00		S		X	BH-1 (5-6'), Concrete Sump	1				X		X				X												
54	9/14/00		S		X	BH-1 (20-21') " "	1				X		X				X												
55	9/18/00		S		X	BH-1 (25-26') " "	1				X																		
56	9/18/00		S		X	BH-1 (30-31') " "	1				X		X				X												
57	9/18/00		S		X	BH-1 (40-41') " "	1				X		X																
58	9/18/00		S		X	BH-1 (45-46') " "	1				X																		
59	9/18/00		S		X	BH-1 (50-51') " "	1				X		X				X												

RELINQUISHED BY: (Signature) Jim Reed Date: 9/20/00 Time: 4:40PM
RECEIVED BY: (Signature) Helen Shelton Date: 9/20/00 Time: 4:40PM
SAMPLED BY: (Print & Sign) Ike Tavarez Date: Time:

RELINQUISHED BY: (Signature) Helen Shelton Date: 9/20/00 Time: 6:45PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED Greyhound AIRBILL # 159-384-855 OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace Lab. RECEIVED BY: (Signature) Brenda Ward
ADDRESS: DATE: 9/21/00 TIME: 9:50
CITY: STATE: ZIP:
CONTACT: PHONE:

HIGHLANDER CONTACT PERSON: Ike Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid (S-Soil) SL-Sludge O-Other

REMARKS: 80

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.

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: November 9, 2000

Order ID Number: A00092911

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
154479	Drain Sump-9.0'	Soil	9/26/00	:	9/29/00
154481	East Sump-10.0'	Soil	9/27/00	:	9/29/00

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.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 154479 - Drain Sump-9.0'

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC06392	Date Analyzed:	10/27/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB05586	Date Prepared:	10/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		8.38	mg/Kg	1	0.19

Sample: 154481 - East Sump-10.0'

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC06392	Date Analyzed:	10/27/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB05586	Date Prepared:	10/27/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 154481 - East Sump-10.0'

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC06393	Date Analyzed:	10/22/00
Analyst:	RR	Preparation Method:	E 3050B	Prep Batch:	PB05587	Date Prepared:	10/19/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		177	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		<5.0	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC06392

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.19	mg/Kg	0.19

Sample: Method Blank QCBatch: QC06393

Param	Flag	Results	Units	Reporting Limit
Total Arsenic		<5.0	mg/Kg	5
Total Barium		<5.0	mg/Kg	5
Total Cadmium		<2.0	mg/Kg	2
Total Chromium		<5.0	mg/Kg	5
Total Lead		<5.0	mg/Kg	5
Total Selenium		<5.0	mg/Kg	5
Total Silver		<2.0	mg/Kg	2

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC06392

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.49	mg/Kg	1	2.50	<0.19	99		80 - 120	20

Sample: LCSD QC Batch: QC06392

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.63	mg/Kg	1	2.50	<0.19	105	5	80 - 120	20

Sample: LCS QC Batch: QC06393

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		95	mg/Kg	1	100	<5.0	95		75 - 125	20
Total Barium		212	mg/Kg	1	200	<5.0	106		75 - 125	20
Total Cadmium		19.9	mg/Kg	1	20	<2.0	99		75 - 125	20
Total Chromium		48.6	mg/Kg	1	40	<5.0	121		75 - 125	20
Total Lead		99	mg/Kg	1	100	<5.0	99		75 - 125	20
Total Selenium		86	mg/Kg	1	100	<5.0	86		75 - 125	20
Total Silver		4.8	mg/Kg	1	20	<2.0	24		75 - 125	20

Sample: LCSD QC Batch: QC06393

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		95	mg/Kg	1	100	<5.0	95	0	75 - 125	20
Total Barium		213	mg/Kg	1	200	<5.0	106	0	75 - 125	20
Total Cadmium		19.9	mg/Kg	1	20	<2.0	99	0	75 - 125	20
Total Chromium		48.4	mg/Kg	1	40	<5.0	121	0	75 - 125	20
Total Lead		99	mg/Kg	1	100	<5.0	99	0	75 - 125	20
Total Selenium		85	mg/Kg	1	100	<5.0	85	1	75 - 125	20
Total Silver		4.8	mg/Kg	1	20	<2.0	24	0	75 - 125	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC06392

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.53	mg/Kg	1	2.50	0.30	89		80 - 120	20

Sample: MSD QC Batch: QC06392

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.93	mg/Kg	1	2.50	0.30	105	16	80 - 120	20

Sample: MS QC Batch: QC06393

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		89	mg/Kg	1	100	<5.0	89		75 - 125	20
Total Barium		538	mg/Kg	1	200	320	109		75 - 125	20
Total Cadmium		16	mg/Kg	1	20	<2.0	80		75 - 125	20
Total Chromium		40	mg/Kg	1	40	<5.0	100		75 - 125	20
Total Lead		78	mg/Kg	1	100	<5.0	78		75 - 125	20
Total Selenium		77	mg/Kg	1	100	<5.0	77		75 - 125	20
Total Silver		4.7	mg/Kg	1	20	<2.0	23		75 - 125	20

Sample: MSD QC Batch: QC06393

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Arsenic		89	mg/Kg	1	100	<5.0	89	0	75 - 125	20
Total Barium		488	mg/Kg	1	200	320	84	26	75 - 125	20
Total Cadmium		16	mg/Kg	1	20	<2.0	80	0	75 - 125	20
Total Chromium		41	mg/Kg	1	40	<5.0	102	2	75 - 125	20
Total Lead		79	mg/Kg	1	100	<5.0	79	1	75 - 125	20
Total Selenium		79	mg/Kg	1	100	<5.0	79	2	75 - 125	20
Total Silver		5.3	mg/Kg	1	20	<2.0	26	12	75 - 125	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC06392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00485	97	80 - 120	10/27/00

Sample: ICV (1) QC Batch: QC06392

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00502	100	80 - 120	10/27/00

Sample: CCV (1) QC Batch: QC06393

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/Kg	2.50	2.54	101	75 - 125	10/22/00
Total Barium		mg/Kg	5	5.29	105	75 - 125	10/22/00
Total Cadmium		mg/Kg	0.50	0.51	102	75 - 125	10/22/00
Total Chromium		mg/Kg	1	1.03	103	75 - 125	10/22/00
Total Lead		mg/Kg	2.50	2.57	102	75 - 125	10/22/00
Total Selenium		mg/Kg	2.50	2.55	102	75 - 125	10/22/00
Total Silver		mg/Kg	0.50	0.51	102	75 - 125	10/22/00

Sample: ICV (1) QC Batch: QC06393

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Arsenic		mg/Kg	2.50	2.51	100	75 - 125	10/22/00
Total Barium		mg/Kg	5	5.22	104	75 - 125	10/22/00
Total Cadmium		mg/Kg	0.50	0.51	102	75 - 125	10/22/00
Total Chromium		mg/Kg	1	1.02	102	75 - 125	10/22/00
Total Lead		mg/Kg	2.50	2.54	101	75 - 125	10/22/00
Total Selenium		mg/Kg	2.50	2.52	100	75 - 125	10/22/00
Total Silver		mg/Kg	0.50	0.50	100	75 - 125	10/22/00

154478-

A000 92911

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: 1 OF:

CLIENT NAME: Tenaco E & P. Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 786 PROJECT NAME: Tenaco / South Eunice Plant Lea County, NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1006	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Total Hg per SPLP
154478	9/26/00		S	-		Oil & Wtr Sump - 10.0'	1				✓		X																X	NO
79	9/26/00		S	-		Drain Sump - 9.0'	1				✓		X																X	
80	9/27/00		S	-		SOS - 15.0'	1				✓		X																	
81	9/27/00		S	-		East Sump - 10.0'	1				✓		X				X													

RELINQUISHED BY: (Signature) Date: 9/28/00 Time: 3:00 RECEIVED BY: (Signature) Helen Stanton Date: 9/28/00 Time: 3:00

SAMPLED BY: (Print & Sign) IKE Tavarez Date: Time:

RELINQUISHED BY: (Signature) Helen Stanton Date: 9/28/00 Time: 4:00PM RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Trace Labs Date: Time: RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) Nick Alvarez DATE: 9-29-00 TIME: 10:00 AM

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: 1°

10/4/00

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.

IK H samples - H.S. 150 204 01 1

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: October 4, 2000

Order ID Number: A00092911

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
154478	Oil & Water Sump -10-.0'	Soil	9/26/00	:	9/29/00
154479	Drain Sump-9.0'	Soil	9/26/00	:	9/29/00
154480	SOS-15.0'	Soil	9/27/00	:	9/29/00
154481	East Sump-10.0'	Soil	9/27/00	:	9/29/00

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.

This report consists of a total of 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 154478 - Oil & Water Sump -10-.0'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05292	Date Analyzed:	10/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04618	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		8.07	mg/Kg	500	0.001
Toluene		68.8	mg/Kg	500	0.001
Ethylbenzene		96.2	mg/Kg	500	0.001
M,P,O-Xylene		205	mg/Kg	500	0.001
Total BTEX		378	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		46.4	mg/Kg	1	0.10	92	72 - 128
4-BFB	[1]	60.6	mg/Kg	1	0.10	121	72 - 128

Sample: 154479 - Drain Sump-9.0'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05292	Date Analyzed:	10/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04618	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		155	mg/Kg	1000	0.001
Toluene		705	mg/Kg	1000	0.001
Ethylbenzene		298	mg/Kg	1000	0.001
M,P,O-Xylene		606	mg/Kg	1000	0.001
Total BTEX		1760	mg/Kg	1000	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		91.4	mg/Kg	1	0.10	91	72 - 128
4-BFB	[2]	139	mg/Kg	1	0.10	139	72 - 128

Sample: 154480 - SOS-15.0'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05292	Date Analyzed:	10/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04618	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		7.75	mg/Kg	1000	0.001
Toluene		154	mg/Kg	1000	0.001
Ethylbenzene		119	mg/Kg	1000	0.001
M,P,O-Xylene		260	mg/Kg	1000	0.001
Total BTEX		542	mg/Kg	1000	0.001

[1] Surrogate out of limits due to matrix.
[2] Surrogate out of limits due to matrix.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		92.6	mg/Kg	1	0.10	92	72 - 128
4-BFB		117	mg/Kg	1	0.10	117	72 - 128

Sample: 154481 - East Sump-10.0'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC05292	Date Analyzed:	10/2/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB04618	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		1.51	mg/Kg	500	0.001
Toluene		55.5	mg/Kg	500	0.001
Ethylbenzene		74.2	mg/Kg	500	0.001
M,P,O-Xylene		257	mg/Kg	500	0.001
Total BTEX		388	mg/Kg	500	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT	[3]	46.3	mg/Kg	1	0.10	92	72 - 128
4-BFB		73.2	mg/Kg	1	0.10	146	72 - 128

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC05292

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.05	mg/Kg	0.001
Toluene		<0.05	mg/Kg	0.001
Ethylbenzene		<0.05	mg/Kg	0.001
M,P,O-Xylene		<0.05	mg/Kg	0.001
Total BTEX		<0.05	mg/Kg	0.001

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
TFT		5.27	mg/Kg	0.10	105	72 - 128
4-BFB		4.67	mg/Kg	0.10	93	72 - 128

Quality Control Report

[3] Surrogate out of limits due to matrix.

Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.75	mg/Kg	50	0.10	<0.05	95		80 - 120	20
Benzene		4.48	mg/Kg	50	0.10	<0.05	89		80 - 120	20
Toluene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
Ethylbenzene		4.23	mg/Kg	50	0.10	<0.05	84		80 - 120	20
M,P,O-Xylene		14	mg/Kg	50	0.30	<0.05	93		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.83	mg/Kg	50	0.10	96	72 - 128
4-BFB		4.47	mg/Kg	50	0.10	89	72 - 128

Sample: LCSD QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
MTBE		4.75	mg/Kg	50	0.10	<0.05	95	1	80 - 120	20
Benzene		4.33	mg/Kg	50	0.10	<0.05	87	2	80 - 120	20
Toluene		4.66	mg/Kg	50	0.10	<0.05	93	8	80 - 120	20
Ethylbenzene		4.86	mg/Kg	50	0.10	<0.05	97	13	80 - 120	20
M,P,O-Xylene		13	mg/Kg	50	0.30	<0.05	86	7	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.63	mg/Kg	50	0.10	92	72 - 128
4-BFB		4.24	mg/Kg	50	0.10	84	72 - 128

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.42	mg/Kg	50	0.10	<0.05	88		80 - 120	20

Continued ...

... Continued

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Toluene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
Ethylbenzene		4.26	mg/Kg	50	0.10	<0.05	85		80 - 120	20
M,P,O-Xylene		13.9	mg/Kg	50	0.30	<0.05	93		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.52	mg/Kg	50	0.10	90	72 - 128
4-BFB		3.95	mg/Kg	50	0.10	79	72 - 128

Sample: MSD QC Batch: QC05292

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Benzene		4.58	mg/Kg	50	0.10	<0.05	92	4	80 - 120	20
Toluene		4.46	mg/Kg	50	0.10	<0.05	89	4	80 - 120	20
Ethylbenzene		4.51	mg/Kg	50	0.10	<0.05	90	6	80 - 120	20
M,P,O-Xylene		14.1	mg/Kg	50	0.30	<0.05	96	1	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
TFT		4.89	mg/Kg	50	0.10	98	72 - 128
4-BFB		4.68	mg/Kg	50	0.10	94	72 - 128

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.085	85	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.082	82	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.083	83	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.278	92	80 - 120	10/2/00

Sample: CCV (2) QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.1	100	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.092	92	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.092	92	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.308	102	80 - 120	10/2/00

Sample: ICV (1) QC Batch: QC05292

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.10	0.088	88	80 - 120	10/2/00
Toluene		mg/Kg	0.10	0.085	85	80 - 120	10/2/00
Ethylbenzene		mg/Kg	0.10	0.084	84	80 - 120	10/2/00
M,P,O-Xylene		mg/Kg	0.30	0.282	94	80 - 120	10/2/00

A000 92911

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: 1 OF: 1

CLIENT NAME: Texaco E & P. Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 786 PROJECT NAME: Texaco / South Eunice Plant Lea County, NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
154478	9/26/00		S	-		Oil & Water Sump - 10.0'	1				✓		X																
79	9/26/00		S	✓		Drain Sump - 9.0'	1				✓		X																
80	9/27/00		S	✓		SOS - 15.0'	1				✓		X																
81	9/27/00		S	✓		EAST Sump - 10.0'	1				✓		X																

RELINQUISHED BY: (Signature) Date: 9/28/00 Time: 3:00
RECEIVED BY: (Signature) Helen Stanton Date: 9/28/00 Time: 3:00
SAMPLED BY: (Print & Sign) IKE Tavarez / Luben McNeil Date: Time:

RELINQUISHED BY: (Signature) Helen Stanton Date: 9/28/00 Time: 4:00 PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED AIRBILL # OTHER:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace Labs
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Vicki Dusek
DATE: 9-29-00 TIME: 10:00 a

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: 1°

10/4/00

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.

NB 4 samples - HS Bill 159 384 81.41

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
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: October 10, 2000

Order ID Number: A00100413

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
154879	soil Stockpile composite (Drain Sump Area)	Soil	10/2/00	:	10/4/00

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.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 154879 - soil Stockpile composite (Drain Sump Area)

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC05469	Date Analyzed:	10/9/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB04768	Date Prepared:	10/5/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		7.59	mg/Kg	1	0.19

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC05469

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.19	mg/Kg	0.19

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC05469

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.07	mg/Kg	1	2.50	<0.19	82		80 - 120	20

Sample: LCSD QC Batch: QC05469

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury		2.02	mg/Kg	1	2.50	<0.19	80	2	80 - 120	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC05469

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury	[1]	2.39	mg/Kg	1	2.50	6.23	-153		80 - 120	20

Sample: MSD QC Batch: QC05469

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Total Mercury	[2]	1.93	mg/Kg	1	2.50	6.23	-172	-11	80 - 120	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC05469

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00550	110	80 - 120	10/9/00

Sample: ICV (1) QC Batch: QC05469

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/Kg	0.005	0.00534	106	80 - 120	10/9/00

[1] LCS and LCSD reported for % Extraction Accuracy and RPD purposes due to matrix effects of spiked sample.
[2] LCS and LCSD reported for % Extraction Accuracy and RPD purposes due to matrix effects of spiked sample.

154879

A00100413

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: OF:

CLIENT NAME: Texaco E&P Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 786 PROJECT NAME: 10/4/00 / South Eunice Plant Lea County, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	TCLP Pb	
154879	10/3/00		S	X		Soil Stockpile Composite (Drain Sump Area)	1				1																			X	

RELINQUISHED BY: (Signature) Date: 10/3/00 Time: 3:20 PM
RECEIVED BY: (Signature) Helen Shelton Date: 10/3/00 Time: 3:20PM
SAMPLED BY: (Print & Sign) IKE Tavarez Date: Time:

RELINQUISHED BY: (Signature) Helen Shelton Date: 10/3/00 Time: 6:00 PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED AIRBILL # 159 384 OTHER: 861-9

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Vicki Hurley
DATE: 10-4-00 TIME: 10:00AM

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: Rush Please - Need by Thurs - Oct. 5 2001

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

10/10

MS 1 sample - HS

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
HIGHLANDER ENVIRONMENTAL CORP.
Attention: Ike Tavarez
1910 N. Big Spring St.
Midland, TX 79705

October 23, 2000
Receiving Date: 10/04/2000
Sample Type: Soil
Project No: 786
Project Location: NA

Extraction Date: 10/17/2000
Analysis Date: 10/19/2000
Sampling Date: 10/02/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Client Name: Texaco E & P, Inc.
Project Name: Texaco/South Eunice Plant
Lea County, NM

TA#	FIELD CODE	TCLP Hg (mg/L)
	EPA LIMIT =	0.20
T154879	Soil Stockpile Composite (Drain Sump Area)	<0.010
LCV		0.00534
[illegible]V		0.00531
METHOD BLANK		<0.010
REPORTING LIMIT		0.010
LCS		0.0502
LCSD		0.0550
MS		0.0530
MSD		0.0596
RPD		12
% Extraction Accuracy		106
% Instrument Accuracy		107

METHODS: EPA SW 846-1311, 7470A.
CHEMIST: MS
TCLP Hg SPIKE: 0.050 mg/L TCLP Hg.
TCLP Hg CV: 0.005 mg/L TCLP Hg.

Director, Dr. Blair Leftwich

10-23-00
DATE

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

CLIENT NAME: Texaco E&P Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 186 PROJECT NAME: Texaco / South Eunice Plant Lea County, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	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. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS	Gamma Spec.	Alpha Beta	PLM (Asbestos)
151879	10/2/00		S	X		Soil Stockpile Composite (Drain Sump Area)	1				/							X											X

RELINQUISHED BY: (Signature) Date: 10/3/00 Time: 3:20 PM
RECEIVED BY: (Signature) Helen Shelton Date: 10/3/00 Time: 3:20PM
SAMPLED BY: (Print & Sign) IKE Tavarez Date: Time:

RELINQUISHED BY: (Signature) Helen Shelton Date: 10/3/00 Time: 6:00 PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX HAND DELIVERED BUS UPS AIRBILL # 159 3144 OTHER: 861-4

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature) Nick Hinojos
DATE: 10-4-00 TIME: 10:00A

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:
RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: Push Please Need by 10am Oct. 5 2000

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

12/10

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

HIGHLANDER ENVIRONMENTAL CORP.
ATTN: MR. ROBERT McNEILL
1910 N. BIG SPRING STREET
MIDLAND, TEXAS 79705
FAX: 915-682-3946

Sample Type: Soil
Sample Condition: Intact/ Iced/ -8.5 deg. C
Project #: 786
Project Name: South Plant
Project Location: None Given

Sampling Date: 10/23/00
Receiving Date: 10/24/00
Analysis Date: 10/24/00

ELT#	FIELD CODE	Chloride (mg/kg)	TPH (mg/kg)
32976	North Pit (NE Dike Soil)	744	<10
32977	North Pit (SW Dike Soil)	124	80
32978	South Pit (SW Dike Soil)	1471	160
	BLANK	<10	<10
	QUALITY CONTROL	4963	421
	TRUE VALUE	5000	411
	% PRECISION	99	102

Methods: SW 846-9252, EPA 418.1

Raland K. Tuttle

10-25-00
Date

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: OF:

CLIENT NAME: Texaco

SITE MANAGER: Robert McNeill

PROJECT NO.: 786

PROJECT NAME: Eunice, NM South Plant

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 / 8015 MOD. TX1005	PAH-8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
32976A	10/23/2000			X		North pit (NE dike soil)					X				X											X			
32977B	10/23/2000			X		North pit (SW dike soil)					X				X											X			
32978C	10/23/2000			X		South pit (SW dike soil)					X				X											X			

ANALYSIS REQUEST (Circle or Specify Method No.)

RELINQUISHED BY: (Signature) Robert McNeill Date: 10/23/2000 Time: 3:30 PM

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Sign) Robert McNeill Date: 10/23/2000 Time: 3:30 PM

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: 10-24-00 Time: 8:30 AM

RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Environmental Lab

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) Gilbert Kline

DATE: 10-24-00 TIME: 8:30

HIGHLANDER CONTACT PERSON: Robert McNeill

Results by: ASAP

RUSH Charges Authorized: Yes No

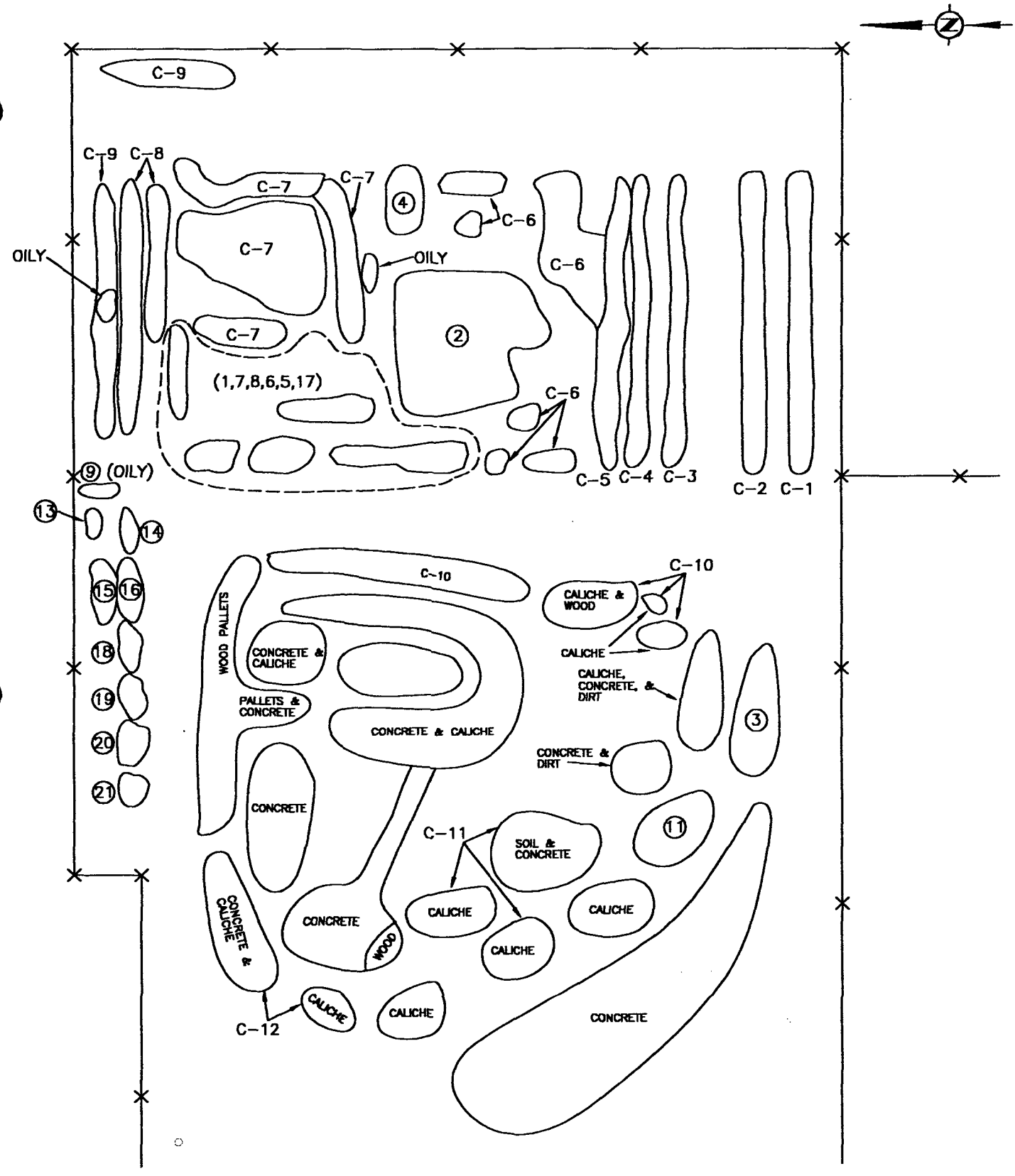
SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water S-Soil A-Air SL-Sludge SD-Solid O-Other

REMARKS: FAX results to Highlander — 8.5°C
Rush Charges OKAY
RUN TPH & chlorides.

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.

APPENDIX D



C-1 = COMPOSITE SAMPLE LOCATION

(11) = STOCK PILE NUMBER

LEA COUNTY, NEW MEXICO

TEXACO EXPLORATION & PRODUCTION INC.

SOUTH PLANT SOIL STOCK PILES
SAMPLED 9/7/00

DATE: 9/8/00
DRN. BY: JDA
FILE: C:\TEXACO\787\SOUTH\STOCKFILE

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

SOIL STOCKPILES SOURCE INDENIFICATION
TEXACO EXPLORATION AND PRODUCTION, INC.
EUNICE (SOUTH) GAS PLANT
LEA COUNTY, NEW MEXICO

Stake	Date	Description
1	5/21/97	North side of cooling tower - between tower and sidewalk.
2	5/21/97	North side of jet skid.
3	2/27/97	Excavation around glycol skid for new foundations and containment. North side of pile is from north and west side of skid.
4	7/21/97	Removal of soil around first stage discharge scrubber foundations.
5	7/22/97	Removal dirt east end jacket water south of storage tanks.
6	8/24/97	Dirt from new foundations on ref. comp. suction line.
7	11/19/97	Soil removed for bringing crane on S.S. Engine Room by gas fans.
8?		
9	12/4/97	Oily soil removed from trough near stablilizer flare.
10	2/18/98	Glycol soaked dirt from Teague Booster Station.
11	4/14/98	New gravity drain south of coil shed.
12	4/22/98	Removal of soil around east end of propane tank and south of all bullet tanks.
13	6/19/98	Removal soil from under jet skid (east-west / south-north sides).
14	7/1/98	Removal of soil from under jet skid (east-west / south-north
		sides).
15	7/13/98	Removal of soil from under jet skid (east, south and north
		sides).
16	8/5/98	Removal of soil from under jet skid (east of skid).
17	8/6/98	Remove extra dirt from pump excavation around propane
		tanks. Pumps 153-0, 152, 152-1 & 153-1, also extra dirt
		from V.R.U. foundations.
18	11/16/98	Extra soil from containment berm around new storage tanks.
19	11/31/98	Refurbish oil dirt around 169 & 169-1 inlet scurbbers and
		120 pumps.
20	12/2/98	Remove extra dirt from excavation around 112 & 112-? scrubbers.
21	2/26/99	Remove soil from stablizer containment.

Soil Remediation ESGP
South Plant

FORM G-6 (1

STAKE	DATE	DESCRIPTION
1	5-21-97	North side of cooling tower. Between tower and sidewalk Frontier
2	5-21-97	North side of jet skid Frontier
3	5-27-97	Excavation around Glycol Skid for new foundations and containment. North side of pile is from north & west side of skid. James Barger
4 - 7-21-97		Removal of soil around 1st Stage Discharge scrubber foundations B.G.
5 - 7-22-97		Removal dirt East and Jacket water south of storage tanks J.G.H.
6	8-24-97	Dirt from new fdns on ref. Comp. suction lines
7 - 11-19-97		soil removed for bringing Crane on S. S. Eng. Rm. by Gas Fans

STAKE NUMBER	DATE	NAME	DESCRIPTION
9	12-4-97	D.D	Oily soil removed from Trough rear Stabilizer flare.
10	2-18-98		Glycol soaked dirt from Tenyue Booster Station "Frontier
11	4-14-98		New Gravity Drain South of Coil Shed
12	4-22-98		Remove of soil Around Gas End of Propane Tank + South of Al Ballast tanks.
13	6-19-98	REF-CHEM J.T	Remove Soil From Under Jet Skid. East-West Sides South-North.
14	7-1-98	REF-CHEM J.T	Removel of Soil From under Jet Skid East-West Sides South-North
15	7-13-98	REF-CHEM J.T	Removel of Soil From under Jet Skid East South and North Side.
16	8-5-98	J.T	Removel of Soil From under Jet Skid East of Skid

FORM G-6 (

STAKE NUMBER	DATE	NAME	DESCRIPTION
17	8/6/98	J. Saucedo	Remove Extra Dirt From pump Excavation Around Propane tanks. Pumps 153-0 & 152 & 153-1 & 153-1 Also Extra Dirt From V.R.U. Foundations
18	11/16/98	J. Saucedo	Extra soil From containment Berm Around new storage tanks.
19	11/31/98	J. Saucedo	Refurbish oil dirt Around 169 & 169-1 Inlet scrubber & 120 pumps.
20	12/2/98	J. Saucedo	Remove Extra dirt From Excavation Around 112 & 113 scrubbers.
21	2-26-99		Remove soil from Stabilizer containment

Table 1: **Results of Soil Sampling of Stockpiles for RCI, TCLP and Total Metals**
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

		RCI						TCLP Metals							
Sample ID	Sample Date	Corro.	pH s.u.	Ignit.	React.	Hydrogen Sulfide	Hydrogen Cyanide	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L
C-1	9/7/00	Non	7.40	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-2	9/7/00	Non	7.89	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-3	9/7/00	Non	7.43	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-4	9/7/00	Non	7.82	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-5	9/7/00	Non	7.71	non-ignit.	non-reac.	<10	<2.5	<0.10	0.13	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-6	9/7/00	Non	7.50	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-7	9/7/00	Non	7.26	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-8	9/7/00	Non	7.58	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-9	9/7/00	Non	7.64	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-10	9/7/00	Non	8.42	non-ignit.	non-reac.	<10	<2.5	<0.10	<0.10	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-11	9/7/00	Non	8.21	non-ignit.	non-reac.	<10	<2.5	<0.10	0.21	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05
C-12	9/7/00	Non	7.86	non-ignit.	non-reac.	<10	<2.5	<0.10	1.2	<0.02	<0.05	<0.10	<0.010	<0.10	<0.05

		RCI						Total Metals							
Sample ID	Sample Date	Corros. mm/yr	pH s.u.	Ignit.	React.	Hydrogen Sulfide	Hydrogen Cyanide	Arsenic mg/L	Barium mg/L	Cadmium mg/L	Chromium mg/L	Lead mg/L	Mercury mg/L	Selenium mg/L	Silver mg/L
C-13	9/7/00	NA	NA	NA	NA	NA	NA	<5.0	136	<2.0	13	15	0.61	<5.0	<2.0

NA: indicates sample was not analyzed for this parameter

Table 2: Summary of TCLP Volatiles in Stockpiles
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Sample ID	Sample Date	Vinyl Chloride mg/L	1,1-Dichloroethene mg/L	Methyl ethyl ketone mg/L	Chloroform mg/L	1,2-Dichloroethane (EDC) mg/L
C-1	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-2	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-3	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-4	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-5	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-6	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-7	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-8	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-9	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-10	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-11	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10
C-12	9/7/00	<0.10	<0.10	<0.50	<0.10	<0.10

Sample ID	Sample Date	Benzene mg/L	Carbon Tetrachloride mg/L	Trichloroethene (TCE) mg/L	Tetrachloroethene (PCE) mg/L	Chlorobenzene mg/L	1,4-Dichlorobenzene mg/L
C-1	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-2	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-3	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-4	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-5	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-6	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-7	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-8	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-9	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-10	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-11	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
C-12	9/7/00	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

C indicates a composite soil sample

Table 3: Summary of TCLP Semivolatiles in Stockpiles
Texaco Exploration and Production, Inc., Eunice #1 (South) Gas Plant
Lea County, New Mexico

Sample ID	Sample Date	Pyridine mg/L	1,4-Dichlorobenzene mg/L	o-Cresol mg/L	m,p-Cresol mg/L	Hexachloroethane mg/L	2,4,6-Trichlorophenol mg/L
C-1	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-2	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-3	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-4	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-5	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-6	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-7	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-8	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-9	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-10	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-11	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-12	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Sample ID	Sample Date	2,4,5-Trichlorophenol mg/L	2,4-Dinitrotoluene mg/L	2,4-D mg/L	Hexachlorobenzene mg/L	2,4,5-TP mg/L	Pentachlorophenol mg/L
C-1	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-2	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-3	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-4	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-5	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-6	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-7	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-8	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-9	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-10	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-11	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
C-12	9/7/00	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

TRACEANALYSIS, INC.

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Analytical and Quality Control Report

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

Report Date: September 26, 2000

Order ID Number: A00091108

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
153201	C-1 (Composite)	Soil	9/7/00	:	9/9/00
153202	C-2 (Composite)	Soil	9/7/00	:	9/9/00
153203	C-3 (Composite)	Soil	9/7/00	:	9/9/00
153204	C-4 (Composite)	Soil	9/7/00	:	9/9/00
153205	C-5 (Composite)	Soil	9/7/00	:	9/9/00
153206	C-6 (Composite)	Soil	9/7/00	:	9/9/00
153207	C-7 (Composite)	Soil	9/7/00	:	9/9/00
153208	C-8 (Composite)	Soil	9/7/00	:	9/9/00
153209	C-9 (Composite)	Soil	9/7/00	:	9/9/00
153210	C-10 (Composite)	Soil	9/7/00	:	9/9/00
153211	C-11 (Composite)	Soil	9/7/00	:	9/9/00
153212	C-12 (Composite)	Soil	9/7/00	:	9/9/00

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.

This report consists of a total of 46 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 153201 - C-1 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.40	s.u.	1	

Sample: 153201 - C-1 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153201 - C-1 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153201 - C-1 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153201 - C-1 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10

Continued ...

... Continued Sample: 153201 Analysis: TCLP Metals

Param	Flag	Result	Units	Dilution	RDL
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153201 - C-1 (Composite)

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC04919 Date Analyzed: 9/14/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB04280 Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		37.73	mg/L	1	80	47	20 - 67
Phenol-d5		25.72	mg/L	1	80	32	7 - 55
Nitrobenzene-d5		65.98	mg/L	1	80	82	33 - 116
2-Fluorobiphenyl		63.77	mg/L	1	80	79	47 - 107
2,4,6-Tribromophenol		83.68	mg/L	1	80	104	47 - 113
Terphenyl-d14		73.26	mg/L	1	80	91	47 - 124

Sample: 153201 - C-1 (Composite)

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC04935 Date Analyzed: 9/12/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB04292 Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49.50	mg/L	1	50	99	80 - 120
Toluene-d8		48.50	mg/L	1	50	97	80 - 120
4-Bromofluorobenzene		48	mg/L	1	50	96	80 - 120

Sample: 153202 - C-2 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.89	s.u.	1	

Sample: 153202 - C-2 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153202 - C-2 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153202 - C-2 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153202 - C-2 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10

Continued ...

... *Continued* Sample: 153202 Analysis: TCLP Metals

Param	Flag	Result	Units	Dilution	RDL
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153202 - C-2 (Composite)

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC04919 Date Analyzed: 9/14/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB04280 Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		39.48	mg/L	1	80	49	20 - 67
Phenol-d5		26.75	mg/L	1	80	33	7 - 55
Nitrobenzene-d5		66.76	mg/L	1	80	83	33 - 116
2-Fluorobiphenyl		63.99	mg/L	1	80	79	47 - 107
2,4,6-Tribromophenol		77.37	mg/L	1	80	96	47 - 113
Terphenyl-d14		70.11	mg/L	1	80	87	47 - 124

Sample: 153202 - C-2 (Composite)

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC04935 Date Analyzed: 9/12/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB04292 Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002

Continued ...

... Continued Sample: 153202 Analysis: TCLP Volatiles

Param	Flag	Result	Units	Dilution	RDL
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.50	mg/L	1	50	101	80 - 120
Toluene-d8		49.50	mg/L	1	50	99	80 - 120
4-Bromofluorobenzene		49	mg/L	1	50	98	80 - 120

Sample: 153203 - C-3 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.43	s.u.	1	

Sample: 153203 - C-3 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153203 - C-3 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153203 - C-3 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153203 - C-3 (Composite)

Analysis: TCLP Metals | Analytical Method: S 6010B | QC Batch: QC05102 | Date Analyzed: 9/15/00
Analyst: RR | Preparation Method: E 1311 | Prep Batch: PB04278 | Date Prepared: 9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153203 - C-3 (Composite)

Analysis: TCLP Semivolatiles | Analytical Method: E 8270C | QC Batch: QC04919 | Date Analyzed: 9/14/00
Analyst: MA | Preparation Method: 1311 | Prep Batch: PB04280 | Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		30.33	mg/L	1	80	37	20 - 67
Phenol-d5		18.54	mg/L	1	80	23	7 - 55
Nitrobenzene-d5		65.95	mg/L	1	80	82	33 - 116
2-Fluorobiphenyl		63.67	mg/L	1	80	79	47 - 107
2,4,6-Tribromophenol		80.31	mg/L	1	80	100	47 - 113
Terphenyl-d14		79.71	mg/L	1	80	99	47 - 124

Sample: 153203 - C-3 (Composite)

Analysis: TCLP Volatiles | Analytical Method: S 8260B | QC Batch: QC04935 | Date Analyzed: 9/12/00
Analyst: JG | Preparation Method: 1311 | Prep Batch: PB04292 | Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002

Continued ...

... *Continued* Sample: 153203 Analysis: TCLP Volatiles

Param	Flag	Result	Units	Dilution	RDL
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52	mg/L	1	50	104	80 - 120
Toluene-d8		49	mg/L	1	50	98	80 - 120
4-Bromofluorobenzene		49	mg/L	1	50	98	80 - 120

Sample: 153204 - C-4 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.82	s.u.	1	

Sample: 153204 - C-4 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153204 - C-4 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153204 - C-4 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153204 - C-4 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153204 - C-4 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04919	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		31.08	mg/L	1	80	38	20 - 67
Phenol-d5		19.76	mg/L	1	80	24	7 - 55
Nitrobenzene-d5		68.98	mg/L	1	80	86	33 - 116
2-Fluorobiphenyl		66.63	mg/L	1	80	83	47 - 107
2,4,6-Tribromophenol		79.63	mg/L	1	80	99	47 - 113
Terphenyl-d14		72.37	mg/L	1	80	90	47 - 124

Sample: 153204 - C-4 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04935	Date Analyzed:	9/12/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04292	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52.50	mg/L	1	50	105	80 - 120
Toluene-d8		50.50	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		48.50	mg/L	1	50	97	80 - 120

Sample: 153205 - C-5 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.71	s.u.	1	

Sample: 153205 - C-5 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153205 - C-5 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153205 - C-5 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153205 - C-5 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		0.13	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153205 - C-5 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04920	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		35.83	mg/L	1	80	44	20 - 67
Phenol-d5		24.22	mg/L	1	80	30	7 - 55
Nitrobenzene-d5		60.35	mg/L	1	80	75	33 - 116
2-Fluorobiphenyl		57.63	mg/L	1	80	72	47 - 107
2,4,6-Tribromophenol		71.73	mg/L	1	80	89	47 - 113
Terphenyl-d14		69.69	mg/L	1	80	87	47 - 124

Sample: 153205 - C-5 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04935	Date Analyzed:	9/12/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04292	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52	mg/L	1	50	104	80 - 120
Toluene-d8		50.50	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		48	mg/L	1	50	96	80 - 120

Sample: 153206 - C-6 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.50	s.u.	1	

Sample: 153206 - C-6 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153206 - C-6 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153206 - C-6 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153206 - C-6 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153206 - C-6 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04920	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		63.44	mg/L	1	80	79	20 - 67
Phenol-d5		65.44	mg/L	1	80	81	7 - 55
Nitrobenzene-d5		70.29	mg/L	1	80	87	33 - 116
2-Fluorobiphenyl		64.82	mg/L	1	80	81	47 - 107
2,4,6-Tribromophenol		87.40	mg/L	1	80	109	47 - 113
Terphenyl-d14		72.36	mg/L	1	80	90	47 - 124

Sample: 153206 - C-6 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04935	Date Analyzed:	9/12/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04292	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52	mg/L	1	50	104	80 - 120
Toluene-d8		49.50	mg/L	1	50	99	80 - 120
4-Bromofluorobenzene		49	mg/L	1	50	98	80 - 120

Sample: 153207 - C-7 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.26	s.u.	1	

Sample: 153207 - C-7 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153207 - C-7 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153207 - C-7 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04984	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04342	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153207 - C-7 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153207 - C-7 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04920	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		59.10	mg/L	1	80	73	20 - 67
Phenol-d5		61.17	mg/L	1	80	76	7 - 55
Nitrobenzene-d5		68.94	mg/L	1	80	86	33 - 116
2-Fluorobiphenyl		65.85	mg/L	1	80	82	47 - 107
2,4,6-Tribromophenol		87.91	mg/L	1	80	109	47 - 113
Terphenyl-d14		71.16	mg/L	1	80	88	47 - 124

Sample: 153207 - C-7 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04937	Date Analyzed:	9/16/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04294	Date Prepared:	9/15/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50	mg/L	1	50	100	80 - 120
Toluene-d8		50	mg/L	1	50	100	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: 153208 - C-8 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.58	s.u.	1	

Sample: 153208 - C-8 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153208 - C-8 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153208 - C-8 (Composite)

Analysis: TCLP Hg | Analytical Method: S 7470A | QC Batch: QC04984 | Date Analyzed: 9/15/00
Analyst: MS | Preparation Method: E 1311 | Prep Batch: PB04342 | Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153208 - C-8 (Composite)

Analysis: TCLP Metals | Analytical Method: S 6010B | QC Batch: QC05102 | Date Analyzed: 9/15/00
Analyst: RR | Preparation Method: E 1311 | Prep Batch: PB04278 | Date Prepared: 9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153208 - C-8 (Composite)

Analysis: TCLP Semivolatiles | Analytical Method: E 8270C | QC Batch: QC04920 | Date Analyzed: 9/14/00
Analyst: MA | Preparation Method: 1311 | Prep Batch: PB04280 | Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		64.80	mg/L	1	80	81	20 - 67
Phenol-d5		63.89	mg/L	1	80	79	7 - 55
Nitrobenzene-d5		72.06	mg/L	1	80	90	33 - 116
2-Fluorobiphenyl		69.00	mg/L	1	80	86	47 - 107
2,4,6-Tribromophenol		80.79	mg/L	1	80	100	47 - 113
Terphenyl-d14		73.88	mg/L	1	80	92	47 - 124

Sample: 153208 - C-8 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04937	Date Analyzed:	9/16/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04294	Date Prepared:	9/15/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		49	mg/L	1	50	98	80 - 120
Toluene-d8		50	mg/L	1	50	100	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: 153209 - C-9 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.64	s.u.	1	

Sample: 153209 - C-9 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153209 - C-9 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153209 - C-9 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04985	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04343	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153209 - C-9 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153209 - C-9 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04920	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		59.12	mg/L	1	80	73	20 - 67
Phenol-d5		57.85	mg/L	1	80	72	7 - 55
Nitrobenzene-d5		70.32	mg/L	1	80	87	33 - 116
2-Fluorobiphenyl		65.69	mg/L	1	80	82	47 - 107
2,4,6-Tribromophenol		90.78	mg/L	1	80	113	47 - 113
Terphenyl-d14		74.83	mg/L	1	80	93	47 - 124

Sample: 153209 - C-9 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04937	Date Analyzed:	9/16/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04294	Date Prepared:	9/15/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51	mg/L	1	50	102	80 - 120
Toluene-d8		50.50	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: 153210 - C-10 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05086	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04435	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		8.42	s.u.	1	

Sample: 153210 - C-10 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05085	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04432	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153210 - C-10 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05087	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04437	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153210 - C-10 (Composite)

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC04985	Date Analyzed:	9/15/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04343	Date Prepared:	9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153210 - C-10 (Composite)

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05102	Date Analyzed:	9/15/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04278	Date Prepared:	9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153210 - C-10 (Composite)

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC04920	Date Analyzed:	9/14/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB04280	Date Prepared:	9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		63.96	mg/L	1	80	79	20 - 67
Phenol-d5		59.62	mg/L	1	80	74	7 - 55
Nitrobenzene-d5		76.29	mg/L	1	80	95	33 - 116
2-Fluorobiphenyl		70.95	mg/L	1	80	88	47 - 107
2,4,6-Tribromophenol		84.75	mg/L	1	80	105	47 - 113
Terphenyl-d14		79.44	mg/L	1	80	99	47 - 124

Sample: 153210 - C-10 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04937	Date Analyzed:	9/16/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04294	Date Prepared:	9/15/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51	mg/L	1	50	102	80 - 120
Toluene-d8		50.50	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: 153211 - C-11 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05089	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04436	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		8.21	s.u.	1	

Sample: 153211 - C-11 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05088	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04434	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153211 - C-11 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05090	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04438	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153211 - C-11 (Composite)

Analysis: TCLP Hg | Analytical Method: S 7470A | QC Batch: QC04985 | Date Analyzed: 9/15/00
Analyst: MS | Preparation Method: E 1311 | Prep Batch: PB04343 | Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153211 - C-11 (Composite)

Analysis: TCLP Metals | Analytical Method: S 6010B | QC Batch: QC05103 | Date Analyzed: 9/15/00
Analyst: RR | Preparation Method: E 1311 | Prep Batch: PB04452 | Date Prepared: 9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		0.21	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153211 - C-11 (Composite)

Analysis: TCLP Semivolatiles | Analytical Method: E 8270C | QC Batch: QC04920 | Date Analyzed: 9/14/00
Analyst: MA | Preparation Method: 1311 | Prep Batch: PB04280 | Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		56.83	mg/L	1	80	71	20 - 67
Phenol-d5		60.47	mg/L	1	80	75	7 - 55
Nitrobenzene-d5		67.51	mg/L	1	80	84	33 - 116
2-Fluorobiphenyl		62.80	mg/L	1	80	78	47 - 107
2,4,6-Tribromophenol		85.84	mg/L	1	80	107	47 - 113
Terphenyl-d14		76.02	mg/L	1	80	95	47 - 124

Sample: 153211 - C-11 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04937	Date Analyzed:	9/16/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04294	Date Prepared:	9/15/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		51.50	mg/L	1	50	103	80 - 120
Toluene-d8		50.50	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		49.50	mg/L	1	50	99	80 - 120

Sample: 153212 - C-12 (Composite)

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05089	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04436	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.86	s.u.	1	

Sample: 153212 - C-12 (Composite)

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05088	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04434	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 153212 - C-12 (Composite)

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05090	Date Analyzed:	9/22/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04438	Date Prepared:	9/22/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 153212 - C-12 (Composite)

Analysis: TCLP Hg | Analytical Method: S 7470A | QC Batch: QC04985 | Date Analyzed: 9/15/00
Analyst: MS | Preparation Method: E 1311 | Prep Batch: PB04343 | Date Prepared: 9/12/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 153212 - C-12 (Composite)

Analysis: TCLP Metals | Analytical Method: S 6010B | QC Batch: QC05103 | Date Analyzed: 9/15/00
Analyst: RR | Preparation Method: E 1311 | Prep Batch: PB04452 | Date Prepared: 9/14/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		1.2	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 153212 - C-12 (Composite)

Analysis: TCLP Semivolatiles | Analytical Method: E 8270C | QC Batch: QC04920 | Date Analyzed: 9/14/00
Analyst: MA | Preparation Method: 1311 | Prep Batch: PB04280 | Date Prepared: 9/13/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		70.48	mg/L	1	80	88	20 - 67
Phenol-d5		69.95	mg/L	1	80	87	7 - 55
Nitrobenzene-d5		78.03	mg/L	1	80	97	33 - 116
2-Fluorobiphenyl		71.14	mg/L	1	80	88	47 - 107
2,4,6-Tribromophenol		96.81	mg/L	1	80	121	47 - 113
Terphenyl-d14		77.47	mg/L	1	80	96	47 - 124

Sample: 153212 - C-12 (Composite)

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC05091	Date Analyzed:	9/21/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04440	Date Prepared:	9/17/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC04919

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		27.90	mg/L	80	34	20 - 67
Phenol-d5		17.35	mg/L	80	21	7 - 55
Nitrobenzene-d5		65.69	mg/L	80	82	33 - 116
2-Fluorobiphenyl		61.59	mg/L	80	76	47 - 107
2,4,6-Tribromophenol		63.77	mg/L	80	79	47 - 113
Terphenyl-d14		69.67	mg/L	80	87	47 - 124

Sample: Method Blank

QCBatch: QC04920

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		27.90	mg/L	80	34	20 - 67
Phenol-d5		17.35	mg/L	80	21	7 - 55
Nitrobenzene-d5		65.69	mg/L	80	82	33 - 116
2-Fluorobiphenyl		61.59	mg/L	80	76	47 - 107
2,4,6-Tribromophenol		63.77	mg/L	80	79	47 - 113
Terphenyl-d14		69.67	mg/L	80	87	47 - 124

Sample: Method Blank

QCBatch: QC04935

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.10	mg/L	0.002
1,1-Dichloroethene		<0.10	mg/L	0.002
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.10	mg/L	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	0.002
Benzene		<0.10	mg/L	0.002
Carbon Tetrachloride		<0.10	mg/L	0.002
Trichloroethene (TCE)		<0.10	mg/L	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	0.002
Chlorobenzene		<0.10	mg/L	0.002
1,4-Dichlorobenzene		<0.10	mg/L	0.002

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		52	mg/L	50	104	80 - 120
Toluene-d8		49	mg/L	50	98	80 - 120
4-Bromofluorobenzene		47.50	mg/L	50	95	80 - 120

Sample: Method Blank

QCBatch: QC04937

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.10	mg/L	0.002
1,1-Dichloroethene		<0.10	mg/L	0.002
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.10	mg/L	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	0.002
Benzene		<0.10	mg/L	0.002
Carbon Tetrachloride		<0.10	mg/L	0.002
Trichloroethene (TCE)		<0.10	mg/L	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	0.002
Chlorobenzene		<0.10	mg/L	0.002
1,4-Dichlorobenzene		<0.10	mg/L	0.002

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		52.50	mg/L	50	105	80 - 120
Toluene-d8		52	mg/L	50	104	80 - 120
4-Bromofluorobenzene		51.50	mg/L	50	103	80 - 120

Sample: Method Blank

QCBatch: QC04984

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Sample: Method Blank

QCBatch: QC04985

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Sample: Method Blank

QCBatch: QC05091

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.10	mg/L	0.002
1,1-Dichloroethene		<0.10	mg/L	0.002
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.10	mg/L	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	0.002
Benzene		<0.10	mg/L	0.002
Carbon Tetrachloride		<0.10	mg/L	0.002
Trichloroethene (TCE)		<0.10	mg/L	0.002

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Param	Flag	*Results*	*Units*	Reporting *Limit*
Tetrachloroethene (PCE)		<0.10	mg/L	0.002
Chlorobenzene		<0.10	mg/L	0.002
1,4-Dichlorobenzene		<0.10	mg/L	0.002

Sample: Method Blank QCBatch: QC05102

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.10	mg/L	0.10
TCLP Barium		<0.10	mg/L	0.10
TCLP Cadmium		<0.02	mg/L	0.02
TCLP Chromium		<0.05	mg/L	0.05
TCLP Lead		<0.10	mg/L	0.10
TCLP Selenium		<0.10	mg/L	0.10
TCLP Silver		<0.05	mg/L	0.05

Sample: Method Blank QCBatch: QC05103

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.10	mg/L	0.10
TCLP Barium		<0.10	mg/L	0.10
TCLP Cadmium		<0.02	mg/L	0.02
TCLP Chromium		<0.05	mg/L	0.05
TCLP Lead		<0.10	mg/L	0.10
TCLP Selenium		<0.10	mg/L	0.10
TCLP Silver		<0.05	mg/L	0.05

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04919

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		14.42	mg/L	1	80	<0.05	18		0 - 92	20
1,4-Dichlorobenzene		52.23	mg/L	1	80	<0.05	65		39 - 87	20
o-Cresol		42.54	mg/L	1	80	<0.05	53		41 - 92	20
m,p-Cresol		77.76	mg/L	1	160	<0.05	48		7 - 127	20
Hexachloroethane		53.79	mg/L	1	80	<0.05	67		35 - 85	20
Nitrobenzene		57.94	mg/L	1	80	<0.05	72		43 - 108	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Hexachlorobutadiene		55.46	mg/L	1	80	<0.05	69		38 - 89	20
2,4,6-Trichlorophenol		55.54	mg/L	1	80	<0.05	69		47 - 107	20
2,4,5-Trichlorophenol		58.16	mg/L	1	80	<0.05	72		49 - 105	20
2,4-Dinitrotoluene		58.69	mg/L	1	80	<0.05	73		49 - 105	20
2,4-D		71.19	mg/L	1	80	<0.05	88		0 - 127	20
Hexachlorobenzene		69.32	mg/L	1	80	<0.05	86		47 - 122	20
2,4,5-TP		67.04	mg/L	1	80	<0.05	83		0 - 130	20
Pentachlorophenol		47.88	mg/L	1	80	<0.05	59		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		28.47	mg/L	1	80	35	20 - 67
Phenol-d5		17.55	mg/L	1	80	21	7 - 55
Nitrobenzene-d5		62.37	mg/L	1	80	77	33 - 116
2-Fluorobiphenyl		61.56	mg/L	1	80	76	47 - 107
2,4,6-Tribromophenol		69.71	mg/L	1	80	87	47 - 113
Terphenyl-d14		70.40	mg/L	1	80	88	47 - 124

Sample: LCSD

QC Batch: QC04919

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		17.46	mg/L	1	80	<0.05	21	19	0 - 92	20
1,4-Dichlorobenzene		56.80	mg/L	1	80	<0.05	71	8	39 - 87	20
o-Cresol		44.70	mg/L	1	80	<0.05	55	5	41 - 92	20
m,p-Cresol		79.03	mg/L	1	160	<0.05	49	2	7 - 127	20
Hexachloroethane		59.30	mg/L	1	80	<0.05	74	10	35 - 85	20
Nitrobenzene		63.16	mg/L	1	80	<0.05	78	9	43 - 108	20
Hexachlorobutadiene		61.12	mg/L	1	80	<0.05	76	10	38 - 89	20
2,4,6-Trichlorophenol		59.99	mg/L	1	80	<0.05	74	8	47 - 107	20
2,4,5-Trichlorophenol		63.70	mg/L	1	80	<0.05	79	9	49 - 105	20
2,4-Dinitrotoluene		62.98	mg/L	1	80	<0.05	78	7	49 - 105	20
2,4-D		75.39	mg/L	1	80	<0.05	94	6	0 - 127	20
Hexachlorobenzene		68.58	mg/L	1	80	<0.05	85	1	47 - 122	20
2,4,5-TP		67.63	mg/L	1	80	<0.05	84	1	0 - 130	20
Pentachlorophenol		53.09	mg/L	1	80	<0.05	66	10	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		30.48	mg/L	1	80	38	20 - 67
Phenol-d5		18.58	mg/L	1	80	23	7 - 55
Nitrobenzene-d5		66.86	mg/L	1	80	83	33 - 116
2-Fluorobiphenyl		64.79	mg/L	1	80	80	47 - 107
2,4,6-Tribromophenol		75.72	mg/L	1	80	94	47 - 113

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Terphenyl-d14		70.38	mg/L	1	80	87	47 - 124

Sample: LCS

QC Batch: QC04920

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		14.42	mg/L	1	80	<0.05	18		0 - 92	20
1,4-Dichlorobenzene		52.23	mg/L	1	80	<0.05	65		39 - 87	20
o-Cresol		42.54	mg/L	1	80	<0.05	53		41 - 92	20
m,p-Cresol		77.76	mg/L	1	160	<0.05	48		7 - 127	20
Hexachloroethane		53.79	mg/L	1	80	<0.05	67		35 - 85	20
Nitrobenzene		57.94	mg/L	1	80	<0.05	72		43 - 108	20
Hexachlorobutadiene		55.46	mg/L	1	80	<0.05	69		38 - 89	20
2,4,6-Trichlorophenol		55.54	mg/L	1	80	<0.05	69		47 - 107	20
2,4,5-Trichlorophenol		58.16	mg/L	1	80	<0.05	72		49 - 105	20
2,4-Dinitrotoluene		58.69	mg/L	1	80	<0.05	73		49 - 105	20
2,4-D		71.19	mg/L	1	80	<0.05	88		0 - 127	20
Hexachlorobenzene		69.32	mg/L	1	80	<0.05	86		47 - 122	20
2,4,5-TP		67.04	mg/L	1	80	<0.05	83		0 - 130	20
Pentachlorophenol		47.88	mg/L	1	80	<0.05	59		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		28.47	mg/L	1	80	35	20 - 67
Phenol-d5		17.55	mg/L	1	80	21	7 - 55
Nitrobenzene-d5		62.37	mg/L	1	80	77	33 - 116
2-Fluorobiphenyl		61.56	mg/L	1	80	76	47 - 107
2,4,6-Tribromophenol		69.71	mg/L	1	80	87	47 - 113
Terphenyl-d14		70.40	mg/L	1	80	88	47 - 124

Sample: LCSD

QC Batch: QC04920

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		17.46	mg/L	1	80	<0.05	21	19	0 - 92	20
1,4-Dichlorobenzene		56.80	mg/L	1	80	<0.05	71	8	39 - 87	20
o-Cresol		44.70	mg/L	1	80	<0.05	55	5	41 - 92	20
m,p-Cresol		79.03	mg/L	1	160	<0.05	49	2	7 - 127	20
Hexachloroethane		59.30	mg/L	1	80	<0.05	74	10	35 - 85	20
Nitrobenzene		63.16	mg/L	1	80	<0.05	78	9	43 - 108	20
Hexachlorobutadiene		61.12	mg/L	1	80	<0.05	76	10	38 - 89	20
2,4,6-Trichlorophenol		59.99	mg/L	1	80	<0.05	74	8	47 - 107	20
2,4,5-Trichlorophenol		63.70	mg/L	1	80	<0.05	79	9	49 - 105	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
2,4-Dinitrotoluene		62.98	mg/L	1	80	<0.05	78	7	49 - 105	20
2,4-D		75.39	mg/L	1	80	<0.05	94	6	0 - 127	20
Hexachlorobenzene		68.58	mg/L	1	80	<0.05	85	1	47 - 122	20
2,4,5-TP		67.63	mg/L	1	80	<0.05	84	1	0 - 130	20
Pentachlorophenol		53.09	mg/L	1	80	<0.05	66	10	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		30.48	mg/L	1	80	38	20 - 67
Phenol-d5		18.58	mg/L	1	80	23	7 - 55
Nitrobenzene-d5		66.86	mg/L	1	80	83	33 - 116
2-Fluorobiphenyl		64.79	mg/L	1	80	80	47 - 107
2,4,6-Tribromophenol		75.72	mg/L	1	80	94	47 - 113
Terphenyl-d14		70.38	mg/L	1	80	87	47 - 124

Sample: LCS

QC Batch: QC04935

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.43	mg/L	1	5	<0.10	128		80 - 120	20
1,1-Dichloroethene		6.48	mg/L	1	5	<0.10	129		80 - 120	20
Methyl ethyl ketone		4.70	mg/L	1	5	<0.50	94		80 - 120	20
Chloroform		5.06	mg/L	1	5	<0.10	101		80 - 120	20
1,2-Dichloroethane (EDC)		4.71	mg/L	1	5	<0.10	94		80 - 120	20
Benzene		5.33	mg/L	1	5	<0.10	106		80 - 120	20
Carbon Tetrachloride		5.31	mg/L	1	5	<0.10	106		80 - 120	20
Trichloroethene (TCE)		5.18	mg/L	1	5	<0.10	103		80 - 120	20
Tetrachloroethene (PCE)		5.52	mg/L	1	5	<0.10	110		80 - 120	20
Chlorobenzene		5.58	mg/L	1	5	<0.10	111		80 - 120	20
1,4-Dichlorobenzene		5.05	mg/L	1	5	<0.10	101		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51	mg/L	1	50	102	80 - 120
Toluene-d8		48.5	mg/L	1	50	97	80 - 120
4-Bromofluorobenzene		47.5	mg/L	1	50	95	80 - 120

Sample: LCSD

QC Batch: QC04935

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.28	mg/L	1	5	<0.10	125	2	80 - 120	20
1,1-Dichloroethene		6.33	mg/L	1	5	<0.10	126	2	80 - 120	20
Methyl ethyl ketone		4.78	mg/L	1	5	<0.50	95	2	80 - 120	20
Chloroform		5.00	mg/L	1	5	<0.10	100	1	80 - 120	20
1,2-Dichloroethane (EDC)		4.70	mg/L	1	5	<0.10	94	0	80 - 120	20
Benzene		5.38	mg/L	1	5	<0.10	107	1	80 - 120	20
Carbon Tetrachloride		5.32	mg/L	1	5	<0.10	106	0	80 - 120	20
Trichloroethene (TCE)		5.35	mg/L	1	5	<0.10	107	3	80 - 120	20
Tetrachloroethene (PCE)		5.44	mg/L	1	5	<0.10	108	1	80 - 120	20
Chlorobenzene		5.58	mg/L	1	5	<0.10	111	0	80 - 120	20
1,4-Dichlorobenzene		5.04	mg/L	1	5	<0.10	100	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.5	mg/L	1	50	101	80 - 120
Toluene-d8		49	mg/L	1	50	98	80 - 120
4-Bromofluorobenzene		48	mg/L	1	50	96	80 - 120

Sample: LCS QC Batch: QC04937

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.65	mg/L	1	5	<0.10	133		80 - 120	20
1,1-Dichloroethene		6.23	mg/L	1	5	<0.10	124		80 - 120	20
Methyl ethyl ketone		4.62	mg/L	1	5	<0.50	92		80 - 120	20
Chloroform		5.20	mg/L	1	5	<0.10	104		80 - 120	20
1,2-Dichloroethane (EDC)		5.22	mg/L	1	5	<0.10	104		80 - 120	20
Benzene		5.15	mg/L	1	5	<0.10	103		80 - 120	20
Carbon Tetrachloride		5.43	mg/L	1	5	<0.10	108		80 - 120	20
Trichloroethene (TCE)		5.15	mg/L	1	5	<0.10	103		80 - 120	20
Tetrachloroethene (PCE)		5.01	mg/L	1	5	<0.10	100		80 - 120	20
Chlorobenzene		5.19	mg/L	1	5	<0.10	103		80 - 120	20
1,4-Dichlorobenzene		4.86	mg/L	1	5	<0.10	97		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.5	mg/L	1	50	101	80 - 120
Toluene-d8		49.5	mg/L	1	50	99	80 - 120
4-Bromofluorobenzene		49	mg/L	1	50	98	80 - 120

Sample: LCSD QC Batch: QC04937

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.39	mg/L	1	5	<0.10	127	4	80 - 120	20
1,1-Dichloroethene		6.14	mg/L	1	5	<0.10	122	1	80 - 120	20
Methyl ethyl ketone		4.20	mg/L	1	5	<0.50	84	10	80 - 120	20
Chloroform		5.00	mg/L	1	5	<0.10	100	4	80 - 120	20
1,2-Dichloroethane (EDC)		4.91	mg/L	1	5	<0.10	98	6	80 - 120	20
Benzene		5.11	mg/L	1	5	<0.10	102	1	80 - 120	20
Carbon Tetrachloride		5.41	mg/L	1	5	<0.10	108	0	80 - 120	20
Trichloroethene (TCE)		5.12	mg/L	1	5	<0.10	102	0	80 - 120	20
Tetrachloroethene (PCE)		5.13	mg/L	1	5	<0.10	102	2	80 - 120	20
Chlorobenzene		5.18	mg/L	1	5	<0.10	103	0	80 - 120	20
1,4-Dichlorobenzene		4.85	mg/L	1	5	<0.10	97	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50	mg/L	1	50	100	80 - 120
Toluene-d8		49.5	mg/L	1	50	99	80 - 120
4-Bromofluorobenzene		49	mg/L	1	50	98	80 - 120

Sample: LCS QC Batch: QC04984

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0534	mg/L	1	0.05	<0.010	106		80 - 120	20

Sample: LCSD QC Batch: QC04984

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0573	mg/L	1	0.05	<0.010	114	7	80 - 120	20

Sample: LCS QC Batch: QC04985

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0534	mg/L	1	0.05	<0.010	106		80 - 120	20

Sample: LCSD QC Batch: QC04985

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0573	mg/L	1	0.05	<0.010	114	7	80 - 120	20

Sample: LCS

QC Batch: QC05091

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.75	mg/L	1	5	<0.10	135		80 - 120	20
1,1-Dichloroethene		6.65	mg/L	1	5	<0.10	133		80 - 120	20
Methyl ethyl ketone		5.49	mg/L	1	5	<0.50	109		80 - 120	20
Chloroform		5.41	mg/L	1	5	<0.10	108		80 - 120	20
1,2-Dichloroethane (EDC)		5.43	mg/L	1	5	<0.10	108		80 - 120	20
Benzene		5.52	mg/L	1	5	<0.10	110		80 - 120	20
Carbon Tetrachloride		5.46	mg/L	1	5	<0.10	109		80 - 120	20
Trichloroethene (TCE)		5.43	mg/L	1	5	<0.10	108		80 - 120	20
Tetrachloroethene (PCE)		5.28	mg/L	1	5	<0.10	105		80 - 120	20
Chlorobenzene		5.51	mg/L	1	5	<0.10	110		80 - 120	20
1,4-Dichlorobenzene		5.21	mg/L	1	5	<0.10	104		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.5	mg/Kg	1	50	109	80 - 120
Toluene-d8		53.5	mg/Kg	1	50	107	80 - 120
4-Bromofluorobenzene		53	mg/Kg	1	50	106	80 - 120

Sample: LCSD

QC Batch: QC05091

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.75	mg/L	1	5	<0.10	135	0	80 - 120	20
1,1-Dichloroethene		6.67	mg/L	1	5	<0.10	133	0	80 - 120	20
Methyl ethyl ketone		5.12	mg/L	1	5	<0.50	102	7	80 - 120	20
Chloroform		5.39	mg/L	1	5	<0.10	107	0	80 - 120	20
1,2-Dichloroethane (EDC)		5.44	mg/L	1	5	<0.10	108	0	80 - 120	20
Benzene		5.63	mg/L	1	5	<0.10	112	2	80 - 120	20
Carbon Tetrachloride		5.50	mg/L	1	5	<0.10	110	1	80 - 120	20
Trichloroethene (TCE)		5.53	mg/L	1	5	<0.10	110	2	80 - 120	20
Tetrachloroethene (PCE)		5.36	mg/L	1	5	<0.10	107	2	80 - 120	20
Chlorobenzene		5.58	mg/L	1	5	<0.10	111	1	80 - 120	20
1,4-Dichlorobenzene		5.17	mg/L	1	5	<0.10	103	1	80 - 120	20

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.5	mg/Kg	1	50	109	80 - 120
Toluene-d8		53.5	mg/Kg	1	50	107	80 - 120
4-Bromofluorobenzene		53.5	mg/Kg	1	50	107	80 - 120

Sample: LCS *QC Batch: QC05102*

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.2	mg/L	1	10	<0.10	92		75 - 125	20
TCLP Barium		19	mg/L	1	20	<0.10	95		75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95		75 - 125	20
TCLP Chromium		3.8	mg/L	1	4	<0.05	95		75 - 125	20
TCLP Lead		9.4	mg/L	1	10	<0.10	94		75 - 125	20
TCLP Selenium		8.1	mg/L	1	10	<0.10	81		75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90		75 - 125	20

Sample: LCSD QC Batch: QC05102

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.2	mg/L	1	10	<0.10	92	0	75 - 125	20
TCLP Barium		19	mg/L	1	20	<0.10	95	0	75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95	0	75 - 125	20
TCLP Chromium		3.8	mg/L	1	4	<0.05	95	0	75 - 125	20
TCLP Lead		9.3	mg/L	1	10	<0.10	93	1	75 - 125	20
TCLP Selenium		8.2	mg/L	1	10	<0.10	82	1	75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90	0	75 - 125	20

Sample: LCS QC Batch: QC05103

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.2	mg/L	1	10	<0.10	92		75 - 125	20
TCLP Barium		19	mg/L	1	20	<0.10	95		75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95		75 - 125	20
TCLP Chromium		3.8	mg/L	1	4	<0.05	95		75 - 125	20
TCLP Lead		9.4	mg/L	1	10	<0.10	94		75 - 125	20
TCLP Selenium		8.1	mg/L	1	10	<0.10	81		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Silver		1.8	mg/L	1	2	<0.05	90		75 - 125	20

Sample: LCSD QC Batch: QC05103

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.2	mg/L	1	10	<0.10	92	0	75 - 125	20
TCLP Barium		19	mg/L	1	20	<0.10	95	0	75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95	0	75 - 125	20
TCLP Chromium		3.8	mg/L	1	4	<0.05	95	0	75 - 125	20
TCLP Lead		9.3	mg/L	1	10	<0.10	93	1	75 - 125	20
TCLP Selenium		8.2	mg/L	1	10	<0.10	82	1	75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90	0	75 - 125	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC04935

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.55	mg/L	1	5	<0.10	111		80 - 120	20
1,1-Dichloroethene		6.33	mg/L	1	5	<0.10	126		80 - 120	20
Methyl ethyl ketone		5.37	mg/L	1	5	<0.50	107		80 - 120	20
Chloroform		5.20	mg/L	1	5	<0.10	104		80 - 120	20
1,2-Dichloroethane (EDC)		5.14	mg/L	1	5	<0.10	102		80 - 120	20
Benzene		5.26	mg/L	1	5	<0.10	105		80 - 120	20
Carbon Tetrachloride		5.44	mg/L	1	5	<0.10	108		80 - 120	20
Trichloroethene (TCE)		5.36	mg/L	1	5	<0.10	107		80 - 120	20
Tetrachloroethene (PCE)		5.30	mg/L	1	5	<0.10	106		80 - 120	20
Chlorobenzene		5.50	mg/L	1	5	<0.10	110		80 - 120	20
1,4-Dichlorobenzene		5.10	mg/L	1	5	<0.10	102		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51	mg/L	1	50	102	80 - 120
Toluene-d8		50	mg/L	1	50	100	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: MSD

QC Batch: QC04935

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.59	mg/L	1	5	<0.10	111	1	80 - 120	20
1,1-Dichloroethene		6.43	mg/L	1	5	<0.10	128	2	80 - 120	20
Methyl ethyl ketone		5.70	mg/L	1	5	<0.50	114	6	80 - 120	20
Chloroform		5.30	mg/L	1	5	<0.10	106	2	80 - 120	20
1,2-Dichloroethane (EDC)		5.13	mg/L	1	5	<0.10	102	0	80 - 120	20
Benzene		5.28	mg/L	1	5	<0.10	105	0	80 - 120	20
Carbon Tetrachloride		5.40	mg/L	1	5	<0.10	108	1	80 - 120	20
Trichloroethene (TCE)		5.37	mg/L	1	5	<0.10	107	0	80 - 120	20
Tetrachloroethene (PCE)		5.55	mg/L	1	5	<0.10	111	5	80 - 120	20
Chlorobenzene		5.53	mg/L	1	5	<0.10	110	0	80 - 120	20
1,4-Dichlorobenzene		5.20	mg/L	1	5	<0.10	104	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51.5	mg/L	1	50	103	80 - 120
Toluene-d8		50.5	mg/L	1	50	101	80 - 120
4-Bromofluorobenzene		49.5	mg/L	1	50	99	80 - 120

Sample: MS

QC Batch: QC04937

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.93	mg/L	1	5	<0.10	118		80 - 120	20
1,1-Dichloroethene		6.12	mg/L	1	5	<0.10	122		80 - 120	20
Methyl ethyl ketone		5.46	mg/L	1	5	<0.50	109		80 - 120	20
Chloroform		5.29	mg/L	1	5	<0.10	105		80 - 120	20
1,2-Dichloroethane (EDC)		5.61	mg/L	1	5	<0.10	112		80 - 120	20
Benzene		5.06	mg/L	1	5	<0.10	101		80 - 120	20
Carbon Tetrachloride		5.48	mg/L	1	5	<0.10	109		80 - 120	20
Trichloroethene (TCE)		5.27	mg/L	1	5	<0.10	105		80 - 120	20
Tetrachloroethene (PCE)		5.04	mg/L	1	5	<0.10	100		80 - 120	20
Chlorobenzene		5.21	mg/L	1	5	<0.10	104		80 - 120	20
1,4-Dichlorobenzene		4.91	mg/L	1	5	<0.10	98		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		52.5	mg/L	1	50	105	80 - 120
Toluene-d8		51	mg/L	1	50	102	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: MSD

QC Batch: QC04937

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.07	mg/L	1	5	<0.10	121	2	80 - 120	20
1,1-Dichloroethene		6.13	mg/L	1	5	<0.10	122	0	80 - 120	20
Methyl ethyl ketone		5.27	mg/L	1	5	<0.50	105	4	80 - 120	20
Chloroform		5.35	mg/L	1	5	<0.10	107	1	80 - 120	20
1,2-Dichloroethane (EDC)		5.70	mg/L	1	5	<0.10	114	2	80 - 120	20
Benzene		5.09	mg/L	1	5	<0.10	101	0	80 - 120	20
Carbon Tetrachloride		5.47	mg/L	1	5	<0.10	109	0	80 - 120	20
Trichloroethene (TCE)		5.37	mg/L	1	5	<0.10	107	2	80 - 120	20
Tetrachloroethene (PCE)		5.00	mg/L	1	5	<0.10	100	1	80 - 120	20
Chlorobenzene		5.18	mg/L	1	5	<0.10	103	0	80 - 120	20
1,4-Dichlorobenzene		4.99	mg/L	1	5	<0.10	99	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		53	mg/L	1	50	106	80 - 120
Toluene-d8		51	mg/L	1	50	102	80 - 120
4-Bromofluorobenzene		50	mg/L	1	50	100	80 - 120

Sample: MS QC Batch: QC04984

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0520	mg/L	1	0.05	<0.010	104		80 - 120	20

Sample: MSD QC Batch: QC04984

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0524	mg/L	1	0.05	<0.010	104	1	80 - 120	20

Sample: MS QC Batch: QC04985

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0514	mg/L	1	0.05	<0.010	102		80 - 120	20

Sample: MSD QC Batch: QC04985

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0532	mg/L	1	0.05	<0.010	106	3	80 - 120	20

Sample: MS

QC Batch: QC05091

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.83	mg/L	1	5	<0.10	136		80 - 120	20
1,1-Dichloroethene		6.59	mg/L	1	5	<0.10	131		80 - 120	20
Methyl ethyl ketone		5.07	mg/L	1	5	<0.50	101		80 - 120	20
Chloroform		5.39	mg/L	1	5	<0.10	107		80 - 120	20
1,2-Dichloroethane (EDC)		5.49	mg/L	1	5	<0.10	109		80 - 120	20
Benzene		5.60	mg/L	1	5	<0.10	112		80 - 120	20
Carbon Tetrachloride		5.44	mg/L	1	5	<0.10	108		80 - 120	20
Trichloroethene (TCE)		5.50	mg/L	1	5	<0.10	110		80 - 120	20
Tetrachloroethene (PCE)		5.29	mg/L	1	5	<0.10	105		80 - 120	20
Chlorobenzene		5.61	mg/L	1	5	<0.10	112		80 - 120	20
1,4-Dichlorobenzene		5.16	mg/L	1	5	<0.10	103		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.5	mg/Kg	1	50	109	80 - 120
Toluene-d8		54.5	mg/Kg	1	50	109	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: MSD

QC Batch: QC05091

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		6.99	mg/L	1	5	<0.10	139	2	80 - 120	20
1,1-Dichloroethene		6.66	mg/L	1	5	<0.10	133	1	80 - 120	20
Methyl ethyl ketone		4.74	mg/L	1	5	<0.50	94	7	80 - 120	20
Chloroform		5.48	mg/L	1	5	<0.10	109	2	80 - 120	20
1,2-Dichloroethane (EDC)		5.58	mg/L	1	5	<0.10	111	2	80 - 120	20
Benzene		5.61	mg/L	1	5	<0.10	112	0	80 - 120	20
Carbon Tetrachloride		5.48	mg/L	1	5	<0.10	109	1	80 - 120	20
Trichloroethene (TCE)		5.53	mg/L	1	5	<0.10	110	0	80 - 120	20
Tetrachloroethene (PCE)		5.43	mg/L	1	5	<0.10	108	3	80 - 120	20
Chlorobenzene		5.71	mg/L	1	5	<0.10	114	2	80 - 120	20
1,4-Dichlorobenzene		5.13	mg/L	1	5	<0.10	102	0	80 - 120	20

Continued . . .

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		55	mg/Kg	1	50	110	80 - 120
Toluene-d8		53.5	mg/Kg	1	50	107	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: MS QC Batch: QC05102

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		8.8	mg/L	1	10	<0.10	88		75 - 125	20
TCLP Barium		18	mg/L	1	20	<0.10	90		75 - 125	20
TCLP Cadmium		1.8	mg/L	1	2	<0.02	90		75 - 125	20
TCLP Chromium		3.6	mg/L	1	4	<0.05	90		75 - 125	20
TCLP Lead		8.7	mg/L	1	10	<0.10	87		75 - 125	20
TCLP Selenium		7.9	mg/L	1	10	<0.10	79		75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90		75 - 125	20

Sample: MSD QC Batch: QC05102

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		8.9	mg/L	1	10	<0.10	89	1	75 - 125	20
TCLP Barium		18	mg/L	1	20	<0.10	90	0	75 - 125	20
TCLP Cadmium		1.8	mg/L	1	2	<0.02	90	0	75 - 125	20
TCLP Chromium		3.6	mg/L	1	4	<0.05	90	0	75 - 125	20
TCLP Lead		8.7	mg/L	1	10	<0.10	87	0	75 - 125	20
TCLP Selenium		7.9	mg/L	1	10	<0.10	79	0	75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90	0	75 - 125	20

Sample: MS QC Batch: QC05103

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		8.9	mg/L	1	10	<0.10	89		75 - 125	20
TCLP Barium		20	mg/L	1	20	1.3	93		75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95		75 - 125	20
TCLP Chromium		3.8	mg/L	1	4	<0.05	95		75 - 125	20
TCLP Lead		9.2	mg/L	1	10	<0.10	92		75 - 125	20
TCLP Selenium		7.6	mg/L	1	10	<0.10	76		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Silver		1.8	mg/L	1	2	<0.05	90		75 - 125	20

Sample: MSD QC Batch: QC05103

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		8.9	mg/L	1	10	<0.10	89	0	75 - 125	20
TCLP Barium		20	mg/L	1	20	1.3	93	0	75 - 125	20
TCLP Cadmium		1.9	mg/L	1	2	<0.02	95	0	75 - 125	20
TCLP Chromium		3.7	mg/L	1	4	<0.05	92	3	75 - 125	20
TCLP Lead		9.1	mg/L	1	10	<0.10	91	1	75 - 125	20
TCLP Selenium		7.6	mg/L	1	10	<0.10	76	0	75 - 125	20
TCLP Silver		1.8	mg/L	1	2	<0.05	90	0	75 - 125	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04919

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	58.84	98	0 - 92	9/14/00
1,4-Dichlorobenzene		mg/L	60	59.43	99	39 - 87	9/14/00
o-Cresol		mg/L	60	63.08	105	41 - 92	9/14/00
m,p-Cresol		mg/L	60	63.82	106	7 - 127	9/14/00
Hexachloroethane		mg/L	60	61.53	102	35 - 85	9/14/00
Nitrobenzene		mg/L	60	61.41	102	43 - 108	9/14/00
Hexachlorobutadiene		mg/L	60	62.04	103	38 - 89	9/14/00
2,4,6-Trichlorophenol		mg/L	60	61.89	103	47 - 107	9/14/00
2,4,5-Trichlorophenol		mg/L	60	65.69	109	49 - 105	9/14/00
2,4-Dinitrotoluene		mg/L	60	62.29	103	49 - 105	9/14/00
2,4-D		mg/L	60	58.62	97	0 - 127	9/14/00
Hexachlorobenzene		mg/L	60	62.16	103	47 - 122	9/14/00
2,4,5-TP		mg/L	60	61.73	102	0 - 130	9/14/00
Pentachlorophenol		mg/L	60	62.16	103	33 - 99	9/14/00
2-Fluorophenol		mg/L	60	61.73	102	20 - 67	9/14/00
Phenol-d5		mg/L	60	62.14	103	7 - 55	9/14/00
Nitrobenzene-d5		mg/L	60	61.80	103	33 - 116	9/14/00
2-Fluorobiphenyl		mg/L	60	60.75	101	47 - 107	9/14/00
2,4,6-Tribromophenol		mg/L	60	62.59	104	47 - 113	9/14/00
Terphenyl-d14		mg/L	60	60.20	100	47 - 124	9/14/00

Sample: CCV (1) QC Batch: QC04920

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	59.89	99	0 - 92	9/14/00
1,4-Dichlorobenzene		mg/L	60	58.96	98	39 - 87	9/14/00
o-Cresol		mg/L	60	63.07	105	41 - 92	9/14/00
m,p-Cresol		mg/L	60	65.18	108	7 - 127	9/14/00
Hexachloroethane		mg/L	60	62.19	103	35 - 85	9/14/00
Nitrobenzene		mg/L	60	60.71	101	43 - 108	9/14/00
Hexachlorobutadiene		mg/L	60	61.59	102	38 - 89	9/14/00
2,4,6-Trichlorophenol		mg/L	60	63.89	106	47 - 107	9/14/00
2,4,5-Trichlorophenol		mg/L	60	66.14	110	49 - 105	9/14/00
2,4-Dinitrotoluene		mg/L	60	68.72	114	49 - 105	9/14/00
2,4-D		mg/L	60	60.49	100	0 - 127	9/14/00
Hexachlorobenzene		mg/L	60	63.06	105	47 - 122	9/14/00
2,4,5-TP		mg/L	60	65.12	108	0 - 130	9/14/00
Pentachlorophenol		mg/L	60	66.26	110	33 - 99	9/14/00
2-Fluorophenol		mg/L	60	61.31	102	20 - 67	9/14/00
Phenol-d5		mg/L	60	62.80	104	7 - 55	9/14/00
Nitrobenzene-d5		mg/L	60	61.57	102	33 - 116	9/14/00
2-Fluorobiphenyl		mg/L	60	58.33	97	47 - 107	9/14/00
2,4,6-Tribromophenol		mg/L	60	71.21	118	47 - 113	9/14/00
Terphenyl-d14		mg/L	60	71.72	119	47 - 124	9/14/00

Sample: CCV (1) QC Batch: QC04935

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	116	116	80 - 120	9/12/00
1,1-Dichloroethene		mg/L	100	108	108	80 - 120	9/12/00
Methyl ethyl ketone		mg/L	100	84	84	80 - 120	9/12/00
Chloroform		mg/L	100	94	94	80 - 120	9/12/00
1,2-Dichloroethane (EDC)		mg/L	100	90	90	80 - 120	9/12/00
Benzene		mg/L	100	98	98	80 - 120	9/12/00
Carbon Tetrachloride		mg/L	100	91	91	80 - 120	9/12/00
Trichloroethene (TCE)		mg/L	100	94	94	80 - 120	9/12/00
Tetrachloroethene (PCE)		mg/L	100	101	101	80 - 120	9/12/00
Chlorobenzene		mg/L	100	105	105	80 - 120	9/12/00
1,4-Dichlorobenzene		mg/L	100	95	95	80 - 120	9/12/00
Dibromofluoromethane		mg/L	50	51	102	80 - 120	9/12/00
Toluene-d8		mg/L	50	48.5	97	80 - 120	9/12/00
4-Bromofluorobenzene		mg/L	50	49.5	99	80 - 120	9/12/00

Sample: CCV (1) QC Batch: QC04937

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	120	120	80 - 120	9/16/00
1,1-Dichloroethene		mg/L	100	111	111	80 - 120	9/16/00
Methyl ethyl ketone		mg/L	100	91	91	80 - 120	9/16/00
Chloroform		mg/L	100	101	101	80 - 120	9/16/00
1,2-Dichloroethane (EDC)		mg/L	100	100	100	80 - 120	9/16/00
Benzene		mg/L	100	101	101	80 - 120	9/16/00
Carbon Tetrachloride		mg/L	100	96	96	80 - 120	9/16/00
Trichloroethene (TCE)		mg/L	100	97	97	80 - 120	9/16/00
Tetrachloroethene (PCE)		mg/L	100	99	99	80 - 120	9/16/00
Chlorobenzene		mg/L	100	104	104	80 - 120	9/16/00
1,4-Dichlorobenzene		mg/L	100	97	97	80 - 120	9/16/00
Dibromofluoromethane		mg/L	50	50	100	80 - 120	9/16/00
Toluene-d8		mg/L	50	49	98	80 - 120	9/16/00
4-Bromofluorobenzene		mg/L	50	49.5	99	80 - 120	9/16/00

Sample: CCV (1) QC Batch: QC04984

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00502	100	80 - 120	9/15/00

Sample: CCV (1) QC Batch: QC04985

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00498	99	80 - 120	9/15/00

Sample: CCV (1) QC Batch: QC05091

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	115	115	80 - 120	9/21/00
1,1-Dichloroethene		mg/L	100	117	117	80 - 120	9/21/00
Methyl ethyl ketone		mg/L	100	119	119	80 - 120	9/21/00
Chloroform		mg/L	100	100	100	80 - 120	9/21/00
1,2-Dichloroethane (EDC)		mg/L	100	105	105	80 - 120	9/21/00
Benzene		mg/L	100	104	104	80 - 120	9/21/00
Carbon Tetrachloride		mg/L	100	96	96	80 - 120	9/21/00
Trichloroethene (TCE)		mg/L	100	99	99	80 - 120	9/21/00
Tetrachloroethene (PCE)		mg/L	100	99	99	80 - 120	9/21/00
Chlorobenzene		mg/L	100	105	105	80 - 120	9/21/00

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,4-Dichlorobenzene		mg/L	100	98	98	80 - 120	9/21/00
Dibromofluoromethane		mg/L	50	53.5	107	80 - 120	9/21/00
Toluene-d8		mg/L	50	52	104	80 - 120	9/21/00
4-Bromofluorobenzene		mg/L	50	54	108	80 - 120	9/21/00

Sample: CCV (1) QC Batch: QC05102

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.48	99	75 - 125	9/15/00
TCLP Barium		mg/L	5	4.91	98	75 - 125	9/15/00
TCLP Cadmium		mg/L	0.50	0.50	100	75 - 125	9/15/00
TCLP Chromium		mg/L	1	0.97	97	75 - 125	9/15/00
TCLP Lead		mg/L	2.50	2.42	96	75 - 125	9/15/00
TCLP Selenium		mg/L	2.50	2.53	101	75 - 125	9/15/00
TCLP Silver		mg/L	0.50	0.48	96	75 - 125	9/15/00

Sample: ICV (1) QC Batch: QC05102

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.48	99	75 - 125	9/15/00
TCLP Barium		mg/L	5	4.88	97	75 - 125	9/15/00
TCLP Cadmium		mg/L	0.50	0.49	98	75 - 125	9/15/00
TCLP Chromium		mg/L	1	0.97	97	75 - 125	9/15/00
TCLP Lead		mg/L	2.50	2.41	96	75 - 125	9/15/00
TCLP Selenium		mg/L	2.50	2.55	102	75 - 125	9/15/00
TCLP Silver		mg/L	0.50	0.48	96	75 - 125	9/15/00

Sample: CCV (1) QC Batch: QC05103

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.48	99	75 - 125	9/15/00
TCLP Barium		mg/L	5	4.91	98	75 - 125	9/15/00
TCLP Cadmium		mg/L	0.50	0.50	100	75 - 125	9/15/00
TCLP Chromium		mg/L	1	0.97	97	75 - 125	9/15/00
TCLP Lead		mg/L	2.50	2.42	96	75 - 125	9/15/00
TCLP Selenium		mg/L	2.50	2.53	101	75 - 125	9/15/00
TCLP Silver		mg/L	0.50	0.48	96	75 - 125	9/15/00

Sample: ICV (1)

QC Batch: QC05103

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.50	100	75 - 125	9/15/00
TCLP Barium		mg/L	5	4.92	98	75 - 125	9/15/00
TCLP Cadmium		mg/L	0.50	0.50	100	75 - 125	9/15/00
TCLP Chromium		mg/L	1	0.97	97	75 - 125	9/15/00
TCLP Lead		mg/L	2.50	2.43	97	75 - 125	9/15/00
TCLP Selenium		mg/L	2.50	2.56	102	75 - 125	9/15/00
TCLP Silver		mg/L	0.50	0.48	96	75 - 125	9/15/00

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
HIGHLANDER ENVIRONMENTAL SERVICES
Attention: Ike Tavarez
1910 N. Big Spring St.
Midland, Texas 79705

September 26, 2000
Receiving Date: 09/09/00
Sample Type: Soil
Project No: 786
Project Location: Eunice Plant

Sampling Date: 09/07/00
Sample Condition: I & C
Sample Received by: RC
Project Name: Texaco South Eunice Gas Plant

TA#	Field Code	TOTAL As (mg/kg)	TOTAL Ba (mg/kg)	TOTAL Cd (mg/kg)	TOTAL Cr (mg/kg)	TOTAL Pb (mg/kg)	TOTAL Se (mg/kg)	TOTAL Ag (mg/kg)	TOTAL Hg (mg/kg)
T153213	C-13 (Composite)	<5.0	136	<2.0	13.0	15	<5.0	<2.0	0.61
ICV		2.54	5.14	0.51	1.02	2.54	2.55	0.50	0.00527
CCV		2.61	5.38	0.54	1.06	2.65	2.58	0.52	0.00591
Reporting Limit		5.0	5.0	2.0	5.0	5.0	5.0	2.0	0.19
RPD		2	5	0	3	8	*	*	4
% Extraction Accuracy		66	83	80	75	127	*	*	106
% Instrument Accuracy		104	108	108	106	106	103	104	105
Prep Date:		09/12/00	09/12/00	09/12/00	09/12/00	09/12/00	09/12/00	09/12/00	09/12/00
Analysis Date:		09/13/00	09/13/00	09/13/00	09/13/00	09/13/00	09/13/00	09/13/00	09/12/00

*** MS recovery poor due to matrix diffifultiles. Use LCS for EA/RPD calculations.**

METHODS: EPA SW-846 6010B, 3050B, 7471A
CHEMIST: TOTAL METALS: RR Hg: MS
TOTAL METAL SPIKE: Cd, Ag 20 mg/kg; Cr 40 mg/kg; As, Pb, Se 100 mg/kg; Ba 200 mg/kg; Hg SPIKE: 2.5 mg/kg
TOTAL METAL CV: Cd, Ag 0.50 mg/L; Cr 1.0 mg/L; As, Pb, Se 2.5 mg/L; Ba 5.0 mg/L; Hg CV: 0.005 mg

Director, Dr. Blair Leftwich

9-26-00
Date

153201-1

A0009708

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: 1 OF: 2

CLIENT NAME: TEXACO E & P. INC

SITE MANAGER: IKE Tavarez

PROJECT NO.: 786

PROJECT NAME: TEXACO / DYNEGY EUNICE South. Plant, Lea County, NM.

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/608	TPH 418.1 8015 MOD. TX1005	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. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
153201	9/7/00		S	1		C-1 (Composite)	1				✓							X	X	X	X								
202			S	1		C-2 (Composite)	1				✓							X	X	X	X								
203			S	1		C-3 (Composite)	1				✓							X	X	X	X								
204			S	1		C-4 (Composite)	1				✓							X	X	X	X								
205			S	1		C-5 (Composite)	1				✓							X	X	X	X								
206			S	1		C-6 (Composite)	1				✓							X	X	X	X								
207			S	1		C-7 (Composite)	1				✓							X	X	X	X								
208			S	1		C-8 (Composite)	1				✓							X	X	X	X								
209			S	1		C-9 (Composite)	1				✓							X	X	X	X								
210			S	1		C-10 (Composite)	1				✓							X	X	X	X								

RELINQUISHED BY: (Signature) — Date: 9/8/00 Time: 10:00 AM — RECEIVED BY: (Signature) — Date: 9/8/00 Time: 10:00AM

SAMPLED BY: (Print & Sign) IKE Tavarez / Jim Cronkrite — Date: 9/7/00 Time:

RELINQUISHED BY: (Signature) — Date: 9/8/00 Time: 10:00PM — RECEIVED BY: (Signature) — Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS Greyhound HAND DELIVERED — AIRBILL # OTHER: 159389849 8

RELINQUISHED BY: (Signature) — Date: Time: — RECEIVED BY: (Signature) — Date: Time:

RECEIVING LABORATORY: Trace Co. — RECEIVED BY: (Signature)

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE: DATE: 9/9/00 TIME: 9:15 Am

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid (S-Soil) SL-Sludge O-Other

REMARKS: 9/26

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

10 Samples - HS only

A0000911O8

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: 2

CLIENT NAME: Texaco E&P Inc. SITE MANAGER: IKE Tavarez

PROJECT NO.: 786 PROJECT NAME: Texaco - Dynegy Eunice South. Plant, Lea Co NM.

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8020/602	MTBE 8020/602	TPH 418.1 8015 MOD. TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	PCB	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
153211	9/7/00		S	1		C-11 (Composite)	1				✓							X	X	X	X								
212	9/7/00		S	1		C-12 (Composite)	1				✓							X	X	X	X								
213	9/7/00		S	1		C-13 (Composite)	1				✓						X												

RELINQUISHED BY: (Signature) Date: 9/8/00 Time: 10:00 AM
RECEIVED BY: (Signature) Helen Shelton Date: 9/8/00 Time: 10:00 AM
SAMPLED BY: (Print & Sign) IKE Tavarez/Jim Garrett Date: Time:

RELINQUISHED BY: (Signature) Helen Shelton Date: 9/8/00 Time: 6:00 PM
RECEIVED BY: (Signature) Date: Time:
SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED AIRBILL # 139384949 8 OTHER: Greyhound

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace Lab.
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: 9/9/00 TIME: 9:15 AM

HIGHLANDER CONTACT PERSON: IKE Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SD-Solid S-Soil SL-Sludge O-Other

REMARKS:

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

2 samples – H C ok

APPENDIX E

LABORATORY TEST REPORT
PETTIGREW and ASSOCIATES
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

DEBRA P. HICKS, P.E./ L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

TO: Highlander Environmental Corp.
1910 N. Big Spring
Midland, TX 79705

MATERIAL: Red Clay

PROJECT: Texaco - S. Eunice Gas Plant

TEST METHOD: ASTM D 2922

DATE OF TEST: December 4, 2000

DEPTH: Finished Subgrade

TEST NO.	LOCATION	DRY DENSITY % Maximum	% MOISTURE	DEPTH
SG-1	N. Pit - 15' N. and 10' E. of the SW Corner	100.2	20.3	
SG-2	N. Pit - 65' E. and 35' N. of the SW Corner	101.6	19.0	
SG-3	N. Pit - 160' E. and 90' N. of the SW Corner	101.5	19.7	
SG-4	N. Pit - 45' W. and 80' E. of the NW Corner	98.3	21.6	
SG-5	N. Pit - 15' S. and 25' E. of the NW Corner	100.5	19.8	
SG-6	S. Pit - 15' S. and 15' E. of the NW Corner	104.0	16.5	
SG-7	S. Pit - 85' S. and 50' E. of the NW Corner	105.3	16.9	
SG-8	S. Pit - 10' N. and 60' E. of the SW Corner	101.9	17.2	
SG-9	S. Pit - 6' W. and 60' N. of the SE Corner	100.8	17.5	
SG-10	S. Pit - 40' S. and 15' W. of the NE Corner	103.1	15.9	

CONTROL DENSITY: 102.5
ASTM D 698

OPTIMUM MOISTURE: 20.8%

REQUIRED COMPACTION: 95%

LAB NO.: 0H 2840-2850

COPIES TO: Highlander Environmental

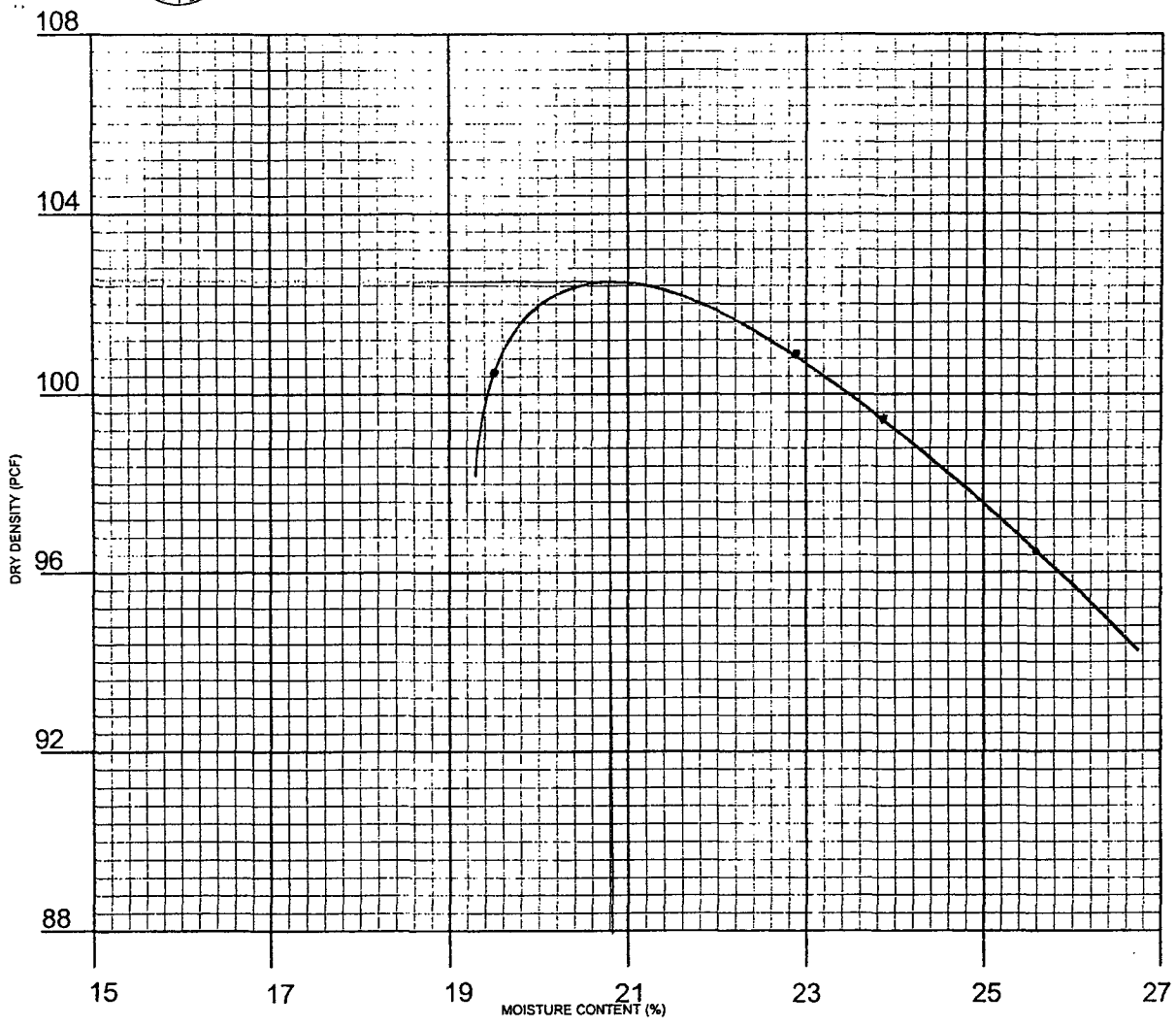
PETTIGREW and ASSOCIATES

BY: [signature] SRI

PERMEABILITY OF TRAISSIC CLAYS

BORING	DEPTH INTERVAL	ATTERBURG LIMITS			PERMEABILITY
		LL	PL	PI	(CM/SEC)
1	1-2'	51	25	26	1.4×10^{-6}
2	4-5'	38	16	22	5.6×10^{-8}
	7-7.5'	49	21	28	8.4×10^{-10}
3	0.5-1.5'	58	24	34	5.0×10^{-7}
4	7-8.5'	58	22	36	6.5×10^{-8}
5	2-3.5'	59	25	34	4.3×10^{-8}
6	1.5-2.0'	29	15	14	1.7×10^{-7}
	6-6.5	27	12	15	2.6×10^{-7}
7	4-5.5'	56	21	35	8.4×10^{-10}
8	2-2.5'	-	-	-	5.7×10^{-6}
	17'	-	-	-	1.7×10^{-7}
8A	3-4'	27	12	15	3.4×10^{-6}
9	1-2.5'	57	22	35	3.9×10^{-8}
10	2-2.5'	36	16	20	LESS THAN 10^{-8}
11	3.5 - 5.0'	40	20	20	1.9×10^{-7}
	14-15'	47	22	25	1.9×10^{-7}
12	6-7.5'	42	17	25	3.8×10^{-10}
13	1-2'	40	16	24	7.4×10^{-8}
14	11-12.5'	42	15	27	2.9×10^{-9}
6	0-5' (REMOLDED)	-	-	-	8.5×10^{-9}
11	3.5-5.0 (REMOLDED)	-	-	-	2.8×10^{-8}

PETTIGREW and ASSOCIATES
CONSULTING ENGINEERIS



CLIENT: Wallach Concrete PROJECT: General Information

SAMPLE LOCATION: Stockpile

SOIL DESCRIPTION: Red Clay

SOIL CLASSIFICATION: _____ TEST METHOD: ASTM D 698

ATTERBERG: LL __% PI ____ Delivered 9/8/00

DATE: September 11, 2000 LAB NO. 0H 2040-2041

DRY WEIGHT LB/CU. FT. 102.5 MOISTURE CONTENT % 20.8

Proctor

LOOSE UNIT WEIGHT = 80.04 LBS/FT^3

% MOISTURE = 1.2

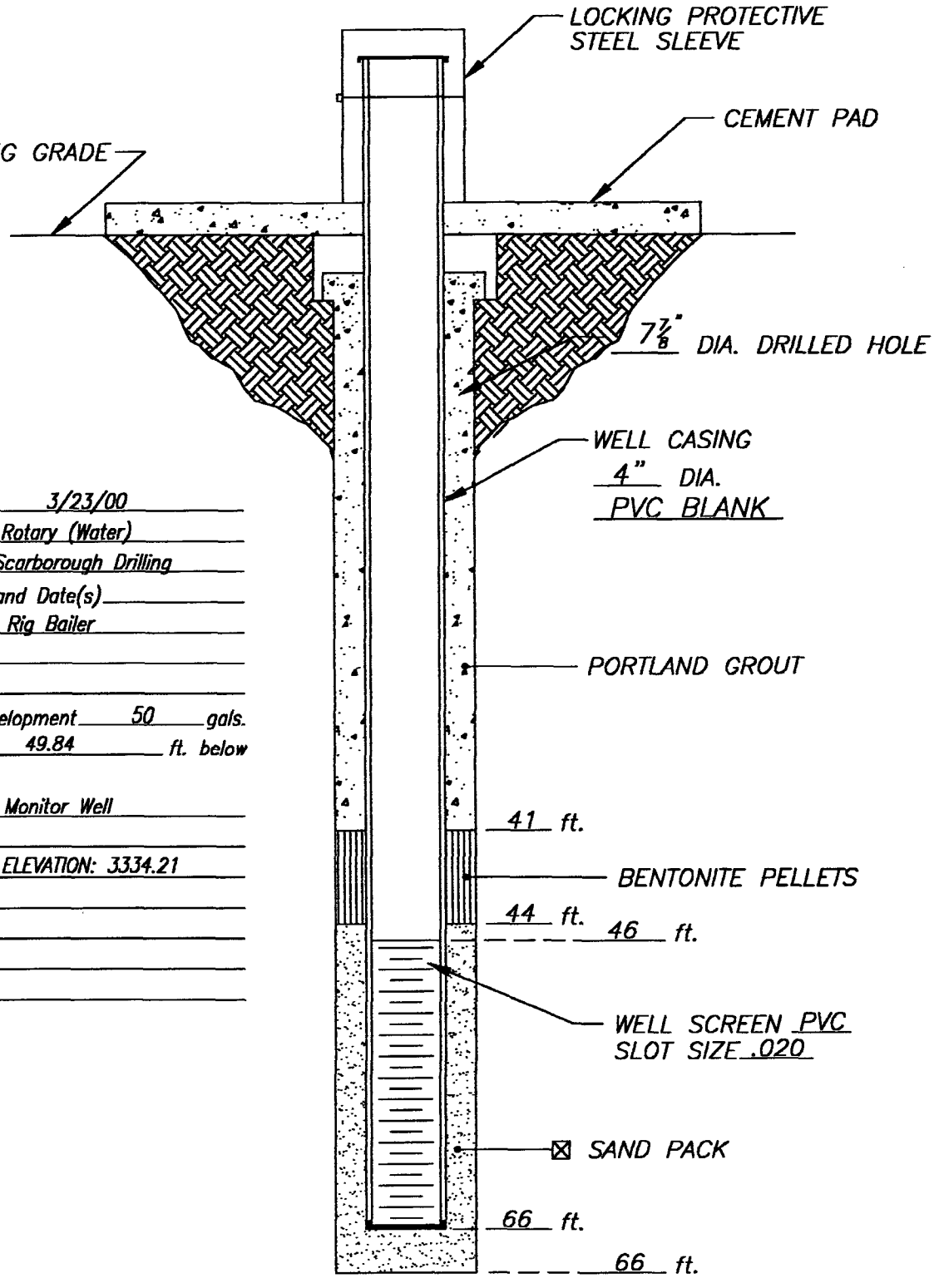
COPIES: Wallach

PETTIGREW and ASSOCIATES

BY: William Hicks P.E.

APPENDIX F

WELL CONSTRUCTION LOG



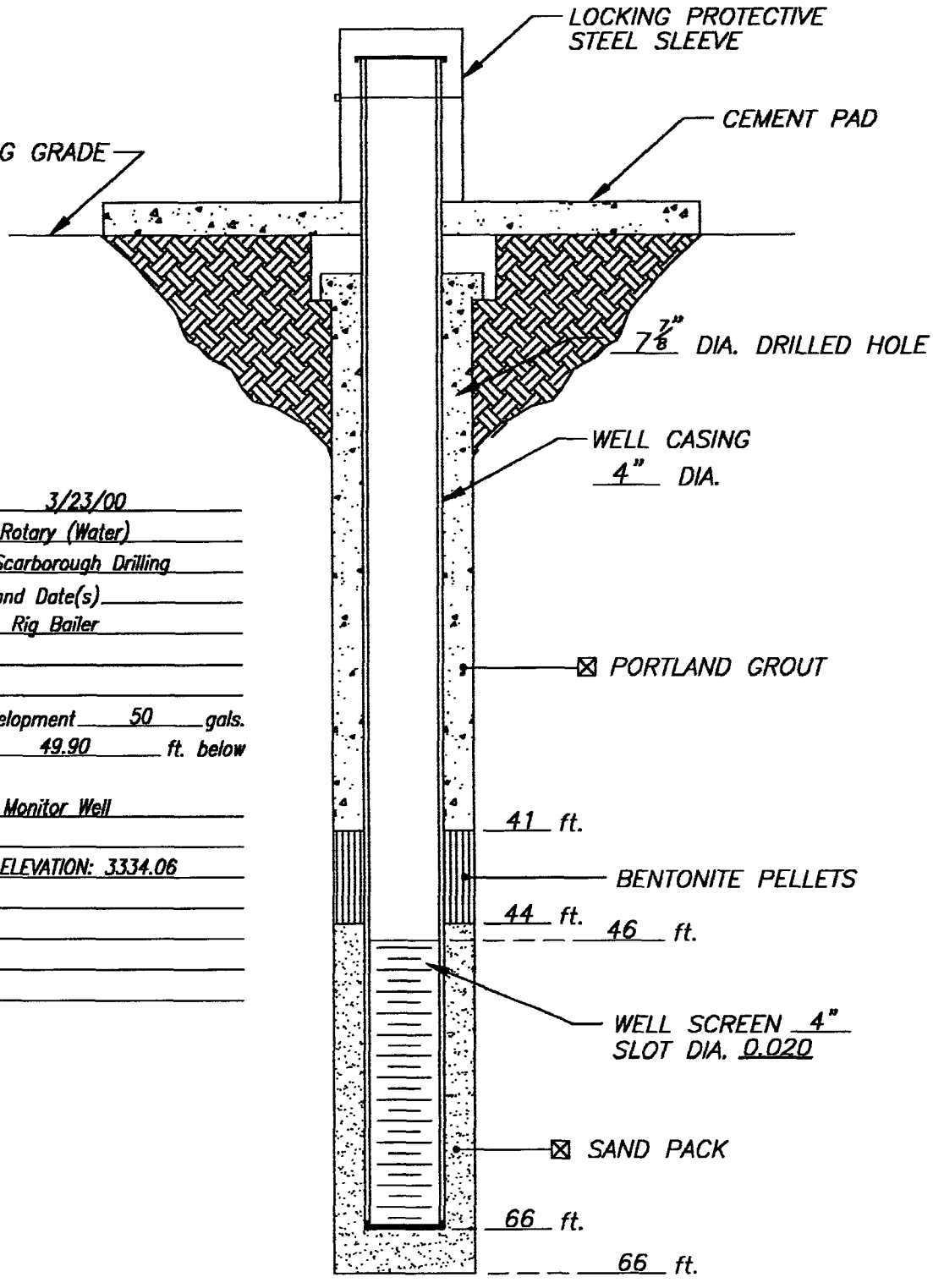
Installation Date(s) 3/23/00
Drilling Method Rotary (Water)
Drilling Contractor Scarborough Drilling
Development Technique(s) and Date(s)
3/24/00- Rig Bailer

Water Removed During Development 50 gals.
Static Depth to Water 49.84 ft. below Ground Level
Well Purpose Monitor Well

Remarks T.O.C. ELEVATION: 3334.21

DATE: 10/20/00 **Highlander Environmental**	CLIENT: *Texaco Exploration & Production, Inc.* PROJECT: *Eunice #1 (South) Gas Plant* LOCATION: *Lea County, New Mexico*	WELL NO. MW-19

WELL CONSTRUCTION LOG



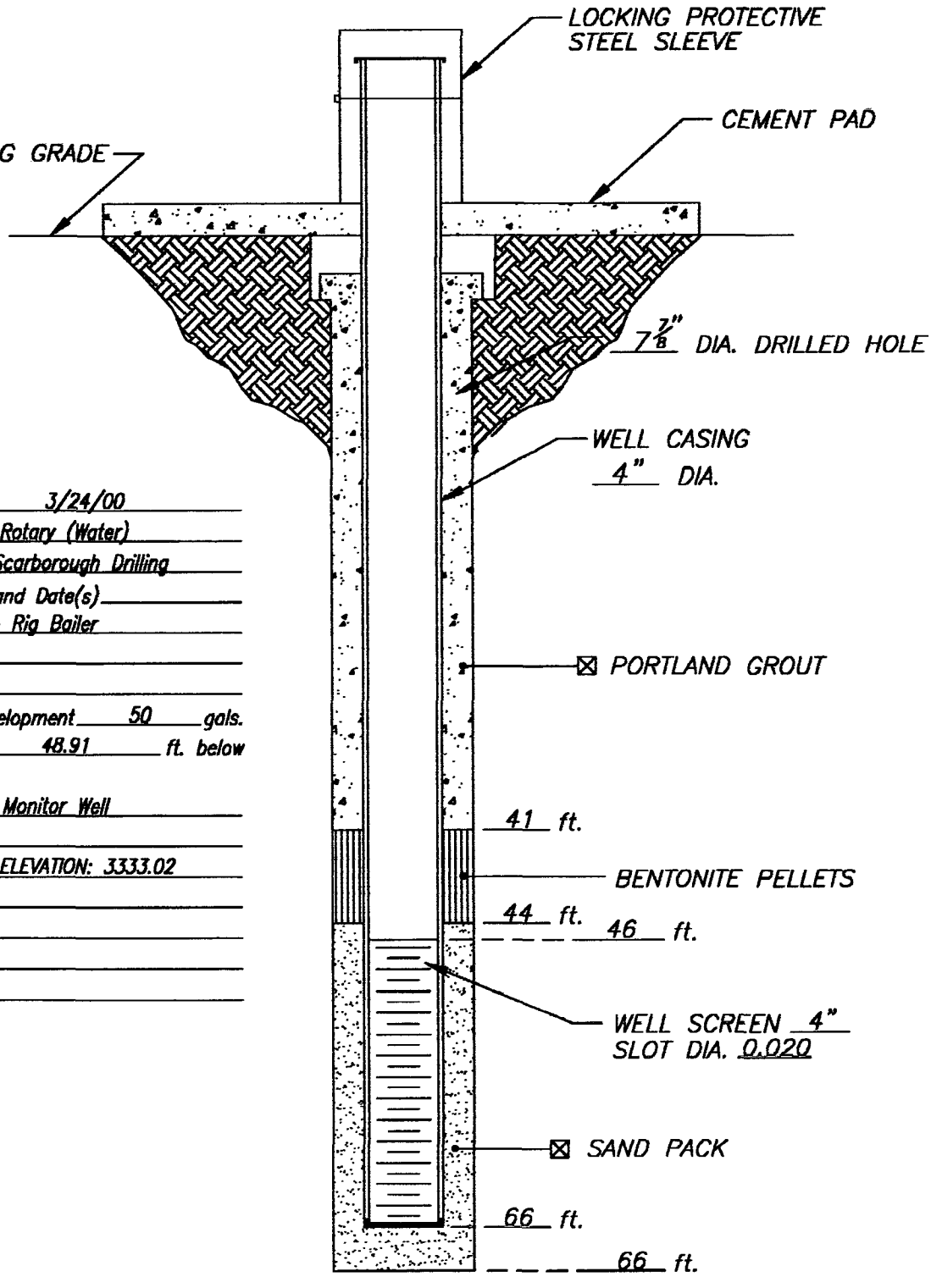
Installation Date(s) 3/23/00
Drilling Method Rotary (Water)
Drilling Contractor Scarborough Drilling
Development Technique(s) and Date(s)
3/24/00 - Rig Bailer

Water Removed During Development 50 gals.
Static Depth to Water 49.90 ft. below Ground Level
Well Purpose Monitor Well

Remarks T.O.C. ELEVATION: 3334.06

DATE: 10/20/00	CLIENT: Texaco Exploration & Production, Inc.	WELL NO.
Highlander Environmental	PROJECT: Eunice #1 (South) Gas Plant	MW-20
	LOCATION: Lea County, New Mexico	

WELL CONSTRUCTION LOG



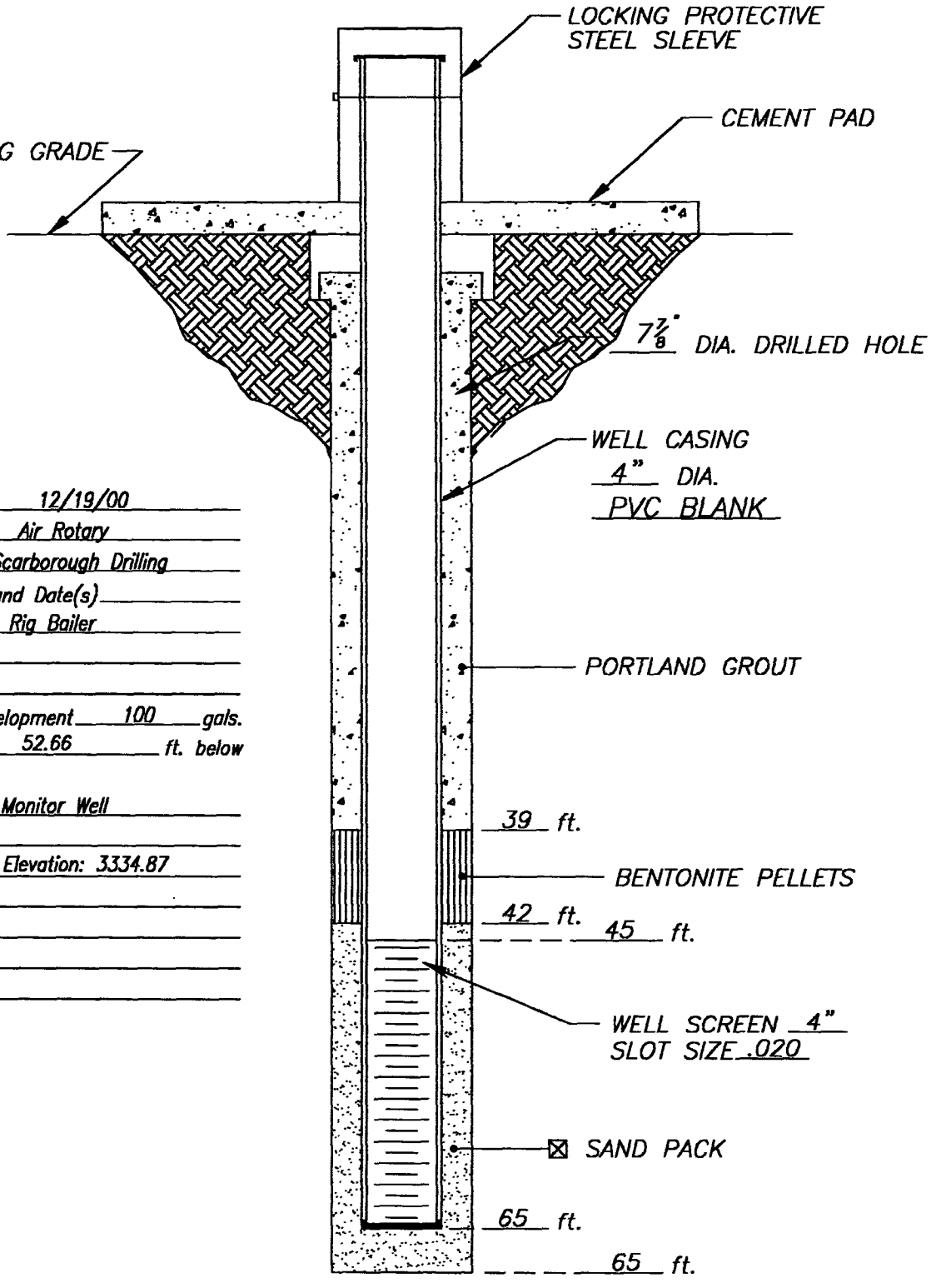
Installation Date(s) 3/24/00
Drilling Method Rotary (Water)
Drilling Contractor Scarborough Drilling
Development Technique(s) and Date(s)
3/24/00 – Rig Bailer

Water Removed During Development 50 gals.
Static Depth to Water 48.91 ft. below Ground Level
Well Purpose Monitor Well

Remarks T.O.C. ELEVATION: 3333.02

DATE: 10/20/00 **Highlander Environmental**	CLIENT: Texaco Exploration & Production, Inc. PROJECT: Eunice #1 (South) Gas Plant LOCATION: Lea County, New Mexico	WELL NO. MW-21

WELL CONSTRUCTION LOG



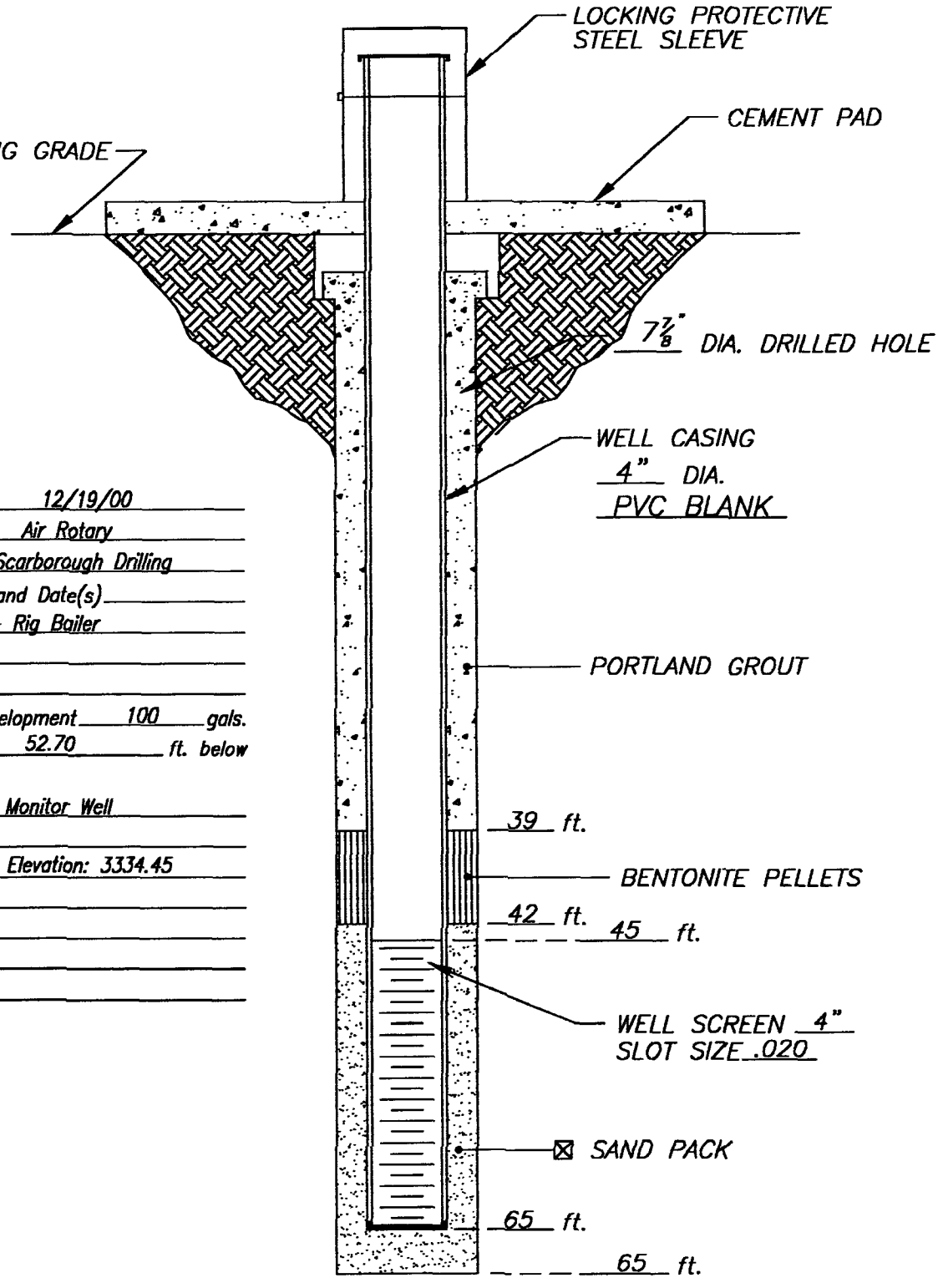
Installation Date(s) 12/19/00
Drilling Method Air Rotary
Drilling Contractor Scarborough Drilling
Development Technique(s) and Date(s)
12/20/20- Rig Bailer

Water Removed During Development 100 gals.
Static Depth to Water 52.66 ft. below Ground Level
Well Purpose Monitor Well

Remarks T.O.C. Elevation: 3334.87

DATE: 12/19/00 **Highlander Environmental**	CLIENT: *Texaco Exploration & Production, Inc.* PROJECT: *Eunice #1 (South) Gas Plant* LOCATION: *Lea County, New Mexico*	WELL NO. MW-22

WELL CONSTRUCTION LOG



Installation Date(s) 12/19/00
Drilling Method Air Rotary
Drilling Contractor Scarborough Drilling
Development Technique(s) and Date(s)
12/20/20- Rig Bailer

Water Removed During Development 100 gals.
Static Depth to Water 52.70 ft. below Ground Level
Well Purpose Monitor Well

Remarks T.O.C. Elevation: 3334.45

DATE: 12/19/00

Highlander Environmental

CLIENT: Texaco Exploration & Production, Inc.
PROJECT: Eunice #1 (South) Gas Plant
LOCATION: Lea County, New Mexico

WELL NO. MW-23

DRILLING LOG

Boring/Well: MW-19
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Location: Lea County, New Mexico
Total Depth: 66'
Date Installed: 3/23/00

DEPTH (Ft)	SAMPLE DESCRIPTION
0-2	Caliche, gray to dark gray, fill material
2-17	Caliche, gray to dark gray, indurated, hard below 3', slight hydrocarbon odor
17-23	Clayey sand, gray, very fine grained quartz sand, loose, hydrocarbon odor
23-58	Sandstone, gray to dark gray, very fine to fine grained quartz sand, poorly sorted, moderately well cemented, interbedded with thin beds of very well cemented sandstone at 30', 45' and 50'
58-66	Sand, brown to dark brown, very fine grained quartz sand, hydrocarbon odor
	TD: 66'

DRILLING LOG

Boring/Well: MW-20
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Location: Lea County, New Mexico
Total Depth: 66'
Date Installed: 3/23/00

DEPTH (Ft)	SAMPLE DESCRIPTION
0-3	Caliche, gray to dark gray, fill material
3-23	Caliche, pink, indurated, hard, interbedded with sand
23-43	Sandstone, light reddish brown, very fine to medium grained quartz sand, reddish brown below 25', well cemented, moderately well sorted
43-66	Sand, reddish brown, very fine to fine grained quartz sand, moderately well sorted, interbedded with thin layers of well cemented sandstone
	TD: 66'

DRILLING LOG

Boring/Well: MW-21
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Location: Lea County, New Mexico
Total Depth: 66'
Date Installed: 3/24/00

DEPTH (Ft)	SAMPLE DESCRIPTION
0-2	Silty sand, pink to brown, very fine grained quartz sand, mixed with caliche, fill material
2-13	Caliche, pink, indurated and interbedded with very fine grained quartz sand and sandstone, moderately hard
13-58	Sandstone, pink to reddish yellow, very fine to medium grained quartz sand, moderately sorted, round, well cemented
58-66	Sand, reddish yellow, very fine to fine grained quartz sand, unconsolidated to very friable, silty, poorly sorted
	TD: 66'

DRILLING LOG

Boring/Well: MW-22
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Location: Lea County, New Mexico
Total Depth: 65'
Date Installed: 12/19/00

DEPTH (Ft)	SAMPLE DESCRIPTION
0-20	White caliche, dense layer, trace of silty sand
20-40	Caliche, tan and white, indurated and interbedded with very fine grained quartz sand and sandstone, dense
40-50	Fine grain sand, tan, very fine to medium grained quartz sand, well sorted sand, interbedded With cented sandstone, dense layers of samd stone.
50-65	Sand, tan, very fine to fine grained quartz sand, unconsolidated to very friable, silty, poorly sorted, streaks of cemented sandstone, dense layers
	TD: 65'

DRILLING LOG

Boring/Well: MW-23
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Location: Lea County, New Mexico
Total Depth: 65'
Date Installed: 12/19/00

DEPTH (Ft)	SAMPLE DESCRIPTION
0-20	White caliche, dense layer, trace of silty sand
20-40	Caliche, tan and white, indurated and interbedded with very fine grained quartz sand and sandstone, dense
40-50	Fine grain sand, tan, very fine to medium grained quartz sand, well sorted sand, interbedded With cented sandstone, dense layers of samd stone.
50-65	Sand, tan, very fine to fine grained quartz sand, unconsolidated to very friable, silty, poorly sorted, streaks of cemented sandstone, dense layers
	TD: 65'

SAMPLE LOG

Boring/Well: BH-1
Site Location: Texaco - Eunice # 1 (South) Gas Plant
Borehole Location: Drain Sump (Concrete Sump)
Location: Lea County, New Mexico
Total Depth: 51'
Date Installed: 9/14/00

DEPTH (Ft)	OVM (ppm)	SAMPLE DESCRIPTION
0-5	-	Caliche and silty sand, silty sand , yellowish brown to brown, fine grained from 0 to 2 feet, Caliche, very pale brown , dense from 3 to 5 feet, black and gray staining from 0-3'
5-6	427	Caliche, very pale brown, dense from 3 to 5 feet, trace of fine grain sand, some gray and black staining
10-11	1,164	Caliche, very pale brown, dense, trace of fine grain sand and some gray and black staining
15-16	963	Caliche, very pale brown, dense, some friable, trace of fine grain sand and some gray staining
20-21	700	Caliche, very pale brown, dense, trace of fine grain sand and some gray and black staining
25-26	344	Tan, fine grained quartz, poorly sorted, moderately well cemented, sandstone layers, dense, yellowish, tan,
30-31	615	Tan, fine grained quartz, poorly sorted, moderately well cemented, sandstone layers, dense, yellowish, tan,
40-41	1,150	Tan, fine grained quartz, poorly sorted, moderately well cemented, sandstone layers, dense, yellowish, tan,
45-46	759	Tan, fine grained quartz, poorly sorted, moderately well cemented, sandstone layers, dense, yellowish, tan, becoming damp
50-51	450	Tan, fine grained quartz, poorly sorted, moderately well cemented, sandstone layers, dense, yellowish, tan, damp
		TD-51'

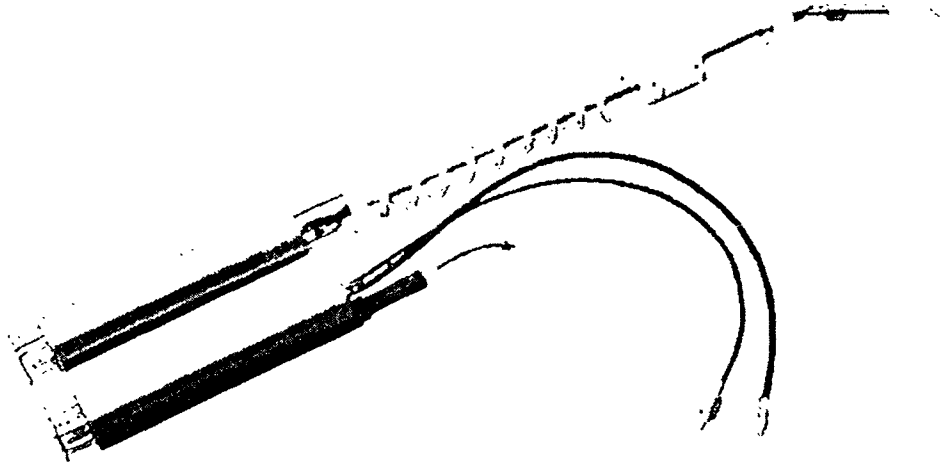
APPENDIX G

FERRET™

IN WELL SEPARATOR

4" High Capacity Ferret Separator Pump

INSTALLATION & OPERATION MANUAL



QED Environmental Systems, Inc.

P.O. Box 3726, Ann Arbor, Michigan 48106 734-995-2547 800-624-2026 Fax: 734-995-1170

E-Mail: info@qedenv.com Website: http://www.qedenv.com

P/N 95158 REV. 1-6-99

What this manual covers

Welcome to the Operations and Maintenance manual for the 4" High flow Rate Ferret Hydrocarbon recovery pumps by QED. Ferret recovery pumps feature a patented system for delivering water free hydrocarbons from contaminated groundwater wells to the surface. (Insert text)

This manual covers two high flow rate Ferrets designed for 4" and larger recovery wells:

The fixed inlet HIWS42 Ferret can recover up to 300 gallons of product per day. Product with kinematic viscosities as high as 1000 centistokes (at 55°F) can be pumped by the HIWS42 (fluids with viscosities near the pump's maximum will lower pumping rate). The HIWS42 must be continuously positioned with the inlet in the product to enable recovery.

The floating inlet HIWSFI12 Ferret can recover up to 275 gallons of product per day. Product with kinematic viscosities up to 350 centistokes (at 55°F) can be pumped by the HIWSFI12 (fluids with viscosities near the pump's maximum will lower pumping rate). The HIWSFI12 features a floating inlet that moves across a 12" range to automatically adjust for changes in the well static water level.

Both Ferret models use a pneumatic pump requiring a surface mounted pneumatic valve timer. QED recommends one of two options for this control: the 110V. AC powered MPS360 or the solar powered C100. This manual covers Ferret use with both devices.

How to read the manual

This manual will help you install and use your new Ferret pumping system. Please read the *Safety Information section* first. A *Quick Start guide* offers easy installation and start-up instructions that cover most normal situations. An *Installation Section* covers several different ways of configuring the pumps and controllers. An *Operation Section* details the controls that be applied to vary system performance. *Troubleshooting* and *Service Sections* cover basic things to look at if your system is not working and gives you information on how to reach QED should you require more detailed service information. At the back of the manual is a *Technical Information Section* that contains specification sheets and other background technical information.

Safety Information ..... **Page 1**

Quick Start ..... **Page 2**

Installation:

Installing the Pump ..... **Pages 3 &4**

Installing the Controller ..... **Page 5**

Operating the System ..... **Page 6**

Single Pump Installation ..... **Page 7**

Multiple Pump Installation ..... **Page 8**

Operation ..... **Page 9**

Troubleshooting ..... **Page 10**

Troubleshooting Chart ..... **Page 11**

Field Repair Procedures ..... **Pages 12-16**

Service ..... **Page 17**

Warranty ..... **Page 18**

Technical Information: ..... **Page 19**

MPS360 Controller ..... **Page 20**

C100 Controller ..... **Page 21**

HIWS42 Ferret ..... **Page 22**

HIWSFI12 Ferret ..... **Page 23**

Float Screen Kit Installation ..... **Page 24**

General Warnings

Ferret pumping devices are designed to pump floating hydrocarbons from groundwater recovery wells. The recovered product is frequently flammable and vapors may be explosive if exposed to heat, flame or sparks. ***When the Ferret pneumatic pumping system is used care should be taken to ensure that any venting of pump drive air, potentially mixed with explosive vapors within the pump, is located in a well ventilated area away from sources of open flame, sparks and extreme heat. As in all situations – failure to take adequate precautions may result in catastrophic injury or death.*** Protection for eyes, hands and person should be worn when working with the Ferret to avoid injury from contact with hazardous fluids. Tubing used with the Ferret system should be routed in a manner that prevents damage due to chafing, cutting or crushing.

Do not apply compressed drive air to the Ferret system unless all safety precautions are followed.

MPS360 Controller Warnings

The MPS360 controller (see Fig. 1) is a 110V-AC-powered timer and valve that is not rated for use in explosive environments or in situations where the device might be exposed to rain or water spray. The MPS360 should be mounted at least 3 feet above the ground and at least 25 feet horizontally from sources of combustible vapors and liquids.

C100 Controller Warnings

The C100 controller (see Fig. 2) is a solar powered timer and valve that has an onboard battery pack for operation during the night and on days with marginal sunlight. The C100 is CSA Approved intrinsically safe for Class 1, Division 1, Group C and D use. The C100 may be mounted at the well head. The General Warning for venting of pump drive air needs to be followed with the C100 as it will vent potentially explosive pump drive air during operation (venting at, or near the C100 is not a problem). The C100 is also NEMA4 rated for use in environments or in situations where the device might be exposed to rain or water spray. The C100 includes an optional AC adapter to allow use inside where there is insufficient light available for charging. The AC adapter is not approved for intrinsically safe use. Use of the AC adapter will require you to follow the MPS 360 warnings.

Figure 1. MPS360 Controller

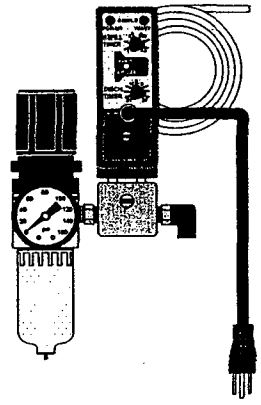
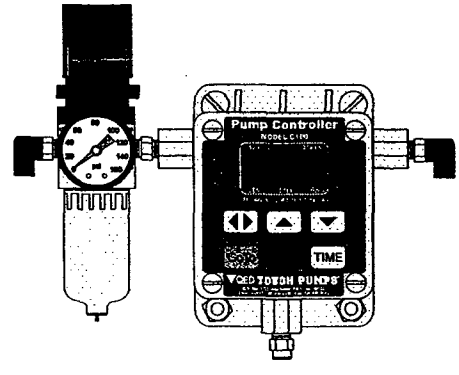


Figure 2. C100 Controller



Operating Principle

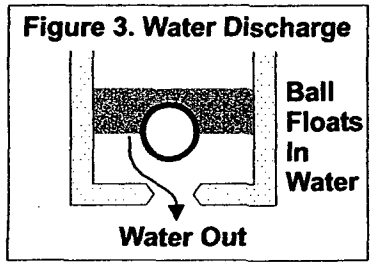
The Ferret pump is used to recover floating hydrocarbons from wells without pumping water. The Ferret is typically installed in a 4" or larger groundwater recovery well, with the pump inlet positioned at or above the interface between the groundwater and any floating hydrocarbon. The Ferret uses specific gravity check balls to separate hydrocarbon and water inside the pump, reject the water and pump any hydrocarbon (see Figs. 3 and 4). The Ferret uses an internal air displacement pump to provide the pumping action. Timers and a surface mounted air valve cycle compressed air into the pump and let the air vent. The cycling of air creates a pumping action with the fluid discharging from the pump when the compressed air is applied and the fluid filling the pump when the compressed air is vented.

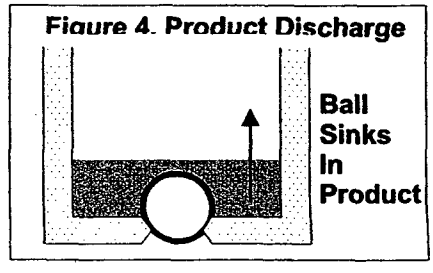
Floating hydrocarbons vary widely in specific gravity and viscosity. As specific gravity approaches 1.0 (the specific gravity of water) it becomes harder to separate the hydrocarbon from the water in any device. Ferrets are used when hydrocarbons have specific gravity in the 0.70 to 0.90 gm/cc range. As viscosity increases the ability of the hydrocarbon to flow into the well and into recovery devices decreases, the fixed inlet Ferret can handle liquids with kinematic viscosities up to 1000 centistokes at 55° F, while the floating inlet Ferret can handle up to 350 centistoke fluids (at 55° F).

Selecting an air source

The HIWS42 and HIWSFI12 pumps will require about 2 CFM of compressed drive air to operate at their maximum flow rates. An air source with less than 2 CFM (per pump) will run the pump in cases where pump refill cycle times are set long (greater than 2-3 minutes) and recovery flow rate is less than maximum. The following recommendations will minimize air supply system problems:

- Locate compressor and support equipment inside a building. This protects compressor components from rain and freezing conditions.
- Follow compressor manufacturer recommendations for sealing oil use and service life.
- In areas where freezing may occur locate compressor supply piping below the frost line or use heat-trace. Insulate other valves or areas where compressor condensate may collect and freeze. Use an after cooler and air drier to minimize freezing problems.
- Purge all air supply pipes and tubing runs *before* attaching equipment. Frequently tubes become filled with installation cuttings and debris.
- In hot climates provide sufficient ventilation to prevent compressor and motor overheating.
- An auto-drain on the compressor tank is recommended to prevent moisture build-up in air distribution piping.



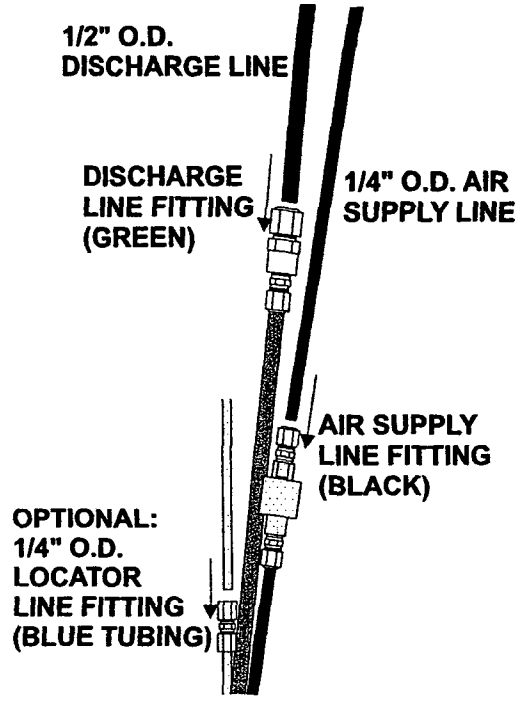


Installing the pump

Pump installation is similar for both the HIWS42 and HIWSFI12 pumps. Pump installation involves attaching the tubing to the pump, locating the tubing loosely in the well cap, positioning the pump in the well and tightening the well cap fittings. Next complete any surface tubing runs. Step by step:

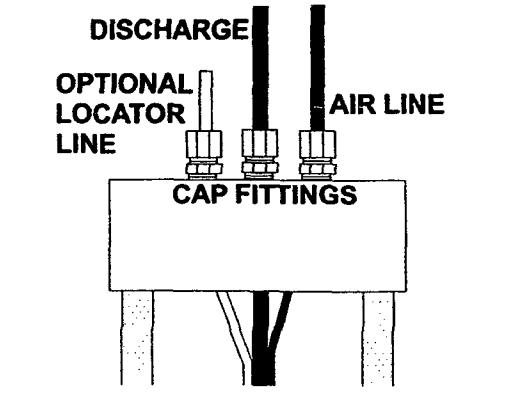
- Attach tubing to the Ferret . See Figure 5.

Figure 5. Tubing attachment to pump



- Insert tubing through the well cap. See Figure 6.

Figure 6. Tubing through well cap



- Position the Ferret in the well. See Figs. 7 and 8.

Figure 7. HIWS42 Pump Position

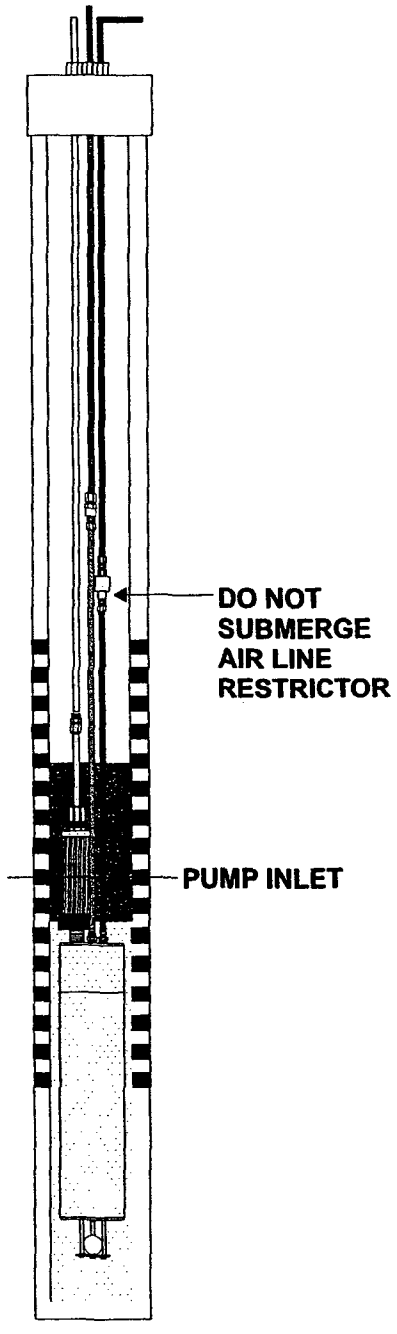
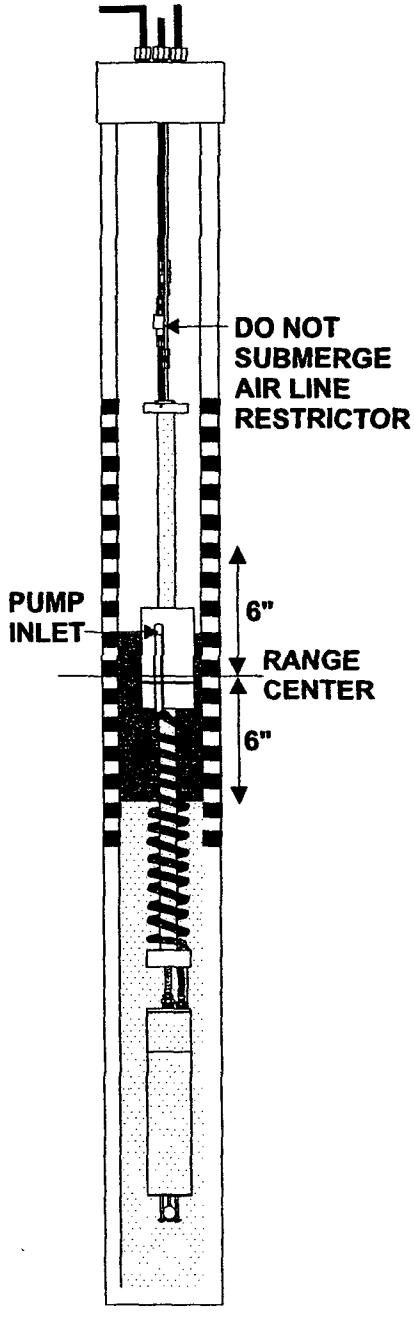


Figure 8. HIWSFI12 Pump Position



- Tighten cap fittings. Refer back to Fig. 6.
- Complete all discharge tubing connections and runs.

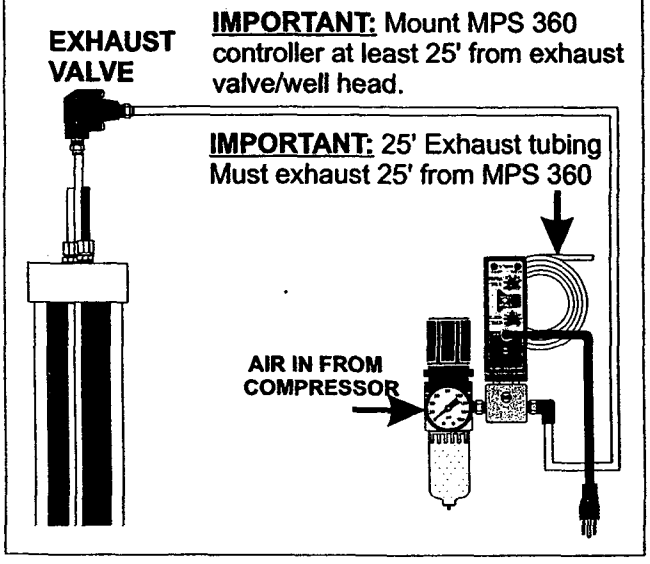
Installing the controller

The Ferret pump requires a timer operated air valve to provide pump discharge and refill action. The two options for this control are the 110V-AC powered MPS360 Controller or the solar powered C100 Controller. Controller installation is similar for both units. The C100 Controller can be used in environments containing explosive vapors, when powered only by the solar panel and not with the A/C adapter, while the MPS360 may not. See the *Safety Section* of this manual for further information. If one controller is being used to operate more than one pump, see the section titled Multiple pump installation in the Installation Section or more information.

MPS360 Controller Installation

See Fig. 9. Mount MPS 360 at least 25 feet from exhaust valve/and or well head. Normally the MPS 360 is located near the compressor. Note that the 25' exhaust tubing is used to vent potentially explosive vapors from the pump into a non-explosive area. See the *Safety section* in this manual for more information.

Figure 9. MPS 360 Typical Use



C100 Controller Installation

C100 in outdoor use mode. See Fig. 10. C100 is located near or at the recovery well in an area that receives sunlight. Fig. 11 shows optional AC adapter use with the C100. Use of the AC adapter makes the C100 unsafe for use in explosive environments. See *Safety section* in this manual for more information.

Figure 10. C100 in Solar Charge Mode

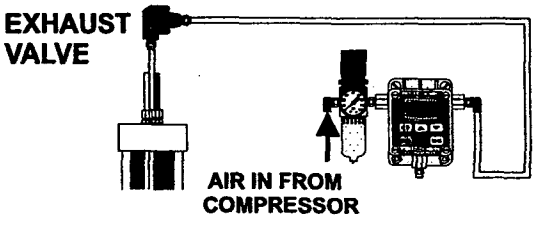
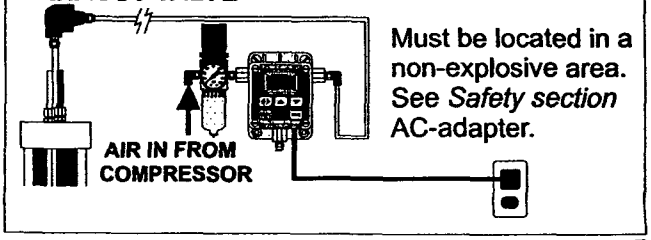


Figure 11. C100 When Used W/ Optional AC Adapter



Operating the system

Adjust the controller refill and discharge times to allow for complete pump filling and discharge. Partial discharge from a pump can be the result of insufficient product availability in the well, a refill time that is set too short or a discharge time that is set too short. In general, a discharge time of 10-15 seconds and a refill time of 1-2 minutes will initiate pumping. Further tuning of times may be required to maximize pump flow rate. If the discharge time is set too long air may appear in the discharge tube. Control of flow rate is also available through adjustment of the regulator on the controller. In general, leave the regulator turned fully clock-wise (delivering maximum compressor supply pressure to the pump) unless there is a need to slow down the pump action during a discharge cycle. Insufficient pressure supplied to the pump may prevent the pump from fully discharging from the well or discharging against discharge header backpressure.

Ferret pump position may require occasional adjustment in cases where static water level changes or product layer thickness changes. Both Ferret pumps are designed to continue pumping in conditions where coalesced liquids or bio-growth exist in the well. Occasional pump and pump inlet cleaning may be required to ensure trouble-free operation.

Single Pump Installation

Figure 12. shows a single pump being controlled by a single controller. Figure shows either MPS 360 or C100 controller use.

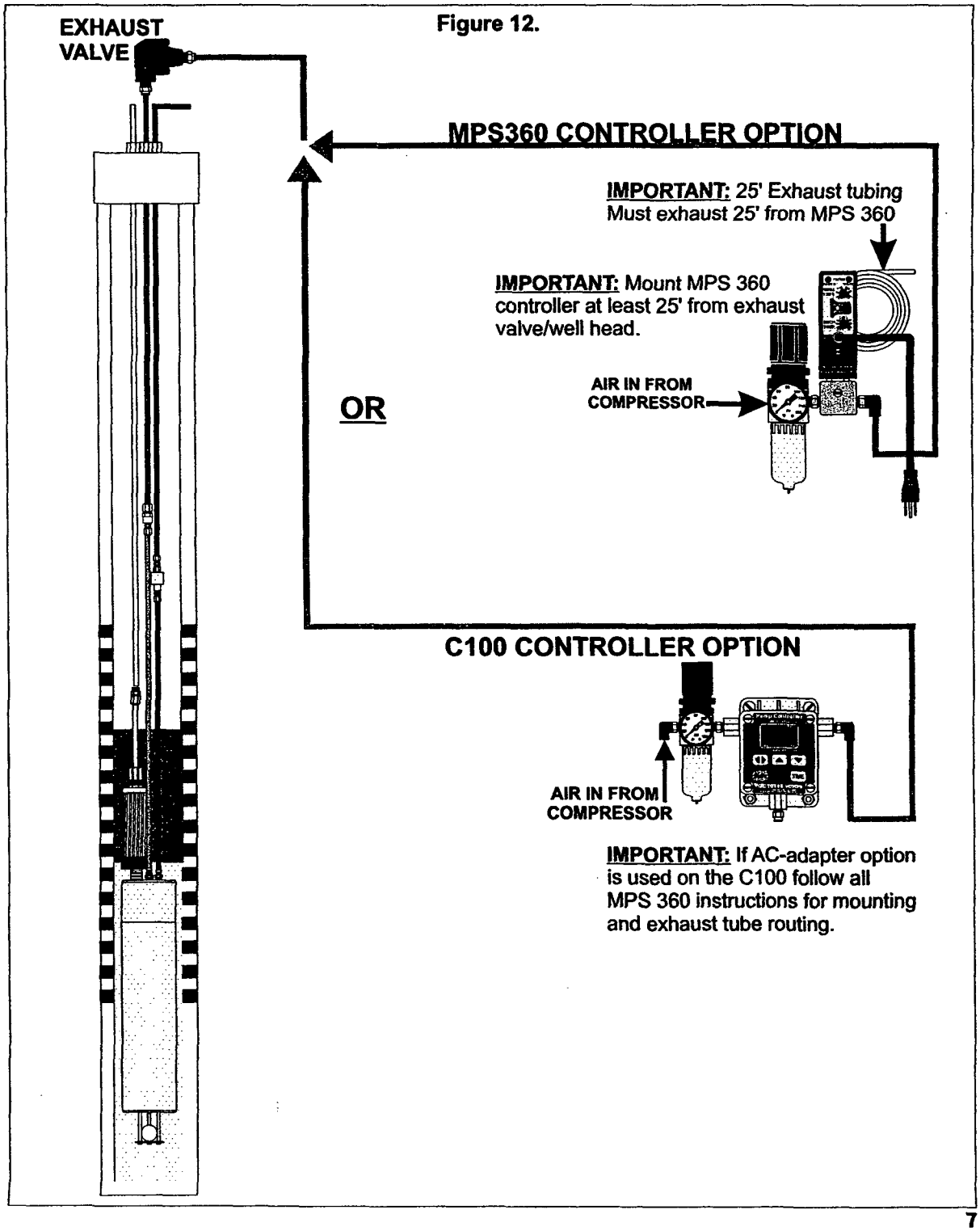
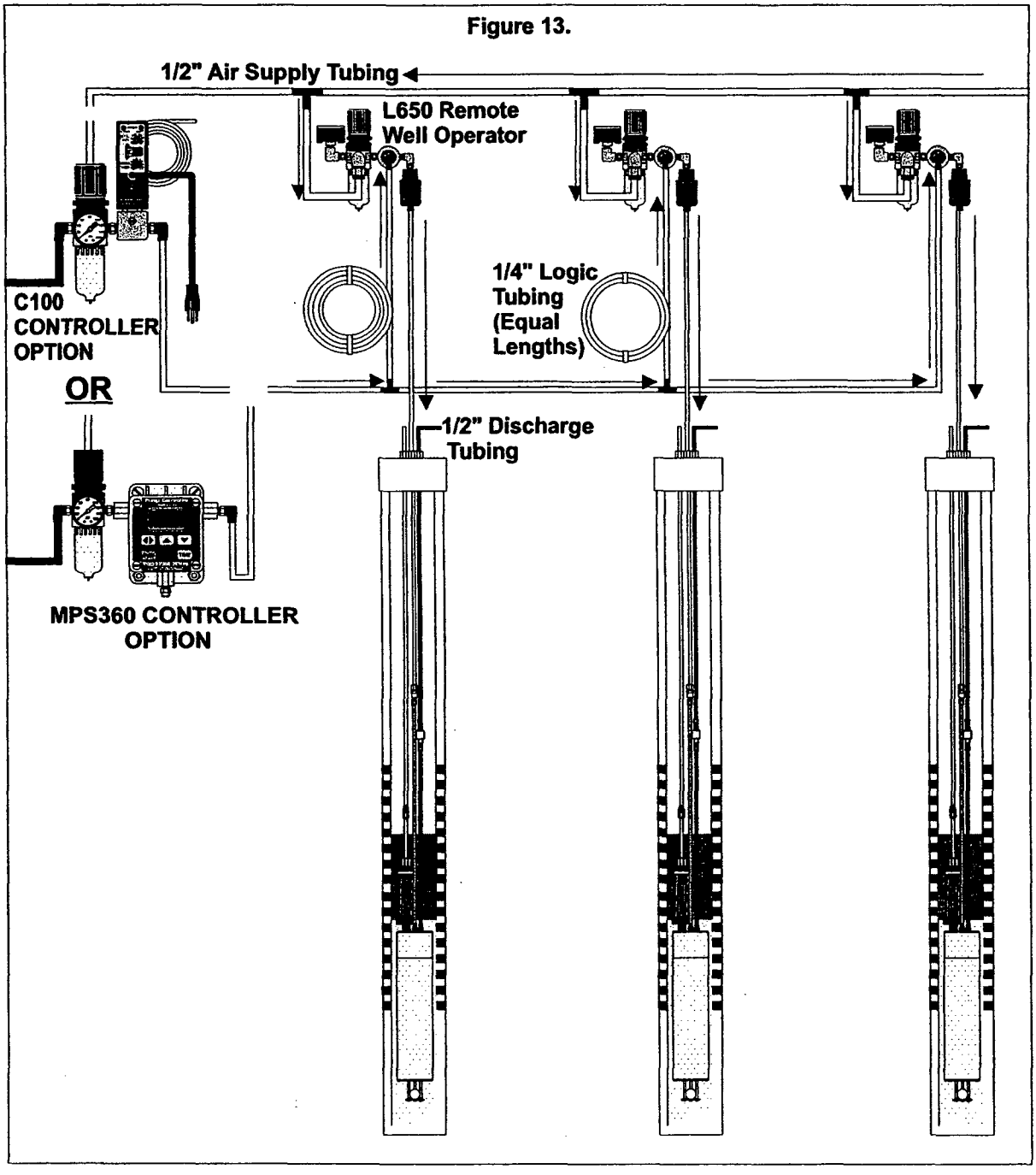


Figure 12.

Multiple Pump Installation

Figure 13. Shows a single controller being used to optimize more than one pump. L650 remote well operators are used to allow some independent drive pressure adjustment on each pump.

Figure 13.



Pump location

If using the optional blue pump locator tube and pump positioner hand pump, use the hand pump gauge readout to locate the inlet of the pump. The dynamics of product flow into a well once pumping is underway may require pump inlet adjustment. In general, a pump inlet location several inches below the static liquid surface (as shown on the pump positioner gauge) will ensure that all floating liquids enter the Ferret and are recovered. If the well has no floating hydrocarbons or a very thin layer, the Ferret will reject the water that enters the inlet and will continue to accumulate product in the pump body until there is sufficient product to pump to the surface.

Controller settings

Both the MPS360 and C100 Controllers have three basic controls available that affect pump operation:

- **Refill time setting.** The refill time setting determines how long the pump will fill. This time needs to be longer when product has a high viscosity and flows slowly. The HIWS42, fixed inlet Ferret, will allow faster inflow of product than the floating inlet HIWSFI12 Ferret (where the product flows down a coiled drain attached to the float). The MPS360 controller is settable from 1 minute to 45 minutes. The C100 controller is settable from 1 second to 99 hours, 59 minutes and 59 seconds. In general, a refill time setting of 1-2 minutes is appropriate for most sites and conditions. Setting a long refill time can help to match pump performance to product inflow in cases where the product flows into the well slowly.

- **Discharge time setting**. The discharge time setting determines how long the pump will discharge. This time needs to be longer when pump is deeper, when the pump is pumping against a higher back pressure (a pressure header or pumping up a hill) and when the product has a high viscosity and flows slowly. The MPS360 controller is settable from 5 seconds to 120 seconds. The C100 controller is settable from 1 second to 99 hours, 59 minutes and 59 seconds. In general, a discharge time setting of 10-15 seconds is appropriate for most sites and conditions. If the discharge time is set too long drive air may enter the discharge tubing.

- **Pump supply pressure setting**. The filter-regulator attached to the controller is used to raise or lower the pressure applied to the pump during a discharge cycle. For most sites this is set at the fully clock-wise position to deliver full compressor supply pressure to the pump. If the pump discharge is too aggressive for your particular situation, this pressure may be decreased to slow the flow from the pump during a discharge cycle. If the pressure is decreased, it is often necessary to increase the discharge time slightly to offset the decrease in flow and maintain a full pump discharge volume.

The C100 Controller features an additional control option to set an awake or sleep mode. (refer to the *C100 O&M Manual* for full operation details). This option can be used to schedule Ferret system operation during a several day period (for example, the controller can be set to turn on once per day and operate the pump for 2 hours, etc.). This is useful to match Ferret system performance to real world product inflow rates in slower recovery situations.

General Troubleshooting

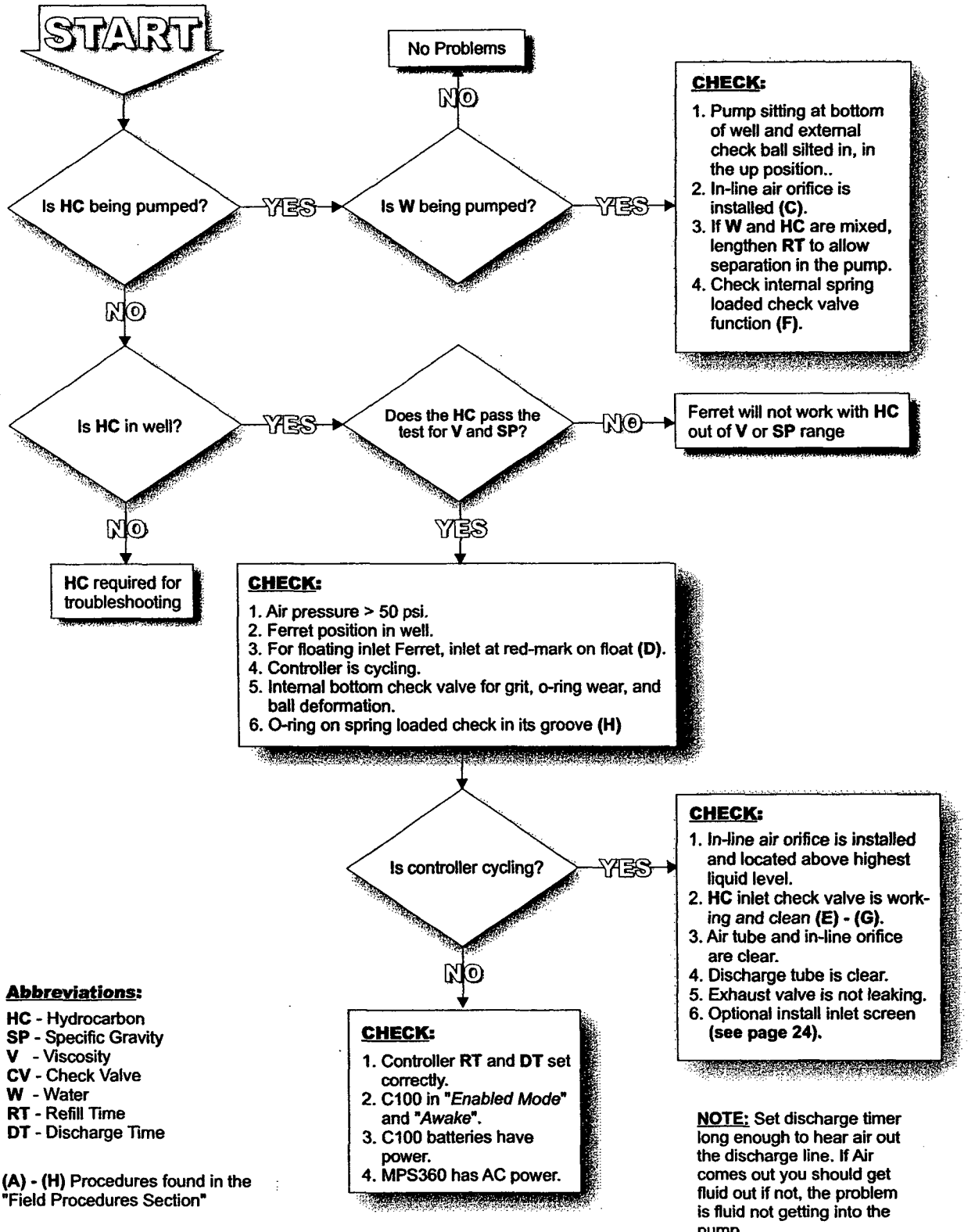
In most cases your Ferret system will operate trouble-free month after month and will produce hydrocarbon without water the whole time. Since the Ferret relies on specific gravity rated check balls to separate hydrocarbon and water the forces created from the difference in specific gravity between the recovered hydrocarbon and water can be slight. The following items determine how well your Ferret will perform and how frequently the device might require attention:

- The well / aquifer system has an ample volume of hydrocarbon to be recovered and this hydrocarbon readily flows into the recovery wells.
- The hydrocarbon has a viscosity and specific gravity within the Ferret's capabilities (this is listed on each Ferret technical support sheet, see Appendix 1.) and the liquid properties have not changed since last tested.
- The well has minimal biofouling and/or suspended particles.
- Mixed hydrocarbon and water (coalesced) separate in a reasonable time (less than 1-2 minutes).
- The static water level in the well is fairly stable over short time periods.

Problems commonly are traced to one of the following causes:

- The well has solids or bio-solids that clog pump inlet ports.
- The well has suspended grit, sand, PVC casing shavings etc. that prevents check balls from fully seating.
- The well doesn't have a rapidly replenished supply of hydrocarbon.
- The air supply system isn't clean and clogs filters or orifices.
- The target hydrocarbon has a higher viscosity than recommended for the Ferret model being used.
- The target hydrocarbon has a specific gravity too close to water or is mixed with water and doesn't readily separate.

4" High Capacity Ferret Separator Pump Troubleshooting Chart



Abbreviations:

HC - Hydrocarbon
SP - Specific Gravity
V - Viscosity
CV - Check Valve
W - Water
RT - Refill Time
DT - Discharge Time

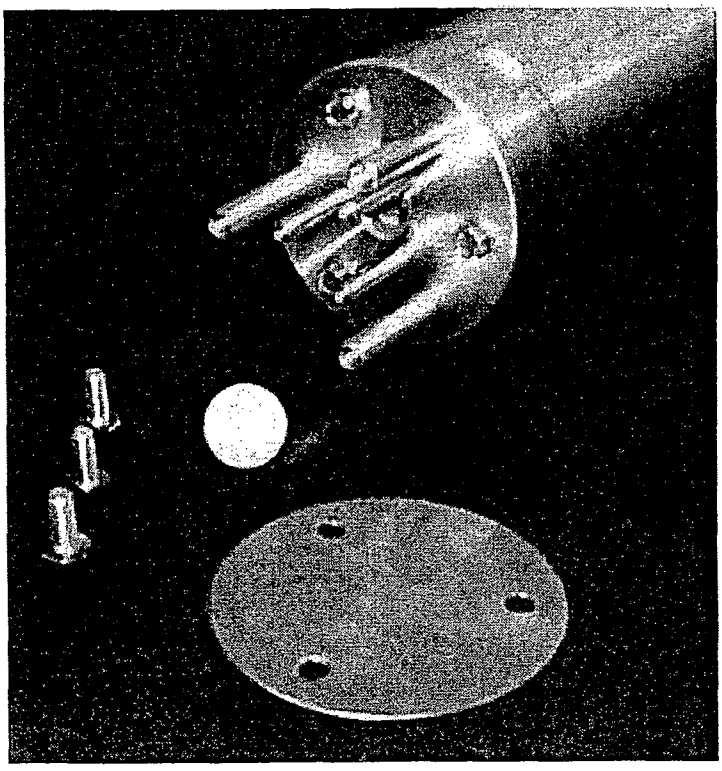
(A) - (H) Procedures found in the "Field Procedures Section"

NOTE: Set discharge timer long enough to hear air out the discharge line. If Air comes out you should get fluid out if not, the problem is fluid not getting into the pump.

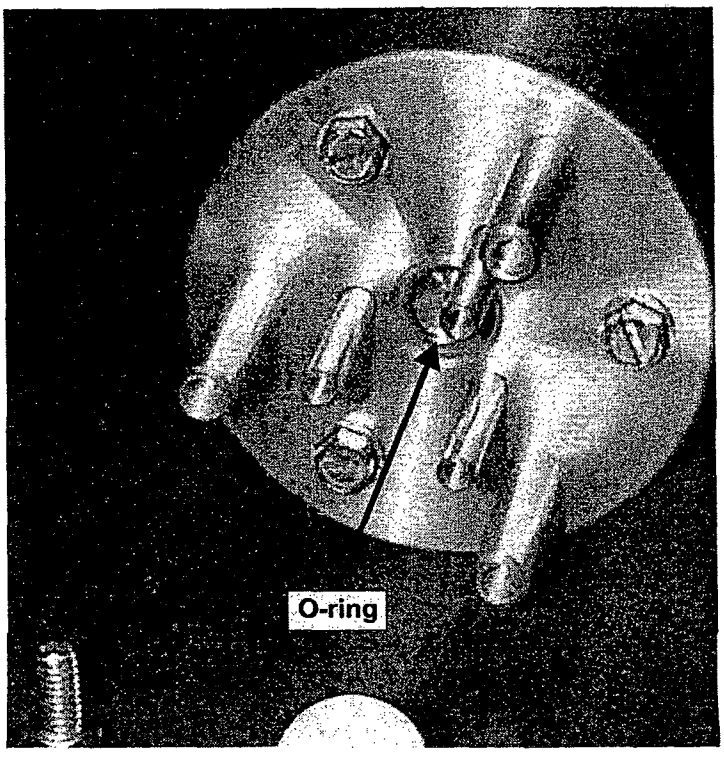
If this guide fails to identify your problem contact QED Service and Repair at:

Phone: **1-800-624-2026** FAX: **1-734-995-1170** 24 Hour Beeper: **1-800-272-9559**
Outside of U.S.: **1-734-995-2547** e-mail: **service@qedenv.com**

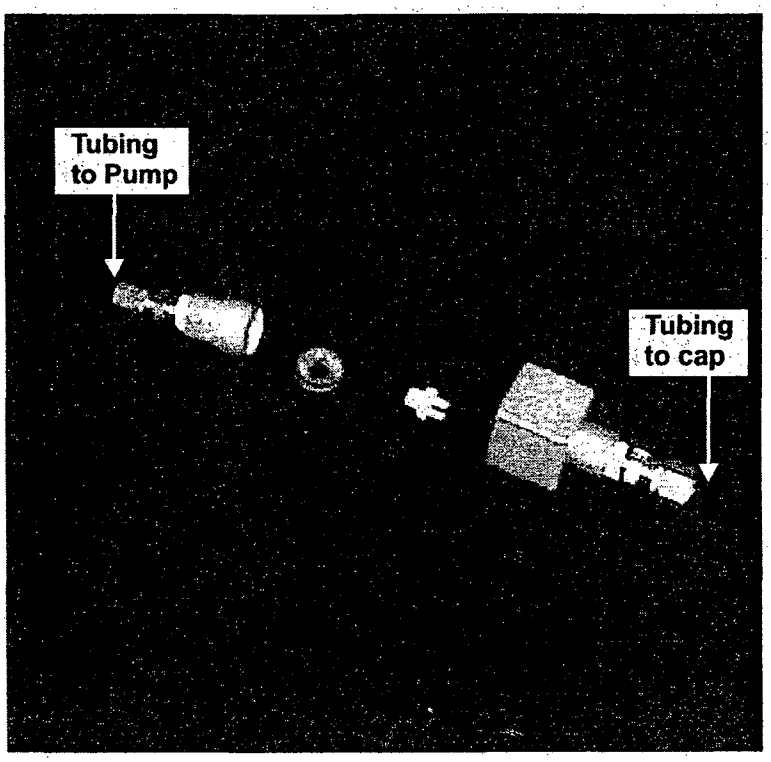
- **(A)** Cleaning the pump bottom check ball.



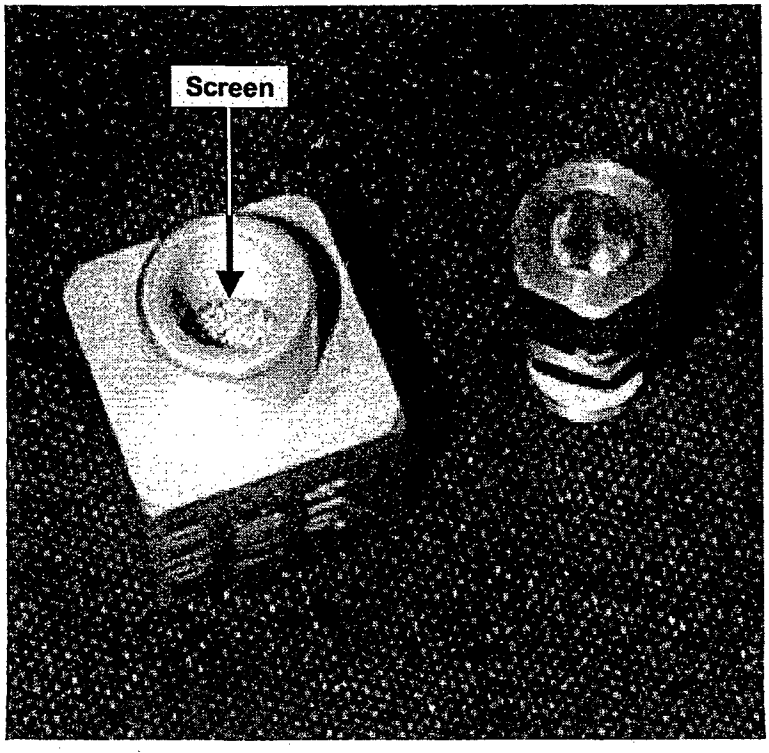
- **(B)** Check the bottom o-ring for wear or fouling.



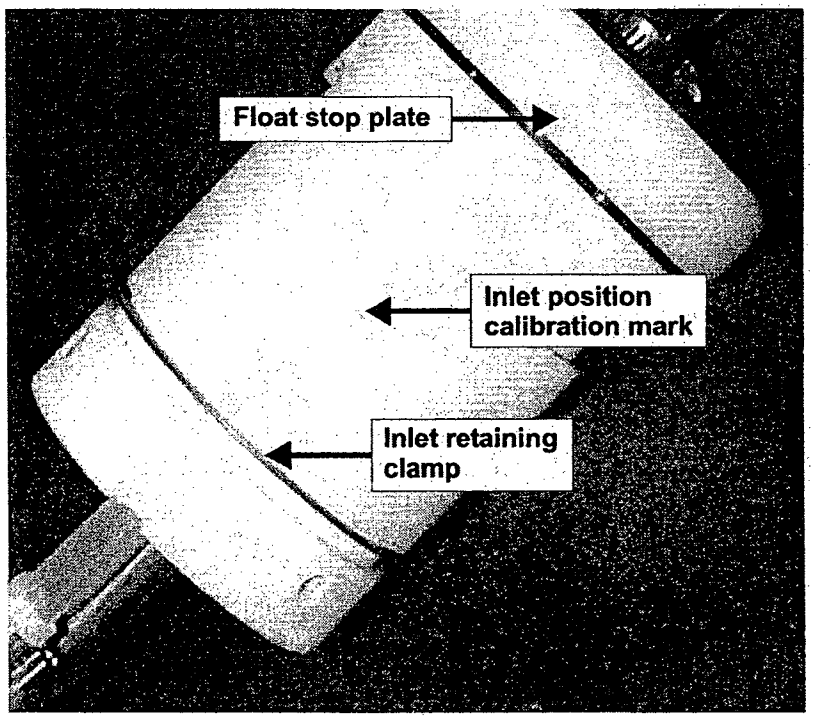
- **(C)** Cleaning the in-line air restrictor. Note orientation of parts for correct re-assembly.



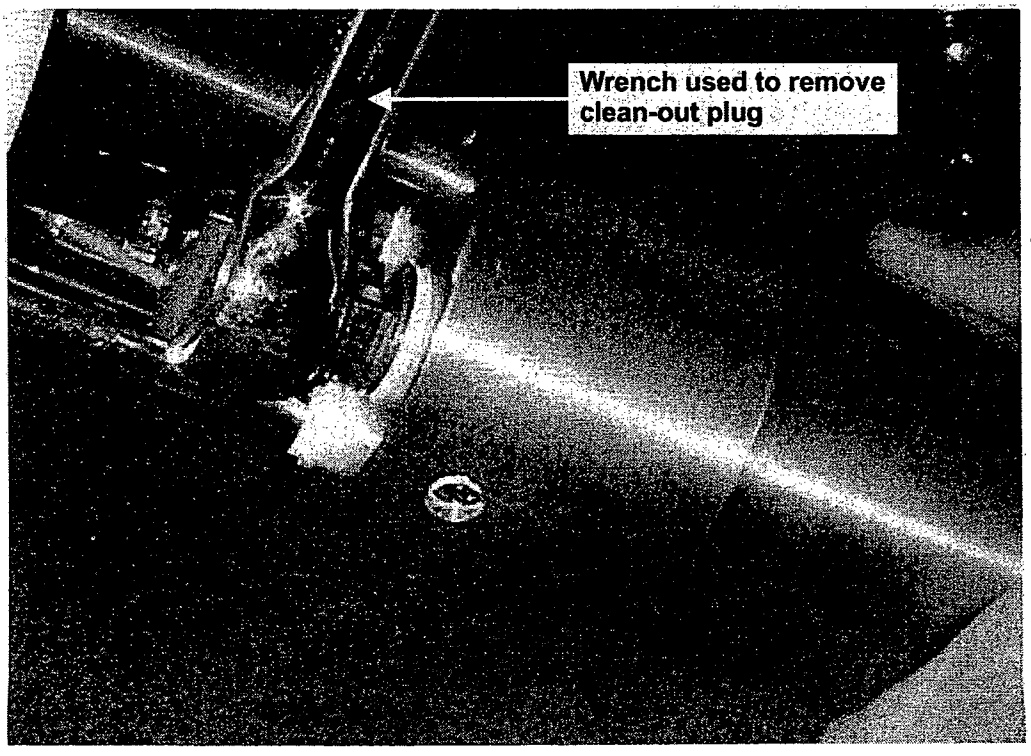
Verify that screen is clean



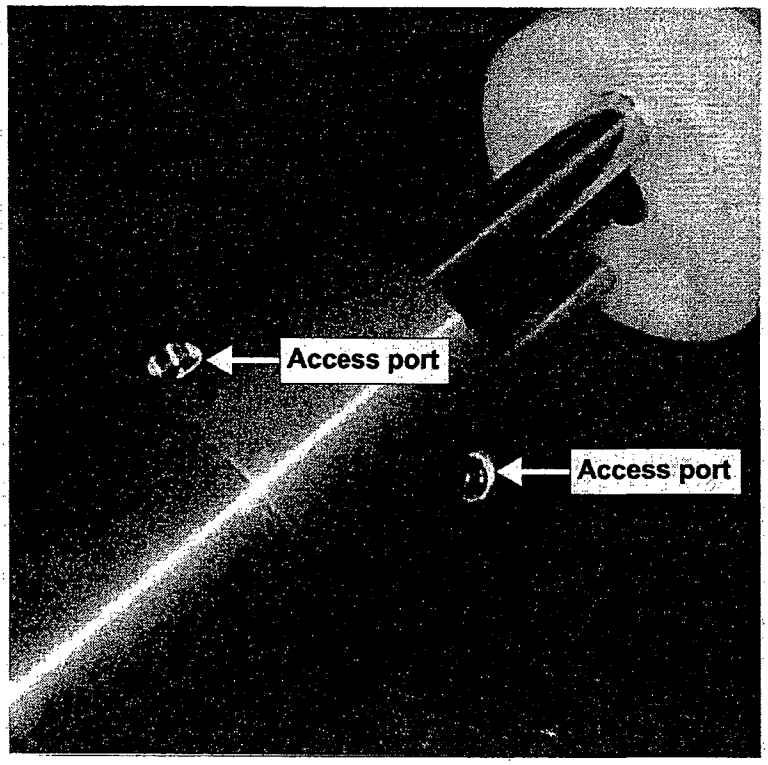
- **(D)** Floating inlet calibration position and inlet retaining clamp. Ensure inlet tube is even with calibration mark on float.



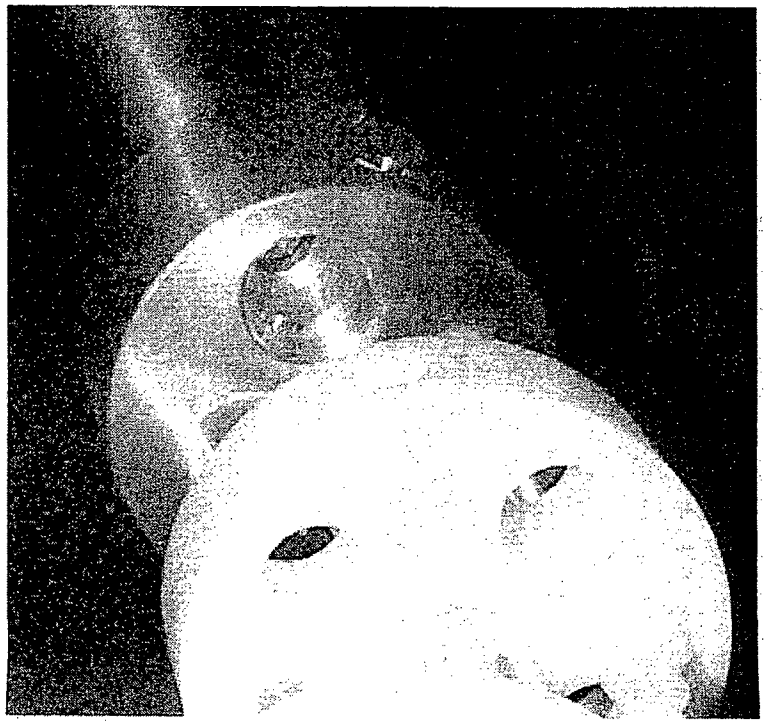
- **(E)** Access for cleaning inlet ports.



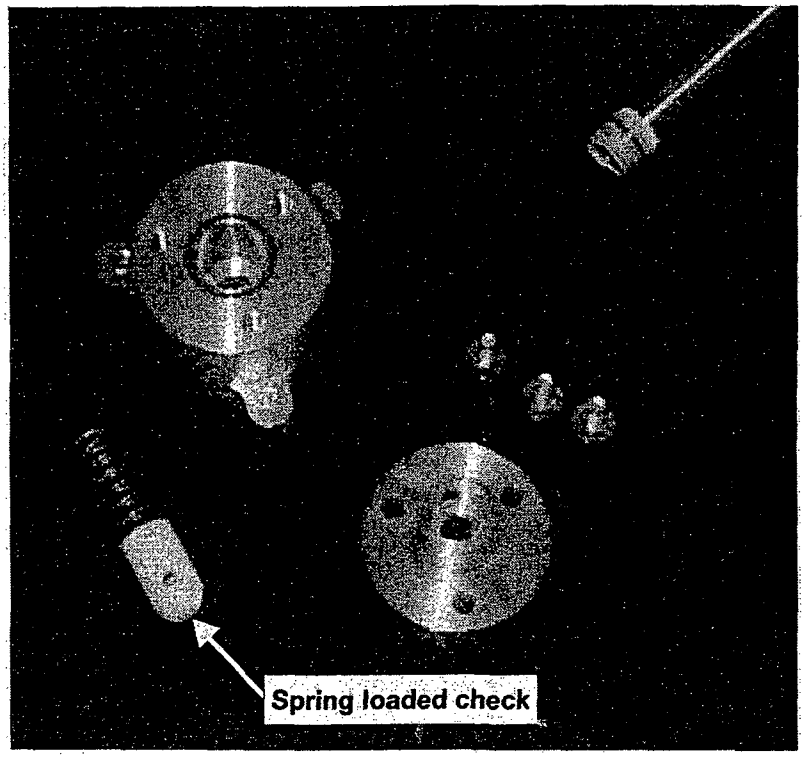
- **(F)** Access ports to inlet pathways for cleaning.



- **(G)** Check inlet port/o-ring for fouling and clean. Verify internal o-ring position and condition.



- **(H)** Cleaning internal spring loaded check.



Contacting QED

If you have any questions, comments, need to order repair parts or have any other issues you wish to discuss, please contact our *Service and Repair Department* at:

Phone:	(800)-624-2026
FAX:	(734)-995-1170
24 Hr Beeper:	(800)-272-9559
Outside of US:	(734)-995-2547
e-mail:	service@qedenv.com

4" HIGH CAPACITY SEPARATOR PUMPS

QED Environmental Systems, Inc. (QED) warrants to the original purchaser of its products that, subject to limitations and conditions provided below, the products, materials and/or workmanship shall reasonably conform to descriptions of the products and shall be free of defects in materials and workmanship. Any failure of the products to conform to this warranty will be remedied by QED in the manner provided herein.

This warranty shall be limited to the duration and the conditions set forth below. All warranty durations are calculated from the original date of purchase.

1. Liquid contacting equipment (including pumps), tubing, liquid contacting supplies and flow totalization equipment are warranted for 1 year.

2. Control devices, control device mounting, and surface air supply hose are warranted for 1 year.

3. Separately sold parts and spare parts kits are warranted for ninety (90) days.

4. Repairs performed by QED are warranted for ninety (90) days from date of repair or for the full term of the original warranty, whichever is longer.

Buyer's exclusive remedy for breach of said warranty shall be as follows: if, and only if, QED is notified in writing within the applicable warranty period of the existence of any such defects in the said products, and QED upon examination of any such defects, shall find the same to be within the term of and covered by the warranty running from QED to buyer, QED will, at its option, as soon as reasonably possible, replace or repair any such product, without charge to Buyer. If QED for any reason, cannot repair a product covered hereby within four (4) weeks after receipt of the original Purchaser's /Buyer's notification of a warranty claim, then QED's sole responsibility shall be, at its option, either to replace the defective product with a comparable new unit at no charge to the Buyer, or to refund the full purchase price. In no event shall such allegedly defective products be returned to QED without its consent, and QED's obligations of repair, replacement or refund are conditioned upon the Buyer's return of the defective product to QED.

IN NO EVENT SHALL QED ENVIRONMENTAL SYSTEMS INC. BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF SAID WARRANTY.

The foregoing warranty does not apply to major subassemblies and other equipment, accessories, and other parts manufactured by others, and such other parts, accessories, and equipment are subject only to the warranties, if any, supplied by their respective manufacturers. QED makes no warranty concerning products or accessories not manufactured by QED. In the event of failure of any such product or accessory, QED will give reasonable assistance to Buyer in obtaining from the respective manufacturer whatever adjustment is reasonable in light of the manufacturer's own warranty.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY (INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE), WHICH OTHER WARRANTIES ARE EXPRESSLY EXCLUDED HEREBY, and of any other obligations or liabilities on the part of QED, and QED neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with said products, materials and/or workmanship.

It is understood and agreed that QED shall in no event be liable for incedental or consequential damages, nor for improper selection of any product described or referred to for a particular application.

This warranty will be void in the event of unauthorized disassembly of component assemblies. Defects in any equipment that result from abuse, operation in any manner outside the recommended procedures, use and applications other than for intended use, or exposure to chemical or physical environment beyond the designated limits of materials and construction will also void this warranty.

Chemical attack to liquid contacting equipment and supplies shall not be covered by this warranty. A range of materials is available from QED and it is the Buyer's responsibility to select materials to fit the Buyer's application. QED will only warrant that the supplied liquid contacting materials will conform to published QED specifications and generally accepted standards for that particular material.

QED shall be released from all obligations under all warranties if any product covered hereby is repaired or modified by persons other than QED's service personnel unless such repair by others is made with the written consent of QED. If any product covered hereby is actually defective within the terms of this warranty, Purchaser must contact QED for determination of warranty coverage. If the return of a component is determined to be necessary, QED will authorize the return of the component, at owner's expense. If the product proves not to be defective within the terms of this warranty, then all costs and expenses in connection with the processing of the Purchaser's claim and all costs for repair, parts and labor as authorized by owner hereunder shall be borne by the Purchaser.

The original Purchaser's sole responsibility in the instance of a warranty claim shall be to notify QED of the defect, malfunction, or other manner in which the terms of this warranty are believed to be violated. You may secure performance of obligations hereunder by contacting the Customer Service Department of QED and:

1. Identify the product involved (by model or serial number or other sufficient description that will allow QED to determine which product is defective).

2. Specifying where, when, and from whom the product was purchased.

3. Describing the nature of the defect or malfunction covered by this warranty.

4. Sending the malfunctioning component, after authorization by QED to:

QED Environmental Systems, Inc.

6155 Jackson Rd.. Ann Arbor, Michigan 48103

FERRET™ IN-WELL SEPARATOR

QED Environmental Systems, Inc.

P.O. Box 3726, Ann Arbor, Michigan 48106

734-995-2547 800-624-2026 Fax: 734-995-1170

E-Mail: info@qedenv.com Website: http://www.qedenv.com

Appendix 1. MPS360 Controller Technical Information Sheet

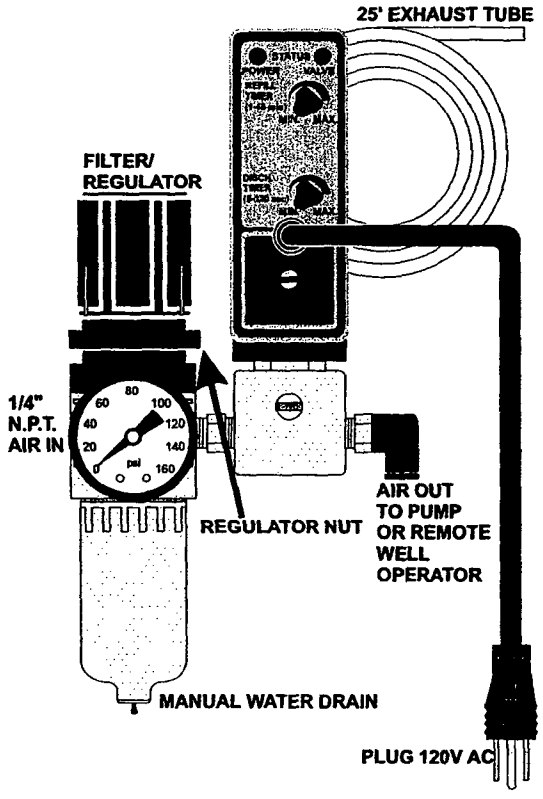
Appendix 2. C100 Controller Technical Information Sheet

Appendix 3. Ferret Model HIWS42 Technical Information Sheet

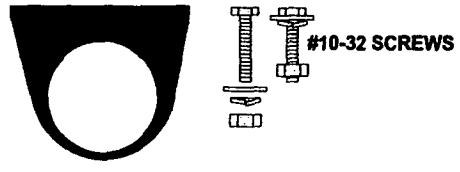
Appendix 4. Ferret Model HIWSFI12 Technical Information Sheet

Appendix 5. Float Screen Installation

MPS360 ELECTRICAL/PNEUMATIC PUMP CONTROLLER



MOUNTING HARDWARE



OPTIONAL "AIR IN" FITTINGS

1/4" O.D. TUBE CONNECTOR FOR COMPRESSOR OR TH3 COMPRESSOR

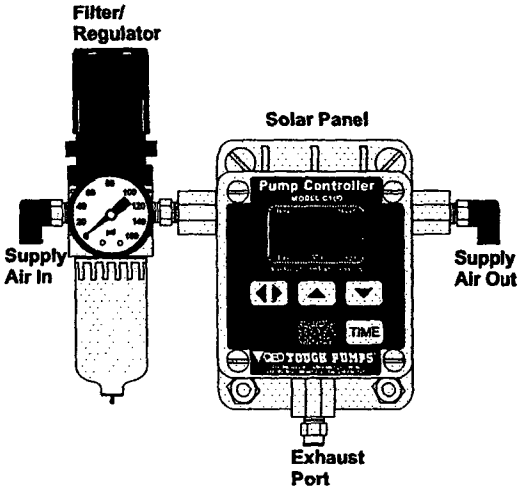
1/4" O.D. TUBE FROM COMPRESSOR

1/4" O.D. TUBE FROM COMPRESSOR

1/4" O.D. TUBE CONNECTOR TO REMOTE WELL "AIR IN" OPERATOR (L650)

CONTROLLER TYPE: ELECTRICAL/PNEUMATIC
DIMENSIONS: **WIDTH** - 6" (15.2 cm) **HEIGTH** - 10" (25.4 cm) **DEPTH** - 5" (12.7 cm) **WEIGHT** - 2.5 LBS. (1.1 kg) MOUNTING BRACKET FITS UNDER REGULATOR NUT
FITTINGS: **AIR IN:** 1/4" MPT (OPTIONAL FITTING SUPPLIED FOR 1/4" O.D. TUBE) **AIR OUT:** 1/4"O.D. TUBE FITTING
SPECIFICATIONS: SOLENOID VALVE FUNCTION: 3-WAY (NORMALLY CLOSED)
TEMPERATURE RANGE: AMBIENT 16°F (-10°C) to 122°F (+50°C)
COIL DATA: 10 watt, 120 VOLT A.C.
FILTER/REGULATOR **REGULATING RANGE:** 7-125 P.S.I. **AMBIENT MEDIAN TEMPERATURE:** 40°F (5°C) TO 140°F (60°C)
5 MICRON FILTRATION ELEMENT
Controller to be mounted 20' from well head. An exhaust valve or remote well operator must be mounted at the well head. This will exhaust all air and vapors from the pump without going through the controller.
Controller can operate up to 7 pumps
OPERATING PRESSURE RANGE: 50-125 P.S.I.
MAXIMUM LIFT: 200' (60m)
TIMER SETTINGS: **REFILL TIME:** 1-45 Minutes **DISCHARGE TIME:** 5-120 Seconds
RED POWER LIGHT
RED VALVE "ON" LIGHT
6' CORD WITH GROUNDED PLUG
25' EXHAUST TUBE

C100 SOLAR/ELECTRICAL/PNEUMATIC PUMP CONTROLLER



CONTROL KEYS:

Allows manual toggling of valve and system ON & OFF cycles. Also allows enabling & disabling of system.

DATA — Multi screen key to sequentially display well status, battery status, solar panel voltage, ON/OFF and system valve.

TIME — Allows system counts and time sums, and valve time settings.

SET KEYS:

Left/right cursor key

Up or add key.

Down or subtract key.

NOTE:
Display turns off after five minutes of non activity. Press any key to turn display back on.

CONTROLLER TYPE:

SOLAR/ELECTRICAL/PNEUMATIC

ENCLOSURE:

WIDTH - 3.5" (8.9 cm)
HEIGTH - 3.65" (9.3 cm)
DEPTH - 3.5" (8.9 cm)
WEIGHT - 3 LBS. (1.4 kg)
TYPE - Fiber reinforced thermoplastic NEMA 4X & UL 508 CSA compliance, intrinsically safe, class 1, division 1, group C & D

POWER:

TYPE - Sealed NiCAD battery pack.
CAPACITY - 3.6 Vdc @ 600 mA-Hr
DRAIN - <2 mA average
RESERVE - 10 operating days

CHARGER:

INTERNAL - Solar panel (0.3 W) 5.5 Vdc @ 55 mA shatterproof.
START UP - Automatic dead battery solar startup
SOLAR CHARGE - Maintains minimum 3x daily operating requirement

TEMPERATURE:

OPERATING - -20° F to 150° F (28.9° C to 65.6° C)

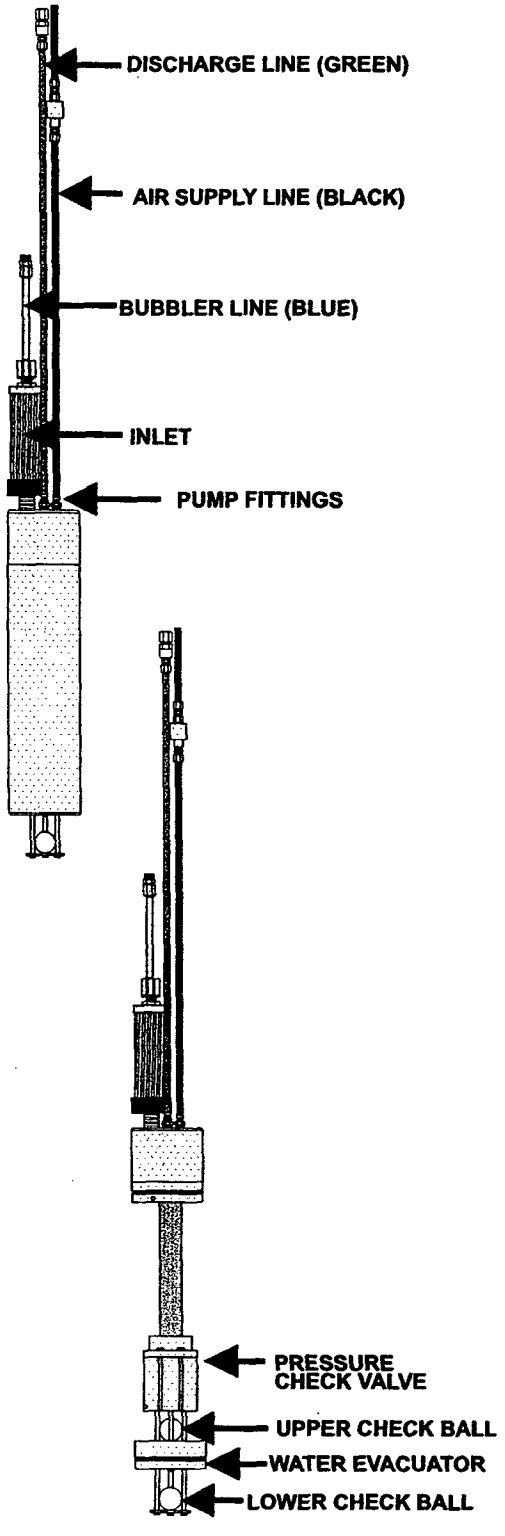
DISPLAY:

TYPE - LCD display, 16 character alphanumeric w/ temperature compensated contrast and power off control
WINDOW - Non-glare, double hardened optical acrylic

PNEUMATIC CONTROL:

TYPE - Latching solenoid w/ dual port manifold
FITTINGS - Female 1/4-18 NPT brass with nickel plating
PRESSURE - 150 P.S.I. (1050 kPa) maximum

HIWS42 HIGH CAPACITY FERRET SEPARATOR PUMP



Separator Type: Positive Air Displacement

Dimensions:

O.D.:	3.5" (9 cm)
Length:	22" (56cm)
Weight:	18 lbs. (8 kg)
Minimum Well Diameter:	4" (10 cm) or larger
Inlet Port:	18" (46 cm) above bottom of device

Materials: Stainless Steel, Brass, Delrin, Polypropylene and Viton O-rings.

Fittings:

Type:	Brass Compression
Discharge Size:	1/2" O.D. (1.27 cm)
Air Supply Size:	1/4" O.D. (.63 cm)
Level Gauge:	1/4" O.D. (.63 cm)

Separator Performance:

Operating Pressure Range:	50-120 P.S.I. (350-840 kPa)
Maximum Lift:	200 FEET (60 m)
Estimated Air Flow:	0.5-1.0 S.C.F.M. at 50 P.S.I. (350 kPa)

Separator Flow Rates:

Up to 300 G.P.D. (1135 L.P.D.) possible with 3' (91 cm) or more of liquid submergence over the inlet. Flow rate will vary depending on viscosity. Consult QED for flow rates with high viscosity.

Discharge Amount:

Maximum hydrocarbon removal volume per cycle is 1300 ml. This may be less depending upon amount of water that enters with the hydrocarbon and is expelled by the separator. **THE IN-WELL SEPARATOR WILL ONLY DISCHARGE HYDROCARBON TO THE SURFACE.**

Floating Layer Density: 0.7-0.90 g/cc

Viscosity Range:

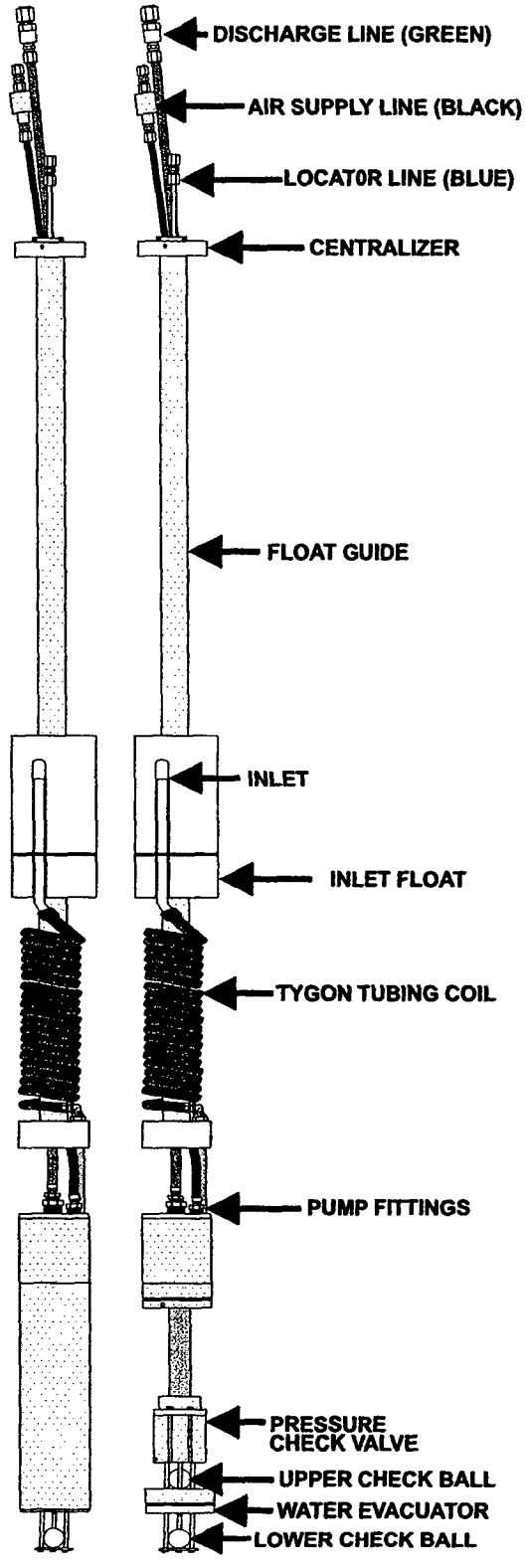
The High Capacity Ferret is recommended for liquids with kinematic viscosities up to 1000 centistokes. Suitable liquids that may meet the viscosity recommendations are: gasoline, kerosene, fuel oil, diesel fuel, motor oils, and hydraulic fluids. Incompatible liquids include water soluble fluids such as cutting fluids

Controller:

*MPS 360 Electrical/Pneumatic Controller
*C100 Electronic/Pneumatic/Solar Controller

*For more technical data see the tech/data sheet for the MPS 360 and C100

HIWSFI12 HIGH CAPACITY FERRET SEPARATOR PUMP



Separator Type: Positive Air Displacement

Dimensions:

O.D.:	3.5" (9 cm)
Length:	51" (128 cm)
Weight:	20 lbs. (9 kg)
Minimum Well Diameter:	4" (10 cm) or larger
Inlet Port:	35" (89 cm) above bottom of device
Inlet Range:	12" (31 cm)

Materials: Stainless Steel, Brass, Delrin, Polypropylene and Viton O-rings.

Fittings:

Type:	Brass Compression
Discharge Size:	1/2" O.D. (1.27 cm)
Air Supply Size:	1/4" O.D. (.63 cm)
Level Gauge:	1/4" O.D. (.63 cm)

Separator Performance:

Operating Pressure Range:	50-120 P.S.I. (350-840 kPa)
Maximum Lift:	200 FEET (60 m)
Estimated Air Flow:	0.5-1.0 S.C.F.M. at 50 P.S.I. (350 kPa)

Separator Flow Rates:

Up to 275 G.P.D. (1041 L.P.D.) possible with 1' (30 cm) or more of liquid submergence over the inlet. Flow rate will vary depending on viscosity. Consult QED for flow rates with high viscosities.

Discharge Amount:

Maximum hydrocarbon removal volume per cycle is1300 ml,. This may be less depending upon amount of water that enters with the hydrocarbon and is expelled by the separator. **THE IN-WELL SEPARATOR WILL ONLY DISCHARGE HYDRO-CARBON TO THE SURFACE.**

Floating Layer Density: 0.7-0.90 g/cc

Viscosity Range:

The High Capacity Ferret is recommended for liquids with kinematic viscosities up to 350 centistokes. Suitable liquids that may meet the viscosity recommendations are: gasoline, jet fuel, kerosene, fuel oil, diesel fuel, lightweight motor oils, and hydraulic fluids. Incompatible liquids include water soluble fluids such as cutting fluids

Controller:

*MPS 360 Electrical/Pneumatic Controller
*C100 Electronic/Pneumatic/Solar Controller

*For more technical data see the tech/data sheet for the MPS 360 and C100

The optional Float Screen kit may be installed on a HIWSFI12 Ferret pump to decrease cleaning frequency in wells with suspended grits and solids. Screen installation is not recommended for wells with bio-fouling (diesels, weathered fuels, etc.) of very viscous fluids because this may actually increase the service frequency required for cleaning.

1. Wrap screen around the float so that the edges do not terminate over the float's inlet slot.

2. Install C-clips to hold screen in place. C-clips install by spreading slightly and sliding them around the screen. Make sure the c-clips are within the grooves provided, this will ensure proper clearance within the well.

NOTE: When installing screen take caution to not move inlet tube.