







AP-57 Stage | Abatement Plan December 2006

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TEXACO NEW MEXICO "G" STATE BATTERY #22

ADDENDUM TO STAGE 1 ABATEMENT PLAN (AP-57)

DECEMBER 2006

HESS CORPORATION MONUMENT, NM

PREPARED BY:

BBC INTERNATIONAL, INC. WORLD-WIDE ENVIRONMENTAL SPECIALISTS 1324 W. MARLAND BLVD. HOBBS, NEW MEXICO 88240 (505)397-6388 • FAX (505)397-0397 EMAIL: amy@bbcinternational.com



PHONE (505) 397-6388 • FAX (505) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

VIA FEDERAL EXPRESS AIRBILL NUMBER: 7911 9711 4476

December 21, 2006

Mr. Edward Hansen New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

SUBJECT: ADDENDUM TO STAGE 1 ABATEMENT PLAN (AP-57) TEXACO NEW MEXICO "G" STATE BATTERY #22

Dear Mr. Hansen:

On behalf of Hess Corporation, BBC International, Inc. respectfully submits the enclosed Addendum to Stage 1 Abatement Plan (AP-57).

If you have any questions, please do not hesitate to contact either myself at (505) 397-6388 or <u>Amy@bbcinternational.com</u> or Drew Hall at (432) 758-6713 or <u>drewhall@hess.com</u>.

Sincerely,

BBC International, Inc. Amv C⁄ Ruth

Environmental Scientist

AR:jg

cc: Drew Hall – Hess Corp. Randy Barnes – Hess Corp.

From: Origin ID: (505)397-6388 Cliff Brunson BBC INTERNATIONAL, INC 1324 W. MARLAND HOBBS, NM 88240	Ship Date: 22DEC06 ActWgt: 2 LB System#: 5947667/INET2500 Account#: S ******** REF:	
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1.0 INTRODUCTION

The subject site is located north of Monument, New Mexico in Lea County in Unit Letter N, of Section 19, Township 19 South, and Range 37 East. The site is an abandoned tank battery, which had an associated pit that was operated from the late 1930's to 1991. The contamination at the former battery site was due to historical operation of the battery and the associated pit, which occurred prior to unitization of the North Monument Grayburg San Andres Unit (NMGSAU) in 1991, when the battery was decommissioned.

The site is situated near the bottom of a small draw, which contains a small perennial waterway with several depressions that hold one to two feet of water on a seasonal basis. During rainfall events the waterway carries storm water down hill to the southeast towards Monument Draw and water pools in the depressions which can persist for up to a month. It is likely that this draw is an area of local recharge for the unconfined Ogallala aquifer underlying the site, because the ground water is shallow in the area (less than 30 feet below ground surface). The site is elevated in reference this perennial waterway and is approximately 100 yards from any significant, seasonal water course. The hydrocarbons at the surface of the site were heavily weathered and clearly very old, so it is unlikely that the limited amount of storm water running off of the site has impacted this waterway in recent years. No visual evidence (oil sheen or free oil) was found that indicated hydrocarbons had impacted this surface water. No impacts were evident to the flora and fauna associated with the draw, and the amphibians and invertebrates observed in the ponded water of the draw appeared to be healthy and were reproducing regularly, as the water levels allowed.

Site assessment and remediation activities were conducted at the abandoned Hess Corporation (Hess), formerly Amerada Hess Corporation, former operator of the Texaco New Mexico "G" State Battery No. 22 beginning in May 2006. Hess developed a generic plan to investigate and remediate locations within the NMGSAU that have historical contamination in the Monument area. The New Mexico Oil Conservation Division (NMOCD) approved this generic work plan on December 5, 2005. Site investigation and remediation at the site was conducted in accordance with this plan.

Hess retained BBC International, Inc. (BBC) to investigate, remediate, and manage the site activities at the location.

2.0 SITE INVESTIGATION AND EXCAVATION

Site investigation and remediation at the location began with excavation of the battery and associated pit on May 4, 2006 as shown in the Site Diagram (**Figure 1**).

On May 5, 2006, BBC collected two (2) soil samples from the site, near the center of the hydrocarbon impacted area, to determine the extent of near surface hydrocarbon impacts between the battery pad and pit. The soil sample taken southeast of the center, entitled South East 2', was collected 2 feet below ground surface (bgs) and the sample collect near the center, entitled Center East 3', was taken 3 feet bgs. Please refer to **Figure 2** for the location of all samples collected relative to the battery pad and associated pit. These samples were submitted to a laboratory and analyzed for total petroleum hydrocarbons (TPH), including speciation of gasoline range organics (GRO) and diesel range organics (DRO), chloride, benzene, toluene, ethylbenzene, and xylene (BTEX). None of the Constituents of Concern (COC) analyzed were detected above New Mexico Oil Conservation Division regulatory guidance in either sample, please see **Table 1** for summaries of all analytical data and **Appendix I** for all laboratory analytical reports.

On May 11, 2006, BBC personnel collected three (3) soil samples from the site, one to characterize excavated soils for disposal, and two to determine the extent of contamination in the open excavations. As soil sample was taken from the spoil pile in the center of the site, entitled G Lact Pile, and the analytical data for the sample indicated that the waste could be disposed of via landfarm (e.g. chlorides less than 1000 ppm). A soil sample was collected from 12 feet bgs in the bottom of the associated pit at the east end of the site, this sample was labeled G Lact NE Pit 12'. Data for the sample showed high TPH (greater than 5000 ppm) and chlorides were low, indicating that more soil should be excavated from the area underneath the associated pit. Another soil sample was collected from the soils under the former battery pad at 15 feet bgs on the west end of the site, which was labeled G Lact W Pit 15'. Data for the sample indicated that excavation had removed VOC and salts from the vadose zone to below regulatory guidance and excavation under the pad was ended.

After further excavation (three [3] additional feet) of the associated pit, two additional samples were collected from the area under the associated pit on May 22, 2006 to determine if the area had been adequately excavated. The samples were collected from the floor of the excavation at 15 feet bgs. A soil sample taken from the northeast portion of the excavation, labeled G Lact NE 15', showed elevated TPH (1,950 ppm) and low chlorides. The soil sample collected from the southeast portion of the excavation; labeled G Lact SE 15' had similar results indicating elevated TPH (771 ppm) and low chlorides. Due to the elevated TPH found in the excavation at 15 feet bgs, Hess determined that additional investigation with a drilling rig was required to determine if contaminants had impacted the ground water below the associated pit.

On behalf of Hess, BBC notified the NMOCD on May 31, 2006 of drilling and soil sampling to occur inside and within the immediate vicinity of the associated pit on June 5 and 6, 2006. However, due to an unforeseen circumstance, drilling was

rescheduled for June 6 and June 8, 2006, which the NMOCD acknowledged by email on June 5, 2006.

Drilling and soil sampling in proximity to the associated pit began on June 6, 2006 to delineate the lateral and vertical extents of hydrocarbon impact. Soil samples at each borehole were taken at 3 feet bgs, 5 feet bgs, at 5 foot intervals thereafter, and at the extent of boring. Headspace measurements using a photo ionization detector (PID) and chloride field screens were used to determine which samples qualified for laboratory analyses (e.g. the sample with highest results of field tests). The sample collected at the extent of boring was also submitted for laboratory analysis in each soil boring. The first soil boring was located in the center of the excavation for the associated pit at 15 foot bgs, this boring was labeled SB1. Hydrocarbon impact was found to extend from 15 feet bgs to the ground water at 22 feet bgs. Free oil was visually detected in most samples from the boring and hydrocarbons were detected in all samples with a PID. Nonaqueous phase liquid (NAPL) was present on the ground water within SB1. A ground water sample collected from SB1 was submitted to an analytical laboratory for chloride analysis only and which was found to be less than the regulatory guidance. A second boring, SB2, was placed northwest of SB1 outside of the associated pit. A soil sample collected from SB2 at 20 feet bgs was submitted for laboratory analyses and showed low TPH and chlorides SB2 was completed as a monitor well and renamed MW1. All drilling logs are located in Appendix IV.

Acting on behalf of Hess, BBC notified NMOCD of groundwater contamination found at the site, and stated that additional site investigation would be conducted including the additional soil boring, soil sampling, and installation of ground water monitor wells. On the same day, Mr. Wayne Price of the NMOCD directed Hess to submit a Stage 1 Abatement Plan to the Santa Fe office for approval. On behalf of Hess, BBC proposed to the NMOCD to backfill the associated pit excavation due to safety concerns and to install, develop, and sample ground water monitor wells surrounding the site. The NMOCD responded on July 10, 2006 approving backfill of the excavation and installation of monitor wells with the instruction that this exchange of correspondences would be included in the Stage 1 Abatement Plan. The electronic correspondence regarding this approval can be referenced in **Appendix V**.

On June 8, 2006, NMOCD granted Hess approval to proceed with the proposed work with several conditions including:

- All submitted documents would be identified with the OCD# AP-57;
- NMOCD would be notified of all activities at the site;
- Monitor wells would be installed, developed, and sampled pursuant to approved EPA/NMOCD methods;
- Findings, conclusions, and recommendations would be submitted in a Stage 1 Abatement Plan by July 31, 2006; and



• Legal location, depth to groundwater, name of operator, and name of county would be sent to the NMOCD.

As requested, BBC returned requested information for the legal location, depth to groundwater, name of the operator, and name of the county to the NMOCD on June 12, 2006.

With the approval of the NMOCD, BBC continued soil boring, soil sampling and monitor well installation on June 8, 2006. Soil boring SB3 was drilled east of SB1 outside of the associated pit. Two soil samples from SB3 were submitted for laboratory analyses which indicated significant hydrocarbon contamination at the ground water interface. As a result of the field testing results and the presence of NAPL on the ground water the boring was not completed as a monitoring well and was properly plugged and abandoned. Another soil boring was made south of SB3 in an effort to delineate the eastern extent of the NAPL. Five (5) soil samples collected from this boring were submitted for analytical laboratory analysis, which indicated chloride impacts near the surface and no hydrocarbon impacts. As a result of the field testing results which indicated minimal impacts this boring was converted to a ground water monitoring well, MW3. Another boring was placed south of MW3 and what was believed to be directly down gradient of the impacted area. Field testing results and visual observations resulted in this boring not being completed as a groundwater monitoring well, and was labeled SB4 (originally labeled MW4). Three (3) soil samples were submitted to the laboratory from SB4, which indicated chloride impact near the surface and hydrocarbon impacts were found at the water interface. Another boring made northeast of the site, and due to negative testing results the boring was converted to a ground water monitoring well, MW2. A soil sample collected from this boring at 20 feet bgs was submitted for analyses, which indicated that the well had not been impacted with hydrocarbons or chlorides.

On the morning of June 20, 2006, the NMOCD was notified that closing soil samples would be collected from the tank battery area including the battery excavation on June 21, 2006. A total of eleven (11) soil samples were collected from the floor of the excavation and all samples were below the regulatory guidance for TPH and chlorides and indicated that the battery pad site could be closed and backfilled.

Further investigation of the impacts surrounding the associated pit began at the east end of the site on July 10, 2006. Four (4) boreholes were drilled, three (3) of which were converted to monitor wells, and soil samples were collected from each soil boring. The soil sample submitted for analyses from MW4 at 22 feet bgs showed no soil impacts above the regulatory guidance. SB5 was placed west of MW4 and directly south of the associated pit. A soil sample from 25 feet bgs was submitted and was found to have elevated levels of TPH. MW5 was placed southwest of SB5. A soil sample submitted from MW5 at 25 feet bgs showed no hydrocarbon or chloride impacts above the regulatory guidance.



MW6 was placed northeast of MW4 and a soil sample submitted for laboratory analysis also showed no impacts. At this point Hess had installed six (6) ground water monitoring wells which adequately delineate the vertical and horizontal hydrocarbon and chloride impacts to soil underneath the associate pit and vadose zone investigation was ceased.

3.0 EXCAVATION BACKFILL

Upon reviewing the laboratory results for eleven (11) closing samples collected from the battery on June 21, 2006, the NMOCD issued a verbal approval on the afternoon of June 29, 2006 to backfill the battery excavation. Written notification confirming the backfill approval along with the scheduled date to commence backfilling was sent to NMOCD on June 30, 2006. Backfill of the battery excavation began on July 18, 2006, and was completed on July 20, 2006 with 2,780 cubic yards of soil. Site photographs can be viewed in **Appendix III**.

On July 7, 2006, NMOCD verbally approved a proposal to backfill the associated pit excavation due to safety concerns, with a one-foot clay liner installed 6 feet bgs. On July 10, 2006, BBC confirmed via email that the rim of the associated pit would be excavated 6 feet outward from the edge and 6 feet downward. The excavation would be backfilled with fine soils from 15 feet bgs to 6 feet bgs (to the base of the 6 foot by 6 foot rim), a one foot thick clay liner would be installed, and the remaining 5 feet would be backfilled with topsoil. Approval was returned by the NMOCD on July 11, 2006.

Excavation of the associated pit rim began on July 21, 2006 immediately followed by backfilling activities. Backfill of the associated pit was completed on August 10, 2006 with 2,076 cubic yards of fine soils from 15 feet bgs to 6 feet bgs, 264 cubic yards of clay from 5 feet bgs to 6 feet bgs, and 4,932 cubic yards of topsoil from the ground surface to 5 feet bgs. To characterize additionally excavated soils on July 27, 2006, a composite sample, labeled Burn Pit Rim Spoils, was taken from the stockpile of excavated soil from the south and east rim of the associated pit. Laboratory analyses showed that the material was suitable for landfarming.

4.0 GROUNDWATER INVESTIGATION

On June 19-20, 2006, BBC personnel purged and developed MW1, MW2, and MW3. All depth measurements were taken from the top of casing, and three (3) well bore volumes were purged from each well. At MW1, depth to water was measured at 22.31 feet and total depth of the well was 32.10 feet. At MW2, depth to water was measured at 21.42 feet and total depth of the well was 30.41 feet. At MW3, non-aqueous phase liquids were measured at a depth of 23.54 feet, depth to water was at 23.58 feet, and total depth of the well was 32.35 feet.



On July 19, 2006, BBC personnel purged and developed MW4, MW5, and MW6. All depth measurements were taken from the top of casing, and three (3) well bore volumes were purged from each well. At MW4, depth to water was measured at 26.62 feet and total depth of the well was 34.29 feet. At MW5, depth to water was measured at 29.45 feet and total depth of the well was 36.18 feet. At MW6, depth to water was measured at 23.23 feet and total depth of the well was 33.80 feet. The groundwater gradient trended to the southeast at 0.0013 ft/ft. See **Figure 3** for a groundwater gradient map.

BBC conducted low flow purging and sampling of MW1, MW2, MW4, MW5, and MW6 on August 23-24, 2006. MW3 was gauged; however the well was not sampled due to presence of non-aqueous phase liquids (NAPL). At MW3, depth to product was 19.76 feet from the top of casing and depth to water was 20.22 feet. All samples from the remaining monitor wells were submitted to a laboratory and analyzed for volatile organic compounds (VOC's), semi-volatile organic compounds (SVOC's), metals (including mercury), cyanide, anions, pH, and total dissolved solids (TDS). Laboratory results indicated that concentrations of VOC's and SVOC's for the five (5) monitor wells were non-detectable. Metals were within water guality standards according to 1991 New Mexico Water Quality Control Commission Regulations with the exception of manganese (Mn) content in MW4 of 1.57 ppm. Mercury (Hg) and cyanide levels were non-detectable in all monitor wells. Anions were within standards with the exception of the sample from MW6. Chlorides were present at 389 ppm and fluoride content was 2.18 ppm. pH in all monitor wells ranged between 6 and 8. TDS levels were within standards in all monitor wells with the exception of MW6 in which 1,690 ppm were present. See Figure 4 for a site diagram including analyte concentrations. A site diagram depicting estimated NAPL can be referenced in **Figure 5**. For original laboratory reports see **Appendix II**, for laboratory analytical summary tables see Table 2.

5.0 SURFACE OWNERSHIP

BBC conducted a one-mile radius search from the site of all known and registered surface owners. A review of the public tax rolls of Lea County, NM identified the name and addresses of the owners within one mile of the site. A diagram depicting the one-mile radius is found in **Figure 6**. A list of the surface owners can be found in **Appendix VI**.

6.0 ADDENDUM

As requested, this is an addendum to the Stage I Abatement Plan (AP-57) and addressed administrative and preliminary technical comments provided by the NMOCD in the letter "Re: Stage 1 Abatement Plan (AP-57) for the Texaco New Mexico "G" Battery #22 Unit Letter N, Section 19, T19S, R37E, Lea County, New Mexico", dated November 1, 2006. This letter can be referenced in **Appendix V**.



1. Please describe in detail the nature of the release; i.e., describe what was released from where and when at the site. Also, please include in the Stage I Abatement Plan the Form C-141 for this site.

Environmental contamination at the site is historical in nature. The release(s) of contaminants occurred while the battery was in operation, prior to 1991, and records do not exist that catalog the amount, substance, date or frequency of releases. A Form C-141 for the site is attached, and can be found in **Appendix VII**.

2. Provide additional information regarding the volume of material excavated of both the G Lact Pile and the Burn Pit Rim Spoils and the landfarm(s) where the material was disposed. Also, please provide additional information regarding the depth to which the Battery Area was excavated and the landfarm(s) where the material was disposed.

The G Lact Pile was comprised of soil excavated from the west end of the Battery Area and the Associated Pit. The Associated Pit was excavated to a depth of 15 feet below ground surface (bgs), from which approximately 1,986 cubic yards of soil was excavated and hauled to C&C Landfarm in Monument, New Mexico (NM). The rim of this pit was later excavated to install the clay liner. The soil from this excavation (Burn Pit Rim Spoils) totaled 200 cubic yards. A portion of these soils, 95 cubic yards, was contaminated material and was hauled to J&L Landfarm near Monument, NM. The remaining uncontaminated soil was used to restore the road adjacent to the site, which was removed during excavation. The Tank Battery Area consisted of a deeper excavation where the tanks were historically located (Battery Excavation) that was approximately 15 feet bgs near its center, and a second excavation, approximately 1 to 2 feet bgs, that surrounds the Battery Excavations and hauled to C&C Landfarm.

3. Regarding the backfilling: this was represented to the Division as an emergency situation and you were proceeding at risk. Please indicate the purpose of the clay liner. Provide the hydraulic conductivity and the source of the material used for the clay liner. Also, provide the source of the material for backfilling the Battery Area Excavation and the Associated Pit Excavation.

As approved by Wayne Price, the associated pit was further excavated to ensure that the clay liner would cover the entire source area of contamination at the associated pit, back filled, capped with a 1-foot thick clay liner 5 feet bgs, and backfilled to the existing grade with top soil. As represented to the NMOCD, this was approved by the NMOCD and executed by Hess due to safety concerns associated with the shear walls of the excavation and the instability of the soils. The purpose of the clay liner is to prevent further migration of contaminants left in the vadose zone from 15 bgs to the water table (approximately 8 feet) until a



remedy is selected for the site during the Stage 2 portion of the abatement process.

The clay used for constructing the liner was excavated from land within the boundaries of C&C landfarm in Monument, NM owned and operated by Jim Cooper. The average permeability of the clay used for the liner is 9.85×10^{-07} cm/sec. Permeability test results can be viewed in **Appendix VIII**.

The material used to backfill the Battery Area Excavation was excavated from a caliche pit in Monument, NM also owned by Jim Cooper. Topsoil used to cap the Battery Area Excavation is native soil excavated near the same caliche pit.

Several materials were used to backfill the Associated Pit Excavation. Soil purchased from Wallach Concrete near Eunice, NM was used to fill the Associated Pit Excavation from 15 feet below ground surface (bgs) to 6 feet bgs. Topsoil used to cap the Battery Area Excavation is native soil excavated near the caliche pit in Monument, NM owned by Jim Cooper.

4. Please indicate in Table 1 if the soil samples labeled, "MW-4", are from the currently labeled borehole, SB-4. Also, please correct the sample date from "6/12/06" to 6/8/06 for these corresponding samples. In addition, please indicate in Table 1 if the soil sample labeled "SB-2" is from the currently labeled monitoring well, MW-1.

The soil samples labeled "MW-4" are from the borehole currently labeled SB-4 and are now referenced in Table 1. The sample date has been corrected to read 6/8/06. Also, the soil sample labeled "SB-2" is from the currently labeled monitoring well, MW-1, and is now referenced in Table 1.

5. Please include a brief description of the Ogallala Aquifer specific to the site, including hydraulic conductivity, probable aquifer thickness at the site, and an estimated velocity of ground water flow (these values may be obtained from regional hydrologic studies).

The water needs of southern Lea County are provided almost entirely by ground water from three major aquifers. The deeper Triassic rocks of the Dockum group provide only a small portion. The shallower Tertiary Ogallala and the Quaternary alluvium provide the main source of water. In areas where the Ogallala has eroded, Quaternary alluvium was deposited and the two aquifers are essentially contiguous in nature.

The site is located just off the southern edge of the High Plains. Along this edge, ground water transitions from the Ogallala formation to the Quaternary alluvium which underlies the Laguna Valley. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet, and the water bearing zone approximately one mile north of the site is 67 feet to 108 feet. As

this site is within the boundaries of the Laguna Valley, the saturated thickness of the sediments at the site are approximately 15 feet to 30 feet with the water table at about 30 feet below ground surface. Hydraulic conductivity at the site is fairly significant due to the prevalence of sandy alluvial soils. The estimated sustained yield of wells in the area of the site is approximately 385 gallons per minute. The ground water gradient is 0.0013 ft./ft. to the southeast.

6. Also, provide an inventory of water wells within one mile of the site; especially those wells that could be potentially impacted by the release (these well locations may be obtained from the website of the Office of the State Engineer: http://iwaters.ose.state.nm.us:7001/iWATERS/).

An inventory of water wells located within one mile of the site can be found in **Appendix IX**. These well locations were obtained from the website of the Office of the State Engineer and the US Geological Survey website. There are no wells located down gradient and in close proximity to the site, which could be impacted in the reasonably foreseeable future (e.g. within ¼ mile down gradient).

7. MW-4 and MW-6, the most down gradient monitoring wells indicate concentrations above the apparent background concentrations for various constituents (and also above the numeric ground water protection standard). Please include an east-west geological cross-section of the site and a north-south geological cross-section of the associated pit area. The cross-sections should include concentration isopleths for constituents of concern. Also, please include a site plan map with concentration isopleths for constituents of concern.

Dissolved phase data from well MW-6 shows a single analyte above NMAC 20.6.2.3103 standards that is likely due to oil field operations. Due to lack of available data for constituents of concern exceeding regulatory standards, concentration isopleth maps can not be provided at this time; however, should additional data for analytes above the respective regulatory standard become available in the future Hess will provide the requested maps.

Please note that the occurrence of manganese above regulatory standards in MW-4 is not likely due to oil field operations at the site, or as a result of reducing conditions that could be caused by anaerobic degradation of volatile organic compounds in the subsurface or ground water. The presence of dissolved phase sulfate in well MW-4 indicates that the reduction-oxidation conditions in the well would not likely result in manganese reduction, which could lead to the mobilization of native manganese that may be present in the soil.

8. Please include a groundwater monitoring plan that will be conducted as part of the Stage I Abatement Plan, including which monitoring wells will be sampled, which parameters will be analyzed, and at what frequency. The monitoring plan must include the sampling of ground water in monitoring wells

even if NAPL is present. Also, please submit the ground water monitoring well construction diagrams for each well installed at the site.

All six ground water monitoring wells will be sampled quarterly for benzene, ethylbenzene, toluene, and xylenes (BTEX), and chlorides with annual reporting until the Stage II Abatement Plan is approved. Hess Corporation contests the necessity to sample ground water monitoring wells in which NAPL is present on the basis of unorthodox technical methodology; however, MW-3 will be sampled for TPH, Semi-volatile Organic Carbons, Volatile organic Carbons, general chemistry, and chlorides for the purpose of initial characterization, as dictated by the NMOCD. Although, subsequent samples collected from MW-3 will only be for constituents of concern detected during the initial characterization in concentrations above the respective regulatory standards. Groundwater monitoring well construction diagrams and drilling logs are enclosed in **Appendix** *IV*.

9. Provide a schedule for further site investigation activities. Specifically, in the central portion of the Tank Battery Area there were TPH concentrations exceeding OCD's recommended remediation level of 100 mg/Kg (e.g., soil sample points: #4, #5, and #8) for this site. Also, in the area of the Associated Pit, TPH concentrations greater than the recommended remediation level were detected. Please indicate what further investigation will be conducted to delineate the TPH concentrations in these areas.

No further vadose zone investigation is planned at this time. Included in **Appendix V** is the written confirmation of approval by the local NMOCD office allowing closure of the vadose zone impacted portions of the site, specifically the Tank Battery Area.

10. In addition, elevated concentrations of chloride were detected in SB-3, SB-4, and MW-3. Please indicate what further investigation will be conducted to delineate the chloride concentration in the vadose zone in the area of the Associated Pit.

No further vadose zone investigation is planned at this time. Data available shows that chloride impacts are isolated to the upper 10 feet below ground surface and does not pose a significant risk of impacting groundwater, due to the low concentrations present in the soil. In addition to vertical delineation, data shows that vadose zone chloride impacts do not extend beyond the perimeter of ground water monitoring wells.

11. Additional groundwater monitoring (e.g., MW-3) must be conducted to delineate the ground water contamination. This may also require additional ground water monitoring wells to be installed at the site (e.g., down gradient of MW-6).



As discussed in item #8, Hess Corporation objects to sampling well MW-3; however, as dictated by the NMOCD, well MW-3 was sampled for the purpose of initial characterization. Further samples collected from well MW-3, on a quarterly basis, will only include constituents of concern that were detected above the respective regulatory standards. Laboratory results show that mercury is non-detect, manganese is present a 2.18 parts per million (ppm), semivolatiles (SVOC's) and volatiles (VOC's) are non-detect, fluoride is present at 2.13 ppm, cyanide is non-detect, pH is 6.96, and total dissolved solids are present at 526 ppm. Laboratory analyticals can be viewed in **Appendix II** and a summary of laboratory analytical data can be found in **Table 2**.

At this time additional ground water monitoring wells are not planned for the site because the detection of chloride in well MW-6 is close to the regulatory standard. Should dissolved phase data from well MW-6 show increasing concentrations of constituents of concern that may indicate further migration of constituents off site, Hess will evaluate the quarterly data collected from the well and if increasing concentrations are observed for more than 2 consecutive quarters, Hess will install additional ground water monitoring wells as needed to adequately delineate the lateral extent of the dissolved phase plume.

12. Provide the "survey" that was referenced in the letter from the abstract company that obtained the addresses of the surface owners.

It was not made clear in correspondence from the abstract company; although, the referenced "survey" is provided in the Stage I Abatement Plan as Figure 6.

7.0 ABATEMENT PROCESS

On behalf of Hess, BBC has submitted this Stage 1 Abatement Plan (AP-57) in accordance with NMOCD Rule 19 NMAC 15.1.19. Upon receipt of the NMOCD deeming the Stage 1 Abatement Plan administratively complete, Hess will create and publish a NMOCD approved public notice according to Rule 19 requirements.



TABLE 1

Soil Laboratory Analytical Results Summary

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.

Table 1. Soil Laboratory Analytical Results Summary

		Sample	South East	Center Eas 3'
Analyte Method		Date		
			mg/Kg	mg/Kg
Benzene	S 8021B	05/05/06	<0.005	<0.005
Toluene	S 8021B	05/05/06	<0.005	<0.005
Ethylbenzene	S 8021B	05/05/06	<0.005	<0.005
Total Xylenes	S 8021B	05/05/06	<0.015	<0.015
Chloride	4500-CI ⁻ B	05/05/06	<8	48
GRO	SW-846 8015 M	05/05/06	<10.0	<10.0
DRO	SW-846 8015 M	05/05/06	<10.0	<10.0

		Sample	G Lact Pile	G Lact NE Pit 12'	G Lact W Pit 15'
Analyte	Method	Date			
			mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	05/11/06	<0.005	<0.005	<0.005
Toluene	S 8021B	05/11/06	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	05/11/06	0.010	0.018	<0.005
Total Xylenes	S 8021B	05/11/06	0.076	0.089	<0.015
Chloride	4500-CI'B	05/11/06	16	192	32
GRO	SW-846 8015 M	05/11/06	51.3	73.6	<10.0
DRO	SW-846 8015 M	05/11/06	379	5400	52.3

			G Lact NE	G Lact SE 15'
Analyte	Method	Date		
			mg/Kg	mg/Kg
Benzene	S 8021B	05/22/06	<0.005	<0.005
Toluene	S 8021B	05/22/06	<0.005	<0.005
Ethylbenzene	S 8021B	05/22/06	<0.005	<0.005
Total Xylenes	S 8021B	05/22/06	<0.015	<0.015
Chloride	4500-CI ⁻ B	05/22/06	176	192
GRO	SW-846 8015 M	05/22/06	<10.0	<10.0
DRO	SW-846 8015 M	05/22/06	1950	771

		Sample	G Lact SB2 20 Currently SB1
Analyte	Method	Date	
			mg/Kg
Benzene	S 8021B	06/07/06	<0.005
Toluene	S 8021B	06/07/06	<0.005
Ethylbenzene	S 8021B	06/07/06	<0.005
Total Xylenes	S 8021B	06/07/06	<0.015
Chloride	4500-CI ⁻ B	06/07/06	*16
GRO	SW-846 8015 M	06/07/06	<10.0
DRO	SW-846 8015 M	06/07/06	41.2



* Note: Analysis perormed on a 1:4 w:v aqueous extract

		Sample	, SB3-5'	SB3-20'	MW-3-3'	MW-3-5'	MW-3-10"	MW-3-20'	MW-3-25"
Analyte	Method	Date							
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/08/06	<0.002	<0.010	<0.002	< 0.002	< 0.002	<0.002	< 0.002
Toluene	S 8021B	06/08/06	<0.002	*1.212	<0.002	<0.002	<0.002	<0.002	< 0.002
Ethylbenzene	S 8021B	06/08/06	<0.002	*0.574	<0.002	<0.002	<0.002	<0.002	<0.002
Total Xylenes	S 8021B	06/08/06	<0.006	*3.609	<0.006	<0.006	<0.006	<0.006	<0.006
Chloride	4500-CI ⁻ B	06/08/06	768	32	1520	448	304	16	16
GRO	SW-846 8015 M	06/08/06	<50.0	2500	<50.0	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	06/08/06	<50.0	13200	<50.0	<50.0	<50.0	<50.0	<50.0

		Sample	MW-4-3 Currently SB4	MW-4-5 Currently SB4	MW-4-10 Currently SB4	MW-2-20'
Analyte	Method	Date				
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/08/06	<0.002	< 0.002	<0.002	<0.002
Toluene	S 8021B	06/08/06	<0.002	< 0.002	<0.002	<0.002
Ethylbenzene	S 8021B	06/08/06	<0.002	<0.002	<0.002	<0.002
Total Xylenes	S 8021B	06/08/06	<0.006	<0.006	<0.006	< 0.006
Chloride	4500-CI ⁻ B	06/08/06	576	960	480	16
GRO	SW-846 8015 M	06/08/06	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	06/08/06	<50.0	<50.0	<50.0	<50.0

*Results should be considered as estimates due to high pertoleum hydrocarbon background interference.

		Sample	, <u>1</u> , 14', ,	26'	3 4'	4 1'	5 1'	62'	7 1'
Analyte	Method	Date							
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	06/21/06	<0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	<0.005
Total Xylenes	S 8021B	06/21/06	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Chloride	4500-CI ⁻ B	06/21/06	32	16	<16	<16	16	<16	16
GRO	SW-846 8015 M	06/21/06	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	06/21/06	14.5	<10.0	45.1	117	260	22.2	11.2

		Sample	8 1'	9 1'	10 2'	11 2'
Analyte	Method	Date				
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	06/21/06	<0.005	<0.005	<0.005	<0.005
Toluene	S 8021B	06/21/06	<0.005	<0.005	< 0.005	<0.005
Ethylbenzene	S 8021B	06/21/06	<0.005	<0.005	<0.005	< 0.005
Total Xylenes	S 8021B	06/21/06	<0.015	<0.015	<0.015	<0.015
Chloride	4500-CI ⁻ B	06/21/06	<16	80	16	80
GRO	SW-846 8015 M	06/21/06	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	06/21/06	317	91.1	11.4	<10.0



Table 1. Soil Laboratory Analytical Results Summary

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		Sample	MW 4-22'	SB 5-25	MW 5-25'	MW 6-22'
Analyte	Method	Date				
	i		📉 mg/Kg 🕓	mg/Kg 🕺	mg/Kg	mg/Kg
Benzene	S 8021B	07/10/06	< 0.005	< 0.005	<0.005	<0.005
Toluene	S 8021B	07/10/06	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	07/10/06	< 0.005	0.025	< 0.005	< 0.005
Total Xylenes	S 8021B	07/10/06	<0.015	0.346	<0.015	<0.015
Chloride	4500-CI'B	07/10/06	48	48	32	32
GRO	SW-846 8015 M	07/10/06	<10.0	201	<10.0	<10.0
DRO	SW-846 8015 M	07/10/06	<10.0	1140	<10.0	<10.0

		Sample	Burn Pit Rim Spoils
Analyte	Method	Date	
			mg/Kg
Benzene	S 8021B	07/27/06	<0.005
Toluene	S 8021B	07/27/06	<0.005
Ethylbenzene	S 8021B	07/27/06	<0.005
Total Xylenes	S 8021B	07/27/06	<0.015
Chloride	4500-CI ⁻ B	07/27/06	*160
GRO	SW-846 8015 M	07/27/06	<10.0
DRO	SW-846 8015 M	07/27/06	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract





TABLE 2

Groundwater Laboratory Analytical Results Summary

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.

Table 2. Groundwater Laboratory Analytical Results Summary

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	······	G Lact	G Lact	G Lact	G Lact	G Lact	G Lact
		MW/1	MW2	MW5	MW4	MW6	MW3
		8/23/06	8/23/06	8/24/06	8/24/06	8/24/06	12/7/06
Analyte	Method	Sample :	Sample :	Sample :	Sample :	Sample :	Sample :
	incentra	ma/l	ma/l	ma/l	0008511-04	0006511-05	ma/l
Total Mercury	SW/7470	ND	ND	ND	ND	ND	ND
	0001410						
		mall	mail	mall	77 	mall	mall
Aluminum	SW/6020	ND	ND	ND	ND	ND	ND
Arsonic	SW/6020	0.00509	0.00636		0.00551	0.00956	0.03100
Barium	SW6020	1 101	0.00000	0.0732	0.00001	0.00000	0.00100
Boron	SW6020	0.220	0.100	0.0158	0.110	0.0022	0.201
Cadmium	SW6020	ND		ND		ND	ND
Chromium	SW6020		ND	ND			ND
Cobalt	SW6020						ND
Copper	SW6020				ND	0.0161	
Iron	SW6020		ND	ND			0.767
Lead	SW6020		ND	ND	ND	ND	ND
Manganese	SW6020	0.00779			1.57		2.18
Molybdenum	SW6020	ND	ND	ND	0.00668	ND	0.0149
Nickel	SW6020	ND	ND	ND	ND	ND	0.00856
Selenium	SW6020	ND	ND	ND	ND	ND	ND
Silver	SW6020	ND	ND	ND	ND	ND	ND
Uranium	SW6020	0.00532	ND	0.00596	0.00797	0.00775	
Zinc	SW6020	0.00818	0.00898	0.00836	0.00540	0.00600	ND
					0100010	0.00000	
		jua/L	ua/L	ua/L	ua/L	ua/L	ua/L
1.2.4.5-Tetrachlorobenzene	SW8270	ND	ND	ND	ND	ND	ND
1,2-Diphenylhydrazine	SW8270	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene	SW8270	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	SW8270	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	SW8270	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	SW8270	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	SW8270	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	SW8270	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	SW8270	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	SW8270	ND	ND	ND	ND	ND	ND
2,6-Dichlorophenol	SW8270	ND	ND	ND	ND	ND	ND
2-Chiorophenol	SW8270	ND	ND	ND	ND	ND	ND
2-Methylnaphtalene	SW8270	ND	ND	ND	ND	ND	ND
2-Methylphenol	SW8270	ND	ND	_ND	ND	ND	ND
2-Nitrophenol	SW8270	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	SW8270	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	SW8270	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	SW8270	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	SW8270	ND	ND	ND	ND	ND	ND
4-Nitrophenol	SW8270	ND	ND	ND	ND	ND	ND
Acenaphthene	SW8270	ND	ND	ND	ND	ND	ND
Acenaphthylene	SW8270	ND	ND	ND	ND	ND	ND
Anthracene	SW8270	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	SW8270	ND	ND	ND	ND	ND	ND



Table 2. Groundwater Laboratory Analytical Results Summary



		G Lact					
	·	MW1	MW2	MW5	MW4	MW6	MW3,
	ļ	8/23/06	8/23/06	8/24/06	8/24/06	8/24/06	12/7/06
Analyte	Method	Sample : 0608511-01	5ample : 0608511-02	Sample : 0608511-03	Sample : 0608511-04	Sample : 0608511-05	Sample : 0612163-01
Benzidine	SW8270	ND_	ND	ND	ND	ND	ND
Benzo(a)pyrene	SW8270	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	SW8270	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	SW8270	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	SW8270	ND	ND	ND	ND	ND	ND
Bis(2-chloroethy)ether	SW8270	ND	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	SW8270	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	SW8270	ND	ND	ND	ND	ND	ND
Chrysene	SW8270	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	SW8270	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	SW8270	ND	ND	ND	ND	ND	ND
Diethyl phthalate	SW8270	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	SW8270	ND	ND	ND	ND	ND	ND
Fluoranthene	SW8270	ND	ND	ND	ND	ND	ND
Fluorene	SW8270	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	SW8270	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	SW8270	ND	ND	ND	ND	ND	ND
Hexachloroethane	SW8270	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	SW8270	ND	ND	ND	ND	ND	ND
Isophorone	SW8270	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-butylamine	SW8270	ND	ND	ND	ND	ND	ND
N-Nitrosodiethylamine	SW8270	ND	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	SW8270	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	SW8270	ND	ND	ND	ND	ND	ND
N-Nitrosopyrrolidine	SW8270	ND	ND	ND	ND	ND	ND
Naphthalene	SW8270	ND	ND	ND	ND	ND	ND
Nitrobenzene	SW8270	ND	ND	ND	ND	ND	ND
Pentachlorobenzene	SW8270	ND	ND	ND	ND	ND	ND
Pentachlorophenol	SW8270	ND	ND	ND	ND	ND	ND
Phenanthrene	SW8270	ND	ND	ND	ND	ND	ND
Pyrene	SW8270	ND	ND	ND	ND	ND	ND
· · · · · · · · · · · · · · · · · · ·		hð/F	µg/L	····μg/L°···	µg/L	hg/L	ti i të shekar të shekar 1995 - Takar të shekar të s
1,1,1-Trichloroethane	SW8260	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	SW8260	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	SW8260	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ISW8260		ND	ND	ND	ND	ND
1,1-Dichloroethene	SW8260			ND		ND	ND
1,1-Dichloropropene	SW8260				ND	ND	ND
1,2-Dibromoethane	SW8260			ND	ND	ND	ND
1,2-Dichlorobenzene	SW8260	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	15W8260						ND
Acrolein	ISW8260						
Acrylonitrile	ISW8260						
Benzene	ISW8260				ND	ND	ND
Bromodichloromethane	SW8260						ND
Bromomethane	ISW8260		ND	ND ND		ND	ND



Table 2. Groundwater Laboratory Analytical Results Summary



		G Lact MW1	G Lact MW2	G Lact MW5	G Lact MW4	G Lact MW6	G Lact, MW3
		8/23/06	8/23/06	8/24/06	8/24/06	8/24/06	12/7/06
Analyte	Method	Sample : 0608511-01	Sample : 0608511-02	Sample : 0608511-03	Sample : 0608511-04	Sample : 0608511-05	Sample : 0612163-01
Carbon tetrachloride	SW8260	ND	ND	ND	ND	ND	ND
Chlorobenzene	SW8260	ND	ND	ND	ND	ND	ND
Chloroform	SW8260	ND	ND	ND	ND	ND	ND
Chloromethane	SW8260	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	SW8260	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	SW8260	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	SW8260	ND	ND	ND	ND	ND	ND
Ethylbenzene	SW8260	ND	ND	ND	ND	ND	ND
m,p-Xylene	SW8260	ND	ND	ND	ND	ND	ND
Methylene chloride	SW8260	ND	ND	ND	·ND	ND	ND
o-Xylene	SW8260	ND	ND	ND	ND	ND	ND
Tetrachloroethene	SW8260	ND	ND	ND	ND	ND	ND
Toluene	SW8260	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	SW8260	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	SW8260	ND	ND	ND	ND	ND	ND
Trichloroethene	SW8260	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	SW8260	ND	ND	ND	ND	ND	ND
Vinyl chloride	SW8260	ND	ND	ND	ND	ND	ND
		mg/L	mg/L	mg/L	mg/L	.∵mg/L	∕ mg/L
Chloride	E300	116	11.6	170	99.8	389	109
Fluoride	E300	0.709	0.827	0.793	1.16	2.18	2.13
Sulfate	E300	95.6	13.1	97.0	62.9	489	17.4
Nitrate-Nitrite (as N)	E300	1.22	2.46	4.08	ND	7.49	1.02
			A	To Variation of Providence	An I Am A Manual I		
		mg/L	mg/L	mg/L	mg/L	mg/L	∽ mg/L∴
Cyanide	E335.3	ND	ND	ND	ND	ND	ND
		a an	THE REAL PROPERTY AND A DESCRIPTION OF A DE	1. I day IT & Same To be 10.	2 E Martine A and All Mark		Samo Parks
	50544	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Nitrogen, Nitrite		ND	ND	ND	ND	0.438	
				ser internet	2	「こうでのない」	2001-012-8240-6636
n.Ll		PH units	pH units	pH units	pH units	pH units	pH units
<u>рп</u>	150.1	0.00	1.03	0.81	0.82	1.02	0.90
	+	-	N melles	mell	1 month	S. Manaka	and the second
Total Dissolved Solids	E160 1	7/0	250	70/L	6/6	mg/L 1600	526
		140	239	1 94	040	1090	520
		I		L	L	L	





TABLE 3

LNAPL and Groundwater Elevation

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Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



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MONITORING WELL	TOP OF CASING	DATE	DEPTH TO GROUNDWATER	DEPTH TO LNAPL	LNAPL THICKNESS	CORRECTED GROUNDWATER
MW-1	3656.47	8/23/2006	20.68	ND	0.00	3635.79
MW-2	3654.85	8/23/2006	18.22	ND	0.00	3636.63
MW-3	3656.43	8/23/2006	20.22	19.76	0.34	3636.55
MW-4	3659.16	8/23/2006	23.83	ND	0.00	3635.33
MW-5	3662.34	8/23/2006	27:64	ND	0.00	3634.70
MW-6	3655.85	8/23/2006	19.25	ND	0.00	3636.60

APPENDIX

Soil Laboratory Analytical Results

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 05/05/06 Reporting Date: 05/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT UNIT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/05/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	$(C_{6}-C_{10})$	(>C ₁₀ -C ₂₆)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/09/06	05/09/06	05/08/06
H11093-1 SOUTH EAST 2	<10.0	<10.0	<8
H11093-2CENTER EAST 3'	<1 <u>0.0</u>	<10.0	48
	-	· · ·	
and a second		· · · · · ·	
Quality Control	807	737	500
True Value QC	800	800	500
% Recovery	101	92.1	100
Relative Percent Difference	2.9	4.1	4.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w/v aqueous extracts.

Jess Ja. Cooli

5/10/06

H11093A



PLEASE NOTE: Liability and Damages. Cardinal's leading and clearl's exclusive remedy for any stam anong, whether based at contract or fort, shall be limited to the anount part by clearly analytics. At clears, inclusing these for regispence and any other cause whether be depred warved unless made in writing and received by Cardinal when they (30) days after complexes of the application approach in no event shall Cardinal be table to incidental or consequential damages, including, without institution, business to the state of the application of the application athlates or outcessors arising out of problem of the performance of services hereinder by Cardinal, regardless of whether tach claim is based upon any of the above stated rescence or otherwate



PHONE (505) 393-2326 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 05/05/06 Reporting Date: 05/10/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT UNIT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/05/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/09/06	05/09/06	05/09/06	05/09/06
H11093-1 SOUTH EAST 2'	<0.005	<0.005	<0.005	<0.015
H11093-2 CENTER EAST 3	<0.005	<0.005	<0.005	<0.015
	· · · · · · · · · · · · · · · · · · ·	3 2 δι • • • • • • • • • • • •	1 L	
		· ·	~~ ~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
ಲ್ ಹೆಸ್ •≎ಕ್ ಎಂ ಹೆಸ್ಟಾಂಗಿ ಹಂಬರಿ	Prove Prove to a second		k w v •⊷•• v v	
Quality Control	0.095	0.092	0.092	0.277
True Value QC	0.100	0.100	0.100	0.300
% Recovery	95.0	92.4	92.0	92.3
Relative Percent Difference	0.6	0,5	1.6	6.1

METHOD: EPA SW-846 8260

yes Alcooke

5/10/06



PLEASE NOTE Linbility and Damages. Cardinal's subsity and digen's erclusive remedy for any claim absing, whether bived in contract or tort, shall be bin adding the annount paid by clear for analysis. All change, and they pose for negligible and any other cause whatsoever shall be Beemed waived onless made in writing and racewood by Cardinal watch binty (30) dave alter completion of the representation analysis service. In reperforming Cardinal be leade for incidential or concernment damages, including, without tareface, depression advertised or lass of profile meaned by Clerk, its advertise any accessors ausing cardinal be leader to the performance of terraces bermaneler by Cardinal, regardless or water such each of or related to the above-failed reasons or otherwise

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CHAIN-OF-CUSTC obbs, NM 88240 505) 393-2478	20.# 45-157156 Company: Annerada Hoss Company: Annerada Hoss Company: Annerada Hoss Company: Annerada Hoss Company: Banday Barnes Chloride	is a barrier of the second publicly in durit is up to the second publicly in durit is up to the second publicly in durit is up to the second public second to the second s	ULTON 37 21. TAN TON 10. 14 14 14 14 14 14 14 14 14 14 14 14 14	CHECKED BY: CHECKED BY: (InHale) 7). 4
BORA TORIES, INC. , Abilene, TX 79603 101 East Mariand, H Fax (915) 673-7020 (505) 393-2326 Fax	Thernardional Itarianal Contractional Itarianal Contractonal Itarianal Contractonal Itarianal Suno. NM Zlp: 87 Fax #: 505-397-0397 Contracton C	הן, האז איזערעע בעירע גערעע גערעע איזערען גערעע ג איזערעע גערעע ג	Done of severe hereonor of Cardina, revident is meeting and the severe hereonor of Cardina, revident of By: Date: Time:	Darey Received By: (Lab 519H) Time: 24 Strue Sample Condition 24 Strue Sample Condition Cool Invact Cool Invact Cool Invact Sal changes. Ploaso fax written changes to 505-
ARDINAL LA	Compary Name: B1871 I Project Manager: CI:11 B Aduracas: 1324 LJ. N City: Habbs Project = MCNUM Obes Project News: 505-397-63 Project News: 505-397-63 Project News: 505-397-63 Project News: 505-397-63 Project Leab LD. Samp Lab LD. Samp Multi Charles Control Multi Control Conter Eddi	ונינון איז	I was lot a marked and the was wranted and the set of t	Railingulshed by: Dolivered By: Ioircle Onen Sampler - UPS - Bus - Other: † Cardinal cannot accept verb

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PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 05/12/06 Reporting Date: 05/16/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/11/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

		GRO	DRO	
		$(C_6 - C_{10})$	(>C ₁₀ -C ₂₈)	Ci*
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	ATE	05/12/06	05/12/06	05/12/06
H11110-1	G LACT PILE	51.3	379	16
H11110-2	G LACT NE PIT 12'	73.6	5400	192
H11110-3	G LACT W PIT 15	<10.0	52.3	32
Quality Contr	ol	784	773	510
True Value Q		800	800	500
% Recovery		98.0	96.6	102
Relative Perc	ent Difference	3.1	0.4	1.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

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Larry L. Bailey

5/16/06

Date

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PLEASE NOTE: Liability and Damages. Cardinal's labidity and client's exclusive remothy for any claim ansard, whether bareo in contract or fort, shall be knowed to the ansard paol by cleant like inverses. At cleans, including index for adgreed and any other cause whetecomer shall be deemed wared unless made in writing and received by Cardinal within finity (34) days after completion of the applicable service. In no event shall be table for includential or consequential damages, including, without languation, business interruptions, loss of use, or loss of profile included by client, its subsciential, alternets or successors anoing out of or tealed to the performance of services bereunder by Cardinal, regardless of whether such claim is bared upon any of the above stated in claims or particulated by client, its subscience, a subscience of services bereunder by Cardinal, regardless of whether such claim is bared upon any of the above stated reasons or otherwise.



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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 05/12/06 Reporting Date: 05/16/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 05/11/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	ATE	05/12/06	05/12/06	05/12/06	05/12/06
H11110-1	G LACT PILE	<0.005	<0.005	0.010	0.076
H11110-2	G LACT NE PIT 12'	<0.005	<0.005	0.018	0.089
H11110-3	G LACT W PIT 15	<0.005	<0.005	<0.005	<0.015
		and the second s			
Quality Contro		0.094	0.101	0.098	0.307
True Value QC		0.100	0.100	0.100	0.300
% Recovery	ner anna mar e finn na suit i ann i ar tu tu tu tu	93.4	101	97.9	102.0
Relative Perc	ent Difference	0.2	7.9	7.2	7.8

METHOD: EPA SW-846 8260

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Larry L. Bailey

5/16/06



PLEASE NOTE: Liability and Damages. Cardinal's leability and cleant's exclusive remedy for any claim arising, whether based in contrast or tort, shull be immed to the amount past by close for analyses. At claims, polydrap pase for negligence and any other cause whatspeed is allowed writed unless made in writing and teacted by Cardinal wither thery (30) days after completion of the applicable across Tinkin event Built Cardinal be lable for incidential or consequential almages, including, without Imitation, business interruptions, loss of use, or loss of profils lecured by cleant, its subschedules, affiliates or successors arising out of or resulted to the performance of services Percurder by Cardinal, regardines of whether such claim as based upon any of the above stated relations or approved

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 5 Page REQUES Add'l Phone #: Add'l Fax #: ANALYSIS °2 □□ RITEX Ś D Yes D Yes Hdl TOW SHOR 2 2 2 Stheride 2 NEXT ACTE Lakes and homeone. Or down haves and form used for any distribution that and the down have be and the form of the fo Fax Rueun: REMARKS: 4020m 210 2115 ATTN: Kanday BALACS 42 pm Company: Hurer add Hes TIME P.O. # 45-157151 SAMPLING Amerada Hessow Seminole BILL TO DATE È 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 CHECKED BY: (In/II)48) Zip: (505) 393-2326 Fax (505) 393-2478 2 N T PRESERV : ABHTO |State: 🕻 🗙 † Cardinal canhot accept yerbal changes. Please fax written changes to 505-393-2476. Address: 1000/90 Phono #: Fax #: -BSYEADION Sample Condition Cool Intact EY9a EY9a : SEHTO Received By: (Lab Staff) 22 sunde HATRIX CRUDE OIL SIZIE: NM ZIP: 88240 PHOND # 505-397-6388 Fax # 505-397-039 928ecu X nos 5 د ź The ABTAWBT2AM **АЭТА**W0И099 - ARDINAL LABORATORIES, INC. SHENIATHOD \$ (C) AND (C) AND (C) OMP. Ľ ন্য (915) 573-7001 Fax (915) 673-7020 International Project = MANUM CLES OD Project Owner: Lact Date: //. (N 1⁷l Brunson Marland Time: Smo: Sample I.D. (ONALMPRI runn State Ш え Samplar_UPS . Bus . Other: Circle Onc 2.0.5 1-22-1 BBC HMUN が ゴビ 3 Address: 1324 1 Project Manager: Project Name: 7 🎋 City: Habbs Project Location: Company Name: Sampler Name: ~ Relinquished By NUL ç4 Hiuto 1 Delivered B roy us us out Lab I.D

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PHONE (505) 353-2335 + 101 E MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 05/23/06 Reporting Date: 05/24/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT UNIT Project Location: MONUMENT, NM Sampling Date: 05/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC/AH

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	05/23/06	05/23/06	05/24/06
H11147-1 G LACT NE 15'	<10.0	1950	176
H11147-2 G LACT SE 15'	<10.0	771	192
Quality Control	778	763	480
True Value QC	800	800	500
% Recovery	97.3	95.4	96.0
Relative Percent Difference	3.5	7.5	3.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI': Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

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124/04

Date





PLEASE NOTE, Liability and Damages. Cardinal's hability and cleart's exclusive romady for any clear ansary, whether based in contract or fort, shall be emised to the amount paid by cleart for analysis. As claures, including those for negligence and any other churse whether becamed waived integs in analysis in white the section of the amount paid by cleart for analysis. Service in no event shall Cardinal be table for includent and consequentiat domages, including, whether lands in white particular based upon any other along on the approximation, business interruptions, loss of using out of a cardinal by prevent domages, including, whether lands in white participants, loss of use, or loss of profile the amount of the above shall be exclused by Cardinal, regardless of whether such clause is based upon any of the above shall be exclused and any the above shall be exclused by Cardinal, regardless of whether such claus is based upon any of the above shall be exclused to the resons or chievers.



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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 05/23/06 Reporting Date: 05/24/06 Project Owner: AMERADA HESS Project Name: TEXACO STATE G LACT UNIT Project Location: MONUMENT, NM Sampling Date: 05/22/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBE	R SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS D	DATE	05/24/06	05/24/06	05/24/06	05/24/06
H11147-1	G LACT NE 15'	< 0.005	< 0.005	<0.005	<0.015
H11147-2	G LACT SE 15'	<0.005	<0.005	<0.005	<0.015
	میرانمی باد باد باده است. اسی یا سی با با یا این اسی بینی استان از با بینی اسی اسی اسی اسی اسی استان با اسی اسی اسی اسی اسی اسی اسی اسی اسی اس	1 - View And Alexandry, Lynning, A. Characteria and Alexandry, Lynning, Alexandry, Lynn			
Quality Cont	rol	0.092	0.101	0.090	0.273
True Value C)C	0.100	0.100	0.100	0.300
% Recovery	and the second	92.1	101	90.3	91.1
Relative Percent Difference		2.3	7.6	1.0	1.2

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liability and Damages. Cardinal's leabuly and clear subspace ramedy for any claim analog, whether based in control, shall be limited to the amount part by client for limity-sea. An example, polyding, types for peripheren and any other chose whistower available element where invite a motion writing and received by Cardinal writer (30) days after consequential demony seales as service). This is write a motion to the related to the period writes made in writing and received by Cardinal writer (30) days after consequential demony seales as service). This is write a motion of the period write of the period write of the period write a motion of the period write by Cardinal write (30) days after consequential demony elements as abactuated, artifates or successors arising out of or related to the period write by Cardinal, regardless of writers using a bond way of the attended to the period write by Cardinal, regardless of writers arising out of or related to the period of the period write by Cardinal, regardless of writers arising out of or related to the period of the per



DY AND ANALYSIS REQUEST	Image: Second	No Atc: 1 Fix F: Atc: 1 Fix F:
пd, Hobbs, NM 88240 Fux (505) 393-2470	P.O. #. 45-157156 Company: Almer add desc Auto: Kandy Barnes Auto: Kandy Barnes Auto: Kandy Barnes Auto: Kandy Barnes Auto: Kandy Barnes Phono #: Phono #: P	Staff) Staff)
ARDINAL LABORATORIES, INC. 2111 Beechwood, Abilene, TX 79603 101 East Marian (915) 673-7001 Fax (915) 673-7020 (605) 393-2326	Company Name: 8'80 Triter in at lon al Ind. Prolact Manager: 1324 W. Mar land indires: 1324 W. Mar land indires: 1324 W. Mar land ing: Hobbs Project Manager: 1324 W. Ar land Project Manager: 1324 W. Ar land Project NoNLIM 66 53 and Project owner: Amer adait Project Nonthine 65 and Project owner: Amer adait Project Nonthine 66 and Project owner: Amer adait Project Land 1, D. Sample 1, Sample 1, D. Sample 1, Sample	A cardinal carries in the second of the seco

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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/06/06 Reporting Date: 06/07/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATT. 22 Project Location: MONUMENT, NM Analysis Date: 06/07/06 Sampling Date: 06/06/06 Sample Type: SOIL, GROUNDWATER Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: HM

LAB NO.	SAMPLE ID	(PPM)
H11195-1	G LACT SB2 20	*16
H11195-2	SB1 WATER	
		un es a la l
алан алан тарина талан тарина талан тал Талан талан тала		
Quality Cor		970
True Value	QC	1000
% Recovery	n na manana na katala na katal Y	97
Relative Pe	and a second of the second	
	rcent Difference	1.0
	rcent Difference	
ETHOD: Sta	andard Methods	4500-CI

*NOTE: Analysis performed on a 1:4 wiv aqueous extract.

1 gent Chemist

67-04 Ú Date

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PLEASE NOTE: Lability and Damages: Cardinal's hability and client's exclusive remedy by any claim arising, whether baded in contract or fort, shall be limited to the annount paid by client for analysis. All claims, including those (or nogligenee and any other cause whitiserver shall be deemed warved unless match in white) and records by Cardinal white herby (30) days other completion of the applicable service. In or oversist shall Cardinal by laber to include the consequenced demages, including, whether transform process regruptions, loss of uso, or local so of profiles of version and on performance of services hereaded by Cardinal, regardless of whether such claims is baded upon any of the above-stated relations or demages or enclusive for consequences hereaded by Cardinal, regardless of whether such claim is baded upon any of the above-stated relations of thermain



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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/06/06 Reporting Date: 06/07/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATT. 22 Project Location: MONUMENT, NM Sampling Date: 06/06/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: BC

		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/K g)	(mg/Kg)	(mg/Kg)	(mg/K g)

ANALYSIS DATE:	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06	06/06/06
H11195-1 G LACT SB2 20	<10.0	41.2	<0.005	<0.005	<0.005	<0.015
			1			4.00
3. Compared and the second se second second sec						
	an or a constant and an assessment to be a source on a source of a			A CALL OF A CALL		
	1.0.1 0.1.1 0.1.1 0.00 0.000 0.000 0.000 0.000 0.000 0.000 0.000				In the summaries are an approximately]
Quality Control	778	763	0.102	0.102	0.099	0.304
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	97. 3	95.4	102	102	98.9	101
Relative Percent Difference	3.5	7.5	1.8	1.7	1.1	1.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

6/1/06

Date



H11195A

PCEASE NOTE Liability and Damages. Cardinal's knowly and client's enclosive remedy for any claim online), whether based to contract in test, shall be larged to the amend to the amend by client for ansistes. At claims, including stose for neglegence and any other cause whatsdever shall be deemed waived unless made in writing and received by Cardinal writing (30) days after completion of the application service. In no event shall Cardinal be light for incidential or consequential damages, including, without similation, business interruptions, loss of use, or loss of profile ecurred by client, its subsequents, adjusted and eres or successions are claimed or method reasons or adverses. In the second of the performance of services neglection, reparties of whether such claims cardinal period of the performance of services neglection, reparticles of whether such claims based upon any of the adverse of services neglection.

company Name:	BBN Intl					Ą	VALYSIS R	EQUEST		
roject Manager:	ALT BUNDEN		BILLTO	# 0d #:						-
ddress:1324	W Marland.		Company: H	ess Corp					~~~~~	
ity: HAbbs	State: N/MZID.	2524D	Attn: Rand	" Barnes						
hone #: 47.57	347-6328		Address:							
ax #: 5755 - 3	97-6347		City:	nins/e					:	<u>.</u>
rolect #:	Project Owner:	Heas Corpora	State: WX	Zip:						-
róject Name: 7	Xarr State (1)	wit Balt 2	Z Phone #:		<u> </u>					
rolect Location:	N rounsert		Fax #:						•	-1
FOR LAB USE ONLY		T MATRIX	PRES.	SAMPLING	 T					
LAB1.D.	Sample I.D.	RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER OIL	עניין אדיר באיר סיד ערד באיר ערד באיר ערד באיר ערד באיר	DATE	BTEX Chloride	Hd.L.				·····
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	GRA Water			1. 16.12. 14.50						-
LELSE NOTE: LIMITY and Da. Mysels. A course including their	and the cardinal of a backy and cherring and using the second of the second second and any other carded what books to be a second secon	mady for any dain article when ar	based in contract or lon, shall	á be limited lo the amount paid r Cardinal Mérin 30 days aite	by the clear for the spical completion of the spical		Terms and Conde 30 days park die al	As: Heres ville de the rise of 24% per am	ged an el accourt no ged an el accourt no un trom the original cas	re than a of invoice,
Brites. In to even shall Cardin Pistes or suscessions erising ou	el be fabil for inciential or correquertal durage t of or mated to the performance of services her	s, including without limitation. Durine wunder by Cardow, itaganderet of w	os interruptions, loss of use, c other each child is besed up	or ices of purits incuracity o on any of the above stated in	lore, its existication, aspise or otherwise,		and al costs of colo	alon, including alterni	/s fires.	
sampler Relinquish	led: Date:	Received by		Phone Fax Rei	Result D Yes	D No Addition	nal Fax #:			
Relinguished By:	Time: Date://	Lole Received By	: (Lab Staff)	RENAR	KS:					
Delivered BV: (1 Sampler - UPS - B	Sircle One) us - Other:	Concernant Concernant	tition CHECKE to CHECKE	als)					N.	
† Cardinal can	not accept verbal changes. F	ease fax written cha	No / 7 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	7020.						



PHONE (505) 393-2326 + 101 E MARLAND - HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/09/06 Reporting Date: 06/15/06 Project Owner: NOT GIVEN Project Name: TEXACO STATE G LACT UNIT BTRY 22 Project Location: MONUMENT, NM

SAMPLE ID

LAB NO.

Analysis Date: 06/12/06 Sampling Date: 06/08/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: AB

(mg/kg)	
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H11210-1	SB3-5'	768
H11210-2	SB3-20'	32
H11210-3	MW-3-3'	1520
H11210-4	MW-3-5'	448
H11210-5	MW-3-10'	304
H11210-6	MW-3-20'	16
H11210-7	MW-3-25'	16
H11210-8	MW-4-3'	576
H11210-9	MVV-4-5'	960
H11210-10	MW-4-10'	480
H11210-11	MW-2-20'	16
Quality Cont		990
True Value (1000
% Recovery	an na anna an ann an ann an ann an ann an a	99
Relative Per	cent Difference	0.0

METHOD: Standard Methods 4500-CI'B NOTE: Analyses performed on 1:4 w:v aqueous extracts.

06-15-06 Date

H11210

PLEASE NOTE: Liability and Damages, Cardinal's leadably and cleart's exclusive remark for any chain ansaig, which eraised in contractor tort, shall be leaved to the amount prior by charitor analysis. Ar clearly, including those for pegisperce and any other cause whitsbered chainse denied winyed under a warking and received by Cardinal wither thiny (3) days after cause whitsbered chainse denies and an warking and received by Cardinal wither thiny (3) days after cause whitsbered chainse denies and an warking and received by Cardinal wither thiny (3) days after cause whitsbered chainse denies and any and received by Cardinal wither thiny (3) days after cause whitsbered chainse, the or event share **Cardinal** wither the denies of chainse denies and an under the denies of the original wither the denies of the denies of the denies of the denies of without land, and any of the denies of a construction of the denies there are a warking out of or received by Cleart, as substantiates, although or successors are and out or created to the denies there are been derived by **Cardinal**, regardless of whether such cleart as based open any of the above stated by cleart, as substantiates, although or successors are and out or created to the denies there are a here of the above stated or although and are an are an are any of the above stated reasons or although the above stated in a successor are and an area of a statement.



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ANALYTICAL RESULTS FOR **BBC INTERNATIONAL** ATTN: CLIFF BRUNSON 1324 WEST MARLAND HOBBS, NM 88240 FAX TO: 505-397-0397

Receiving Date: 6/9/06 Project Owner: NONE GIVEN Project Number: NONE GIVEN Project Name: TEXACO STATE G LACT UNIT BTRY 22 Project Location: MONUMENT NM Reporting Date: 6/15/06

Sampling Dates: 6/8/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: JC

LAB ID	SAMPLE ID	GRO	DRO				ETHYL-	TOTAL
		C6-C12	>C12-C28		BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/kg)	(mg/kg)		_(mg/kg)_	(mg/kg)	(mg/kg)	(mg/kg)
H11210-1	SB_3 - 5'	<50.0	<50.0		< 0.002	<0.002	<0.002	<0.006
H11210-2	SB 3 - 20'	2500	13200		< 0.010	*1.212:	*0.574	*3.609
H11210-3	MW - 3 - 3'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
H11210-4	MW - 3 - 5'	<50.0	<50.0		< 0.002	<0.002	<0.002	<0.006
H11210-5	MW - 3 - 10'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
H11210-6	MW - 3 - 20'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
H11210-7	MW - 3 · 25'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
H11210-8	MW - 4 - 3'	<50.0	<50.0		<0.002	<0.002	<0.002	<0.006
H11210-9	MW - 4 - 5'	<50.0	<50.0		< 0.002	<0.002	<0.002	<0.006
H11210-10	MW - 4 - 10'	<50.0	<50.0	GRO/DRO	<0.002	<0.002	_<0.002	<0.006
H11210-11	MW_2 2 - 20'	<50.0	<50.0	(mg/kg)	<0.002	<0.002	<0.002	<0.006
Extraction Date		06/14/06	06/14/06	06/14/06	06/13/06	06/13/06	06/13/06	06/13/06
Analysis Date:		06/14/06	06/14/06	06/14/06	06/13/06	06/13/06	06/13/06	06/13/06
Method Blank		<50.00	<50.00	<50.00	<0.002	<0.002		
LCS		E. Star		NO 1993	0.102	0.105	0.106	0.312
True Value LCS	~	a ryski frank a sin gran skipa i a Alfrida a		a stante e e a stanten get inner ing An en stanten stanten stanten ing	0.100	0.100	0.100	0.300
LCS % Recovery					102%	105%	106%	104%
Matrix Spike (MS)			and the second	364				
Matrix Spike Dup (M	ISD)		An and an and a second second	345	2 mail and any first state of the	and the second states and a second	an Sharan a sharan a shiriyada. Sharan a	Print the grant and the
True Value Matrix S	pike			400			a a star a st A star a star	and the second second second second second
MS_% Recovery				90.9%			a the second	and introduced and a second second
MSD % Recovery		1.34.34.14	4 A.	86.4%		and an average of a second second second	an de la companya angun	¢rable, en γn janual i "sie an streksj
Matrix Spike RPD				5.2%	9.8%	11.9%	11.9%	12.6%

*Results should be considered as estimates due to high petroleum hydrocarbon background interference. FLAGS:

Methods: TPH 8015 M; BTEX-MTBE SW-846 8021B, 5030B



PLEASE NOTE Liability and Damages Cardinal's valuently and client's eachance remedy for any claim ausing, whether based in contract or tert, shall be line et to the amount part by client for any space All carries, including the buildings of contraction of the second carries and the second carries of contraction of the approximation of

ODY AND ANALYSIS REQUEST	Paga / of 2	ANALYSIS REQUEST																					Terra and Confedence Link and the Net of the Party of the Manuar Frank and Deep parts for A the first and A 25 for an and a first and a different and the Manuar Manuar Junkahy addressive for the	I No 14.001 Phone 2: No 14.041 Gay at 2:					· · · ·
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	10bbs, NM (505) 393-3	8	P.O. #:	Company:	Attn:	Address:	Chty:	State:	Phone #:	Fax #:	PRESERV	: יסר כפי :	OTHER ACIDIES ACIDIES ACIDIES	2			7	5	7	<u>, </u>		7	istal ba linkod ta 24 d by Gardeni witen 2 ee, of bee of profits	N UPON BY BE INC.	reker	2	re	I CHECK	
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AINAL LA	11 Beechwood (915) 673-7001	$BBC \leq L$	- <u>Ceru</u>	334 01	65	7-10388		Leves St	Doguar	Amer K	Ċ,	Samp		583-51	183-201	2103 -	<u>nu-3 -</u>	<u>muo-3 -</u>	<u>mu-3 -</u>	71.0.5 -	21-0-4-	- K-CALC	allaçar. Cardini's lability or sa or registration and may or s base for fordered or o	u wa naa du zo zame hod:	is the		Guller	Circle OneV	Bus - Other:
E C	21	Company Namo:	Project Manager	Address: /	Ctry: Hob.	PROFA # 39	Project #	The Sect Name	Project Location:	Sampler Name:	FORLING LESS CALT	Lab I.D.		HUSIEH	<u>*</u>	1 6 -	1 1	Y.	3		() ()	1 21-	PLEASE NOTE: Landy and Sa Lugara . N carity that Church Ch Lucasa . Isi'n reve that Carity .	Sampler Rollnguls.	Hmis K	Relinguisted By:	Vern a Les	Collyered BY: 1	Sampler) UPS • E

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2475.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

INC.	101 Soct Marland
<i>TORIES</i> ,	TY 79603
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21 Company Name:	11 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 (878.0000 Fax (915) 573-7020	101 East Marland, (505) 393-2326 Fax	Hobbs, NM 88240 (505) 393-2476 BILL TO		Page 2 of 2. ANALYSIS REQUEST
Project Manager	Clip Baumoor		P.O. #:		
Address: 1.3	24 CULL Marlan	d	Company: Noss C	Ho	
CITY: Norbe	State: Mr. 2	zlp: 88240	Attn:		
Phone #: 39	7-6388 FWAR 397	7-0.397	Addross:		
ित्वोकता ज्ञ	Project Owner:		City:	23 	
Project Name: 7	cloco State la Last	Unit Btry 22	State: Zip:	77)	
Project Location:	Derugsent, Dm		Phone #:		
Sampler Name:	Amy Ruth		Fex 4:	7y 	
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	us - Uther:	No No No			

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Caratrial cannot accept verbal changes. Please fax written changes to 505-393-2476.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/21/06 Reporting Date: 06/27/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 06/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: BC/AB

	GRO	DRO	
	$(C_{6}-C_{10})$	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	06/24/06	06/24/06	06/23/06
H11258-1 1 14'	<10.0	14.5	32
H11258-2 2 6'	<10.0	<10.0	16
H11258-3 3 4'	<10.0	45.1	<16
H11258-4 4 1'	<10.0	117	<16
H11258-5 5 1'	<10.0	260	16
H11258-6 6 2'	<10.0	22.2	<16
H11258-7 7 1'	<10.0	11.2	16
H11258-8 8 1'	<10.0	317	<16
H11258-9 9 1'	<10.0	91.1	80
H11258-10 10 2'	<10.0	11.4	16
H11258-11 11 2'	<10.0	<10.0	80
Quality Control	738	748	970
True Value QC	800	800	1000
% Recovery	92.3	93.0	97.0
Relative Percent Difference	4.2	1.5	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remewy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negigence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, artificates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwisin





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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 06/21/06 Reporting Date: 06/27/06 Project Owner: HESS CORPORATION Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 06/21/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: BC

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NO. SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	06/23/06	06/23/06	06/23/06	06/23/06
H11258-1 1 14'	<0.005	<0.005	<0.005	<0.015
H11258-2 2 6'	<0.005	<0.005	<0.005	<0.015
H11258-3 3 4'	<0.005	< 0.005	<0.005	<0.015
H11258-4 4 1'	<0.005	<0.005	<0.005	<0.015
H11258-5 5 1'	<0.005	<0.005	<0.005	<0.015
H11258-6 6 2'	<0.005	<0.005	<0.005	<0.015
H11258-7 7 1'	<0.005	<0.005	< 0.005	<0.015
H11258-8 8 1'	<0.005	< 0.005	<0.005	<0.015
H11258-9 9 1'	<0.005	<0.005	<0.005	<0.015
H11258-10 10 2'	<0.005	<0.005	<0.005	<0.015
H11258-11 11 2'	<0.005	<0.005	<0.005	<0.015
Quality Control	0.101	0.101	0.103	0.301
True Value QC	0.100	0.100	0.100	0.300
% Recovery	101	101	103	100
Relative Percent Difference	4.2	3.2	4.8	0.8

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liebility and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and receivert by Cardinal within thirty (30) days after completion of the applicable HIG2DBBeven shall Cardinal be liable tor incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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NAME: BBC Internation	ional The		2		ANALY	SIS REQUEST	
Manager diff Brunson		P.O. #. 45- 157	156				
: 1324 W. Marland		Company: Hess C	or p.	И			
42bbs State:	: NM ZIP: 88240	Attn:		/_5			
: 505-397-6388 Fax#	505-397-0397	Addrass;		12			
* MONUM OLESOOI Project	TOWNER: HESS CARD.	City: Seminale		8			
Name: Texaco State G La	rch Battery 22	State: TX Zlp:		6			
CONTON MIDNUMENT	· ·	Phone #:		30			
Hama: AMU Ruth		Fax #:		1/			
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Page 2 of 2	ANALYSIS REQUEST										+3	18					Terra and Condenants laker, at the damped on M seconds in	30 days pared day in the of 26% per kritith ten the eriptime da and in constant occurrent in the Constant of Constant in the constant of C	D No Addil Phone #: 1		r samples		- <u> </u>	
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3 <i>ORATO</i> Abilene, TX	ax (915) 57 L	mernan	arland	State:	P Fax #	Project	6 1 5	ht	C/I									ניסיר ואלאלא (אוא	an ol sories bear Date: Date:	Time:	Dala:/7/		2	I chandes. PI
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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/12/06 Reporting Date: 07/13/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/10/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC/AB

	GRO	DRO	
	$(C_{6}-C_{10})$	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	07/12/06	07/12/06	07/12/06
H11336-1 MW 4-22'	<10.0	<10.0	48
H11336-2 SB 5-25'	_201	1140	48
H11336-3 MW 5-25 th	<10.0	<10.0	32
H11336-4 MW 6-22'	<10.0	<10.0	32
Quality Control	769	801	1000
True Value QC	800	800	1000
% Recovery	96.1	100	100
Relative Percent Difference	2.1	2.3	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analyses performed on 1:4 w:v aqueous extracts.

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1/13/06



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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable sorvice. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfiliates or successors atising out of or related to the performance of services nereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/12/06 Reporting Date: 07/13/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/10/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DA	TE	07/12/06	07/12/06	07/12/06	07/12/06
H11336-1	MW 4-22'	< 0.005	<0.005	<0.005	<0.015
H11336-2	SB 5-25'	<0.005	<0.005	0.025	0.346
H11336-3	MW 5-25'	< 0.005	<0.005	<0.005	<0.015
H11336-4	MW 6-22'	<0.005	<0.005	<0.005	<0.015
· · ·				an - Salah - Sa	
Quality Contro		0.093	0.102	0.098	0.280
True Value QC	and the second	0.100	0.100	0.100	0.300
% Recovery		93.4	102	98.3	93.4
Relative Perce	nt Difference	<0.1	7.7	4.5	0.5
THE REPORT OF A DECISION OF A DECISIONO OF A	the second	And a second sec	A STATE OF A	frances and the second s	And a second s

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, athlight programmer programmer and on the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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2111 BEECNYOOD, ADIRENE, 1X / 9503 - 1L (915) 573-7001 Fax (915) 573-7020 (5	01 East Marland, 305) 393-2326 Fay	Hobbs, NM 88240 < (505) 393-2478				Page	
COMPANY NAME: BBC INTERNATION 21	The	BILL TO			SISY TANA	REQUEST	
Projact Managar Cliff Brunson		P.O. #: 45- 157	156				
Address: 1324 W. Marland		Company: Hess	oro.				
City: Hobbs State: NM ZIp:	88240	Attn:	15				
PRODAF 505-397-6388 Fax# 505-39	97-0397	Address:	108				,
Project # MONWM BLES ODI Project OWNER: HES	S CARD.	ctry: Seminole	3 (
Project Names TEX JOO State, (Lant B	Sittery 22	statu: TX Zip:					
Project Location: M AN UNIN PHL	· · · · · · · · · · · · · · · · · · ·	Phone #:					
Samplar Name: AMU Kuth		Fax #:	70				
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Regindutshed By: Receive Date: Receive	ed By: (Lab Staff)						
Generation Ciller 710:00						· · · · ·	
Delivered 27: (Circle Qne)	Sample Condition Cool Intact	CHECKED BY: (Initiale)				÷	
Sampler - UPS - Bus - Other:							
† Cardinal cannol accept verbal changes. Please fax writter	in changes to 505-3	193-2476,					



PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/28/06 Reporting Date: 08/01/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/27/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE	07/31/06	07/31/06	07/28/06
H11393-1 BURN PIT RIM SPOILS	<10.0	<10.0	160
Quality Control	780	770	990
True Value QC	800	800	1000
% Recovery	97.5	96.2	99.0
Relative Percent Difference	0.9	7.2	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analysis performed on a 1:4 w:v aqueous extract.

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In one event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 88240

ANALYTICAL RESULTS FOR BBC INTERNATIONAL, INC. ATTN: CLIFF BRUNSON P.O. BOX 805 HOBBS, NM 88241 FAX TO: (505) 397-0397

Receiving Date: 07/28/06 Reporting Date: 08/01/06 Project Number: MONUM 06ES001 Project Name: TEXACO STATE G LACT BATTERY 22 Project Location: MONUMENT, NM Sampling Date: 07/27/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE	07/31/06	07/31/06	07/31/06	07/31/06
H11393-1	BURN PIT RIM SPOILS	<0.005	<0.005	<0.005	<0.015
Quality Cor	ntrol	0.100	0.105	0.106	0.299
True Value	QC	0.100	0.100	0.100	0.300
% Recover	У	99.6	105	106	99.7
Relative Pe	ercent Difference	<0.1	6.7	7.8	2.0

METHOD: EPA SW-846 8260

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11/06



PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. If negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. If negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service and negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service and negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service and negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service and negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service and applicable (30) and a

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Page L			Tarine and Conclements like the disc Tarine and Conclements like the disc 30 day paid day at the disc first servic col at count of conclement, the disc promotion	Add'I Phone #: 1
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obbs, NM 88240 (505) 393-2476 BILE 70	2.0. #: 45-157156 Company: Hess Corp. Attri: Addrass: City: Seminole State: TX zlp: Phone #:	али страна С	that the standard to for executing pair (1) where for the standard to for executing pair (1) where for the scored standard s	a pon any at the boor a first lease of Phonin Fax R CHECKED BY: Ginthalej 393-2476.
ES, INC. 803 101 East Marland, H 920 (505) 393-2326 Fax	M ZIP: 88240 5-397-0397 or Asstrucy 22	 (с) КАВ ОК (С) ОМР. # СОИТАЛИЕКЗ # СОИТАЛИЕКЗ ФУАЗТЕМАТЕЯ ЗОЛ. ЗОЛ. ЗОЛ. 	ry Lalin strate to the strate of the strate	Received By: (Lab Staff) Received By: (Lab Staff) Received By: (Lab Staff) Staff Cool Intech Cool Intech Star written changes to 505-
1. LABORATORII chwood, Abliene, TX 796 73-7001 Fax (915) 673-76	M Grunson J. Marland State: <u>N</u> L-6388 Fax# 50 bESOOL Project Om bESOOL Project Om	y Kuth sample I.D.	י און און אינסטאס אינסטאס אינסטאסעער אינערעערעערעערעערעערעערעערעערעערעערעערעערע	Xi o Free Perturbase of Antice Manufacty Time: Time: Time: Xhar: Xhar: Spit Yarbal changes. Please
2111 Beer 2111 Beer (915) 67 Company Name: 2 (2)	Project Managen (11, Address: 1324 L City: Hobbs Phona 7: 505-39 Project MONUM (21) Project Neme: Tex 30, Project Location: M10	reauserers HWL	GUE KOTE Looky ad Mrawa. Car ayna, w cain reacto rock in repo	sampler Relinquished:

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APPENDIX II

Groundwater Laboratory Analytical Results

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

September 20, 2006

Cliff Brunson BBC International 1324 West Marland Blvd Hobbs, NM 88240

Tel: (505) 397-6388 Fax:

Re: Hess Texaco

Work Order : 0608511

Dear Cliff Brunson,

e-Lab Analytical, Inc. received 9 samples on 8/26/2006 8:15:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 66.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Odelle E Eliston Jeffrey L Croston Project Manager



Date: September 20, 2006

CLIENT: **BBC** International **Project:** Hess Texaco Work Order: 0608511

Work Order Sample Summary

Lab Samp 1D	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	<u>Hold</u>
0608511-01	G Lact MW1	Water		8/23/2006 11:19	8/26/2006 08:15	
0608511-02	G Lact MW2	Water		8/23/2006 14:53	8/26/2006 08:15	
0608511-03	G Lact MW5	Water		8/24/2006 11:08	8/26/2006 08:15	
0608511-04	G Lact MW4	Water		8/24/2006 13:20	8/26/2006 08:15	\square
0608511-05	G Lact MW6	Water		8/24/2006 14:54	8/26/2006 08:15	
0608511-06	Duplicate	Water		8/24/2006	8/26/2006 08:15	
0608511-07	Equipment Rinse	Water		8/24/2006 15:45	8/26/2006 08:15	
0608511-08	Trip Blank 1	Water		8/24/2006 15:45	8/26/2006 08:15	\checkmark
0608511-09	Trip Blank 2	Water		8/24/2006 15:45	8/26/2006 08:15	\checkmark



e-Lab Analy	tical. Inc.	Date: September 20, 2006
CLIENT:	BBC International	
Project: Work Order:	Hess Texaco 0608511	Case Narrative

pH samples were received outside of the recommended holding time.

Nitrite (samples G Lact MW1 and G Lact MW2) were received outside of the recommended holding time.

Batch 19613 Metals MS/MSD was an unrelated sample.

Batch R41162 Volatiles MS/MSD RPD was an unrelated sample.

Batch R41214 Volatiles (sample G Lact MW4) MS recoveries were below the control limits for Acrylonitrile (55.3%). Several RPD's were outside of control limits, but met the method criteria in the LCS.

Batch's R41322, and R41405 Anions MS/MSD were unrelated samples.

· ······

BBC International

0608511

CLIENT:

Work Order:

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

 Project:
 Hess Texaco

 Lab ID:
 0608511-01

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL			SW747()	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 6:59:40 PM
ICP METALS, TOTAL			SW6020)	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 1:22:00 AM
Arsenic	0.00509		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Barium	0.101		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Boron	0.220		0.0200	mg/L	1		9/2/2006 1:22:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 1:22:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Copper	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 1:22:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Manganese	0.00779		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Molybdenum	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 1:22:00 AM
Uranium	0.00532		0.00500	mg/L	1		9/19/2006 7:50:00 PM
Zinc	0.00818		0.00500	mg/L	1		9/2/2006 1:22:00 AM
SEMIVOLATILE ORGANICS BY GC/MS	;		SW8270	0	Prep Date:	8/28/2006	Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	. 1		9/6/2006 1:43:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 1:43:00 PM
1-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Chlorophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM
3,3'-Dichlorobenzidine	NÐ		10	µg/L	1		9/6/2006 1:43:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 1:43:00 PM

Qualifiers:

S - Spike Recovery outside accepted recovery limits P - Dual Column results percent difference > 40%

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 1 of 25



ND - Not Detected at the Reporting Limit

e-Lab Analytical, Inc. ն համարածական հայտություն համար հայտերությունը։ Արդեսու հայտարությունը հայտարացությունը հայտարացությունը հայտա Հերջությունը համարակությունը հայտարությունը հայտերությունը համարագրանը հայտությունը հայտարանությունը հայտերությո

CLIENT:

Work Order:

Date: September 20, 2006

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Hess Texaco **Project:** Lab ID:

0608511-01

0608511

BBC International

Matrix: WATER

			Report		Dilution	
Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 1:43:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Benzidine	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Benzo(g,h,i)perylene	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Bis(2-chloroethyl)ether	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Di-n-butyl phthalate	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Dibenz(a,h)anthracene	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Diethyl phthalate	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Dimethyl phthalate	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Hexachlorocyclopentadiene	ND		10	μg/L	1	9/6/2006 1:43:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Isophorone	ND		10	μg/L	1	9/6/2006 1:43:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 1:43:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Pentachlorophenøl	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 1:43:00 PM
VOLATILES BY GC/MS			SW8260	D		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

P - Dual Column results percent difference > 40%

E - Value above quantitation range H - Analyzed outside of Hold Time

* - Value exceeds Maximum Contaminant Level

AR Page 2 of 25

Date: September 20, 2006

the property of the second sec **CLIENT: BBC** International Work Order: 0608511 **Project:** Hess Texaco 0608511-01 Lab ID:

Client Sample ID: G Lact MW1 Collection Date: 8/23/2006 11:19:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Acrolein	ND		20	µg/L	1	8/28/2006 9:41:00 PM
Acrylonitrile	ND		10	µg/L	1	8/28/2006 9:41:00 PM
Benzene	ND		5.0	μg/L	1	8/28/2006 9:41:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Bromomethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chloroform	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Chloromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
cis-1,3-Dichloropropene	ND		5.0	μg/L	1	8/28/2006 9:41:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
m,p-Xylene	ND		10	µg/L	1	8/28/2006 9:41:00 PM
Methylene chloride	ND		10	µg/L	1	8/28/2006 9:41:00 PM
o-Xylene	ND		5.0	μg/L	1	8/28/2006 9:41:00 PM
Tetrachloroethene	ND		5.0	μg/L	1	8/28/2006 9:41:00 PM
Toluene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/28/2006 9:41:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/28/2006 9:41:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	1	8/28/2006 9:41:00 PM
Surr: 4-Bromofluorobenzene	108		72.4-125	%REC	1	8/28/2006 9:41:00 PM
Surr: Dibromofluoromethane	109		71.2-125	%REC	1	8/28/2006 9:41:00 PM
Surr: Toluene-d8	106		75-125	%REC	1	8/28/2006 9:41:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	116		5.00	mg/L	10	9/3/2006 7:42:00 PM
Fluoride	0.709		0.100	mg/L	1	9/3/2006 2:12:00 AM
Sulfate	95.6		10.0	mg/L	10	9/3/2006 7:42:00 PM
Nitrate/Nitrite (as N)	1.22		0.500	mg/L	5	9/7/2006 10:03:00 AM
Surr: Selenate (surr)	110		80-120	%REC	10	9/3/2006 7:42:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range H - Analyzed outside of Hold Time
 - AR Page 3 of 25

Date: September 20, 2006

	الاران المراجع المراجع المراجع المراجع	
CLIENT:	BBC International	Client Sample ID: G Lact MW1
Work Order:	0608511	Collection Date: 8/23/2006 11:19:00 AM
Project:	Hess Texaco	
Lab ID:	0608511-01	Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	107		80-120	%REC	1	9/3/2006 2:12:00 AM
Surr: Selenate (surr)	116		80-120	%REC	5	9/7/2006 10:03:00 AM
CYANIDE, TOTAL	ND		E335.3			Analyst: IGF
Cyanide	ND		0.0200	mg/∟	1	8/28/2006 4:30:00 PM
NITRITE			E354.1			Analyst: RPM
Nitrogen, Nitrite	ND	н	0.0100	m g/ L	1	8/26/2006
РН			E150.1			Analyst: RPM
pH	6.65	н	0.100	pH units	1	8/26/2006
TOTAL DISSOLVED SOLIDS			E160.1			Analyst: RPM
Total Dissolved Solids (Residue, Filterable)	740		10.0	mg/L	1	8/29/2006

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

Acres constraints

* - Value exceeds Maximum Contaminant Level

ware a state of a state of S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

and an an encountration of the second and

H - Analyzed outside of Hold Time

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BBC International

0608511

Hess Texaco

CLIENT:

Work Order: Project: Date: September 20, 2006

al Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER Lab ID: 0608511-02 Report Dilution Result Qual Limit Units **Date Analyzed** Analyses Factor SW7470 Prep Date: 9/5/2006 Analyst: JCJ MERCURY, TOTAL ND 0.000200 9/5/2006 7:01:28 PM mg/L 1 Mercurv SW6020 Prep Date: 9/1/2006 ICP METALS, TOTAL Analyst: SA ND 0.0100 mg/L 9/2/2006 1:29:00 AM Aluminum 1 0.00636 0.00500 1 9/2/2006 1:29:00 AM Arsenic mg/L 9/2/2006 1:29:00 AM Barium 0.155 0.00500 mg/L 1 0.0290 0.0200 1 9/2/2006 1:29:00 AM Boron mg/L 9/2/2006 1:29:00 AM Cadmium ND 0.00200 mg/L 1 ND 0.00500 1 9/2/2006 1:29:00 AM ma/L Chromium 0.00500 9/2/2006 1:29:00 AM ND ma/L 1 Cobalt 0.00500 9/2/2006 1:29:00 AM ND Copper mg/L 1 ND 9/2/2006 1:29:00 AM 0.200 mg/L 1 iron Lead ND 0.00500 mg/L 1 9/2/2006 1:29:00 AM ND 0.00500 1 9/2/2006 1:29:00 AM Manganese mg/L 9/2/2006 1:29:00 AM Molybdenum ND 0.00500 mg/L 1 ND 0.00500 mg/L 1 9/2/2006 1:29:00 AM Nickel Selenium ND 0.00500 mg/L 9/2/2006 1:29:00 AM 1 Silver ND 0.00500 ma/L 1 9/2/2006 1:29:00 AM Uranium ND 0.00500 mg/L 1 9/19/2006 8·25·00 PM Zinc 0.00898 0.00500 mg/L 1 9/2/2006 1:29:00 AM SEMIVOLATILE ORGANICS BY GC/MS SW8270 Prep Date: 8/28/2006 Analyst: HV µg/L 1,2,4,5-Tetrachlorobenzene ND 10 9/6/2006 3:05:00 PM 1 ND 10 µg/L 9/6/2006 3:05:00 PM 1,2-Diphenylhydrazine 1 ND µg/L 9/6/2006 3:05:00 PM 1-Methylnaphthalene 10 1 ND 10 9/6/2006 3:05:00 PM 2,3,4,6-Tetrachlorophenol µg/L 1 2,4,5-Trichlorophenol ND 10 µg/L 1 9/6/2006 3:05:00 PM 2,4,6-Trichlorophenol ND 10 µg/L 1 9/6/2006 3:05:00 PM 2,4-Dichlorophenol ND 10 µg/L 1 9/6/2006 3:05:00 PM 2,4-Dimethylphenol ND 10 µg/L 1 9/6/2006 3:05:00 PM ND 10 µg/L 9/6/2006 3:05:00 PM 2,4-Dinitrophenol 1 ND 10 9/6/2006 3:05:00 PM 2,4-Dinitrotoluene μg/L 1 2.6-Dichlorophenol ND 10 µg/L 1 9/6/2006 3:05:00 PM ND 10 μg/L 9/6/2006 3:05:00 PM 2-Chlorophenol 1 ND 10 2-Methylnaphthalene µg/L 9/6/2006 3:05:00 PM 1 ND 10 µg/L 2-Methylphenol 9/6/2006 3:05:00 PM 1 ND 10 µg/L 2-Nitrophenol 1 9/6/2006 3:05:00 PM 3&4-Methylphenol ND 10 µg/L 1 9/6/2006 3:05:00 PM 3,3'-Dichlorobenzidine ND 10 µg/L 1 9/6/2006 3:05:00 PM ND 4,6-Dinitro-2-methylphenol 10 µg/L 1 9/6/2006 3:05:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

- * Value exceeds Maximum Contaminant Level
- P Dual Column results percent difference > 40% E - Value above quantitation range

H - Analyzed outside of Hold Time

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BBC International

0608511

CLIENT:

Work Order:

Date: September 20, 2006

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

 Project:
 Hess Texaco

 Lab ID:
 0608511-02

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Acenaphthene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(a)pyrene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Fluorene	ND		10	μ g/L	1	9/6/2006 3:05:00 PM
Hexachlorobenzene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitroso-di-n-butylamine	ND		10	μg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 3:05:00 PM
N-Nitrosopyrrolidine	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Naphthalene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Pentachlorobenzene	ND		10	μg/L	1	9/6/2006 3:05:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 3:05:00 PM
VOLATILES BY GC/MS			SW826	0		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM

Qualifiers: ND -

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time AR Page 6 of 25

Date: September 20, 2006

CLIENT:BBC InternationalWork Order:0608511Project:Hess TexacoLab ID:0608511-02

Client Sample ID: G Lact MW2 Collection Date: 8/23/2006 2:53:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloroethane	ND		5.0	μg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloroethene	ND		5.0	μg/L	1	8/28/2006 10:09:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Acrolein	ND		20	µg/L	1	8/28/2006 10:09:00 PM
Acrylonitrile	ND		10	µg/L	1	8/28/2006 10:09:00 PM
Benzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Bromodichloromethane	ND		5.0	μg/L	1	8/28/2006 10:09:00 PM
Bromomethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chloroform	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Chloromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
m,p-Xylene	ND		10	µg/L	1	8/28/2006 10:09:00 PM
Methylene chloride	ND		10	µg/L	1	8/28/2006 10:09:00 PM
o-Xylene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Toluene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/28/2006 10:09:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/28/2006 10:09:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	1	8/28/2006 10:09:00 PM
Surr: 4-Bromofluorobenzene	107		72.4-125	%REC	1	8/28/2006 10:09:00 PM
Surr: Dibromofluoromethane	108		71.2-125	%REC	1	8/28/2006 10:09:00 PM
Surr: Toluene-d8	106		75-125	%REC	1	8/28/2006 10:09:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	11.6		0.500	mg/L	1	9/3/2006 2:34:00 AM
Fluoride	0.827		0.100	mg/L	1	9/3/2006 2:34:00 AM
Sulfate	13.1		1.00	mg/L	1	9/3/2006 2:34:00 AM
Nitrate/Nitrite (as N)	2.46		0.500	mg/L	5	9/7/2006 10:25:00 AM
Surr: Selenate (surr)	108		8 0-120	%REC	1	9/3/2006 2:34:00 AM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits P - Dual Column results percent difference > 40%

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW2

 Work Order:
 0608511
 Collection Date: 8/23/2006 2:53:00 PM

 Project:
 Hess Texaco
 Matrix: WATER

 Lab ID:
 0608511-02
 Matrix: WATER

 Analyses
 Result
 Qual
 Report
 Dilution
 Date Analyzed

 Surr: Selenate (surr)
 115
 80-120 %REC
 5
 9/7/2006 10:25:00 AM

Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 10:25:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM
NITRITE Nitrogen, Nitrite	ND	н	E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	7.03	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	259		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006

Qualifiers:

ND - Not Detected at the Reporting Limit

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

ւների որոշատությունը հետու է գետանատարան տարորությունը ու որոշատում է երուլ է է տեղենատարանը։ Այսեներ պետությու Դորոշատությունը հետությունը հետու է փիկերապետ հորը էրը է որոշատու է հետու ել է է է է է է է է հետությունը իր։ Դե -Client Sample ID: G Lact MW5 **CLIENT: BBC** International Collection Date: 8/24/2006 11:08:00 AM Work Order: 0608511 **Project:** Hess Texaco Matrix: WATER Lab ID: 0608511-03 Report Dilution

Analyses	Result	Qual	Limit	Units	Factor		Date Analyzed
MERCURY, TOTAL			SW7470)	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 7:03:16 PM
ICP METALS, TOTAL			SW6020	נ	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 1:35:00 AM
Arsenic	ND		0.00500	mg/∟	1		9/2/2006 1:35:00 AM
Barium	0.0732		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Boron	0.158		0.0200	mg/L	1		9/2/2006 1:35:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 1:35:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Copper	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 1:35:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Manganese	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Molybdenum	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 1:35:00 AM
Uranium	0.00596		0.00500	mg/L	1		9/19/2006 8:30:00 PM
Zinc	0.00836		0.00500	mg/L	1		9/2/2006 1:35:00 AM
SEMIVOLATILE ORGANICS BY GC/M	8		SW827	0	Prep Date:	8/28/2006	Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	µg/L	1		9/6/2006 3:32:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 3:32:00 PM
1-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2-Chlorophenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
2-Nitrophenol	ND		10	μg/L	1		9/6/2006 3:32:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM
3,31-Dichlorobenzidine	ND		10	µg/L	1		9/6/2006 3:32:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 3:32:00 PM

Qualifiers:

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

P - Dual Column results percent difference > 40%

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

H - Analyzed outside of Hold Time

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ND - Not Detected at the Reporting Limit

Date: September 20, 2006

CLIENT: BBC International Work Order: 0608511 Hess Texaco **Project:** Lab ID:

0608511-03

ու համանական կարձակությունը է հայտությանը կությունը հայտությանը է է հայտատատարին որ հուրական է չությանը է չուրականությունը է հայտությունը է հայտությունը է հայտությունը է հայտությանը է հայտությունը է հայտությանը է Client Sample ID: G Lact MW5

Collection Date: 8/24/2006 11:08:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Chioro-3-methylphenol	ND		10	µg/L	1	9/6/2006 3:32:00 PM
4-Nitrophenol	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Anthracene	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Benz(a)anthracene	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Benzo(g,h,i)perylene	ND		10	μg/L	1	9/6/2006 3:32:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Hexachlorocyclopentadiene	ND		10	μ g/L	1	9/6/2006 3:32:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Isophorone	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosodiethylamine	ND		10	μ g/L .	1	9/6/2006 3:32:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 3:32:00 PM
VOLATILES BY GC/MS			SW826	D		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 10 of 25

Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW5

 Work Order:
 0608511
 Collection Date: 8/24/2006 11:08:00 AM

 Project:
 Hess Texaco
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Acrolein	ND		20	μg/L	1	8/30/2006 12:57:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 12:57:00 PM
Benzene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Chlorobenzene	ND		5.0	μg/L	1	8/30/2006 12:57:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Chloromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L.	1	8/30/2006 12:57:00 PM
Ethylbenzene	ND		5.0	µg/L.	1	8/30/2006 12:57:00 PM
m,p-Xylene	ND		10	µg/L	1	8/30/2006 12:57:00 PM
Methylene chloride	ND		10	µg/L	1	8/30/2006 12:57:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 12:57:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 12:57:00 PM
Surr: 1,2-Dichloroethane-d4	108		70-125	%REC	1	8/30/2006 12:57:00 PM
Surr: 4-Bromofluorobenzene	110		72.4-125	%REC	1	8/30/2006 12:57:00 PM
Surr: Dibromofluoromethane	107		71.2-125	%REC	1	8/30/2006 12:57:00 PM
Surr: Toluene-d8	103		75-125	%REC	1	8/30/2006 12:57:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	170		5.00	mg/L	10	9/3/2006 8:26:00 PM
Fluoride	0.793		0.100	mg/L	1	9/3/2006 6:37:00 PM
Sulfate	97.0		10.0	mg/L	10	9/3/2006 8:26:00 PM
Nitrate/Nitrite (as N)	4.08		0.500	mg/L	5	9/7/2006 10:47:00 AM
Surr: Selenate (surr)	108		80-120	%REC	1	9/3/2006 6:37:00 PM

ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW5

 Work Order:
 0608511
 Collection Date: 8/24/2006 11:08:00 AM

 Project:
 Hess Texaco
 Matrix: WATER

 Beport
 Dilution

Analyses	Result	Qual	Limit	Units	Dilution Factor	Date Analyzed
Surr: Selenate (surr)	108		80-120	%REC	10	9/3/2006 8:26:00 PM
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 10:47:00 AM
CYANIDE, TOTAL			E335.3			Analyst: IGF
Cyanide	ND		0.0200	mg/L	1	8/28/2006 4:30:00 PM
NITRITE			E354.1			Analyst: RPM
Nitrogen, Nitrite	ND		0.0100	mg/L	1	8/26/2006
РН			E150.1			Analyst: RPM
рН	6.81	н	0.100	pH units	1	8/26/2006
TOTAL DISSOLVED SOLIDS			E160.1			Analyst: RPM
Total Dissolved Solids (Residue, Filterable)	794		10.0	mg/L	1	8/29/2006

Qualifiers:

A Sec.

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank

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- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time

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Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW4

 Work Order:
 0608511
 Collection Date: 8/24/2006 1:20:00 PM

 Project:
 Hess Texaco

 Lab ID:
 0608511-04
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL			SW7470)	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 7:05:05 PM
ICP METALS, TOTAL			SW6020)	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 1:41:00 AM
Arsenic	0.00551		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Barium	0.110		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Boron	0.152		0.0200	mg/L	1		9/2/2006 1:41:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 1:41:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Copper	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 1:41:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Manganese	1.57		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Molybdenum	0.00668		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 1:41:00 AM
Uranium	0.00797		0.00500	mg/L	1		9/19/2006 10:03:00 PM
Zinc	0.00540		0.00500	mg/L	1		9/2/2006 1:41:00 AM
SEMIVOLATILE ORGANICS BY GC/M	s		SW8270)	Prep Date:	8/28/2006	Analyst: HV
1,2,4,5-Tetrachlorobenzene	ND		10	μg/L	1		9/6/2006 8:33:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 8:33:00 PM
1-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4,5-Trichlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4,6-Trichlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,4-Dinitrotoluene	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2,6-Dichlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2-Chlorophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM
3&4-Methylphenol	ND		10	μg/L	1		9/6/2006 8:33:00 PM
3,3'-Dichlorobenzidine	ND		10	μg/L	1		9/6/2006 8:33:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 8:33:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

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 ${\bf J}$ - Analyte detected below quantitation limits

* - Value exceeds Maximum Contaminant Level

B - Analyte detected in the associated Method Blank

opine necovery outside accepted recovery lim

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW4

 Work Order:
 0608511
 Collection Date: 8/24/2006 1:20:00 PM

 Project:
 Hess Texaco

Lab ID: 0608511-04

Matrix: WATER

			Report		Dilution	
Analyses	Result	Qual	Limit	Units	Factor	Date Analyzed
4-Chloro-3-methylphenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Acenaphthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Acenaphthylene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzidine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(a)pyrene	ND		10	μg/L	1	9/6/2006 8:33:00 PM
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Chrysene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Fluoranthene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Fluorene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Hexachloroethane	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Isophorone	ND		10	μg/L	1	9/6/2006 8:33:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Naphthalene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Nitrobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Phenanthrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
Pyrene	ND		10	µg/L	1	9/6/2006 8:33:00 PM
VOLATILES BY GC/MS			SW8260)		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

 ${\bf B}$ - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

E - Value above quantitation range H - Analyzed outside of Hold Time

AR Page 14 of 25

Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW4

 Work Order:
 0608511
 Collection Date: 8/24/2006 1:20:00 PM

 Project:
 Hess Texaco
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Acrolein	ND		20	µg/L	1	8/30/2006 1:26:00 PM
Acrylonitrile	ND		10	µg/L	1	8/30/2006 1:26:00 PM
Benzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Bromomethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chloroform	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Chloromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
m,p-Xylene	ND		10	µg/L	1	8/30/2006 1:26:00 PM
Methylene chloride	ND		10	µg/L	1	8/30/2006 1:26:00 PM
o-Xylene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Toluene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
trans-1,3-Dichloropropene	ND		5.0	μg/L	1	8/30/2006 1:26:00 PM
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 1:26:00 PM
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 1:26:00 PM
Surr: 1,2-Dichloroethane-d4	115		70-125	%REC	1	8/30/2006 1:26:00 PM
Surr: 4-Bromofluorobenzene	10 6		72.4-125	%REC	1	8/30/2006 1:26:00 PM
Surr: Dibromofluoromethane	113		71.2-125	%REC	1	8/30/2006 1:26:00 PM
Surr: Toluene-d8	104		75-125	%REC	1	8/30/2006 1:26:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	99.8		5.00	mg/L	10	9/3/2006 8:48:00 PM
Fluoride	1.16		0.100	mg/L	1	9/3/2006 6:58:00 PM
Sulfate	62.9		10.0	mg/L	10	9/3/2006 8:48:00 PM
Nitrate/Nitrite (as N)	ND		0.500	mg/L	5	9/7/2006 11:09:00 AM
Surr: Selenate (surr)	110		80-120	%REC	1	9/3/2006 6:58:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 15 of 25


Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW4

 Work Order:
 0608511
 Collection Date: 8/24/2006 1:20:00 PM

 Project:
 Hess Texaco
 Matrix: WATER

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Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed		
Surr: Selenate (surr)	109		80-120	%REC	10	9/3/2006 8:48:00 PM		
Surr: Selenate (surr)	115		80-120	%REC	5	9/7/2006 11:09:00 AM		
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: IGF 8/28/2006 4:30:00 PM		
NITRITE Nitrogen, Nitrite	ND		E354.1 0.0100	mg/∟	1	Analyst: RPM 8/26/2006		
РН pH	6.82	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006		
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	646		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006		

Qualifiers:

ND - Not Detected at the Reporting Limit

+ 1.02

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time
- AR Page 16 of 25

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Date: September 20, 2006 e-Lab Analytical, Inc. ատարած հարած հայ որում ու որ որ որ որ որ հարածական արդումներին հարութունին է որ որ հետարի հարածական որունելու է Հարութունի որ հայ որում է որ որուներին հարումներին հարութունին հարութունին է ու որ ու ու որ է որ է որ է որուները Client Sample ID: G Lact MW6 **BBC** International **CLIENT:** 0608511 Collection Date: 8/24/2006 2:54:00 PM Work Order: Hess Texaco **Project:** Lab ID: 0608511-05 Matrix: WATER Report Dilution **Date Analyzed** Result Oual Limit Units Analyses Factor SW7470 Prep Date: 9/5/2006 Analyst: JCJ MERCURY, TOTAL ND 9/5/2006 7:06:54 PM 0.000200 mg/L 1 Mercury ICP METALS, TOTAL SW6020 Prep Date: 9/1/2006 Analyst: SA Aluminum ND 0.0100 mg/L 1 9/2/2006 2:05:00 AM 0.00956 0.00500 9/2/2006 2:05:00 AM mg/L 1 Arsenic 0.0522 0.00500 1 9/2/2006 2:05:00 AM mg/L Barium 0.270 9/2/2006 2:05:00 AM 0.0200 1 Boron mg/L ND 0.00200 9/2/2006 2:05:00 AM Cadmium mq/L 1 ND Chromium 0.00500 mg/L 1 9/2/2006 2:05:00 AM ND 0.00500 mg/L 1 9/2/2006 2:05:00 AM Cobalt 0.0161 0.00500 9/2/2006 2:05:00 AM Copper mg/L 1 ND 9/2/2006 2:05:00 AM 0.200 1 ma/L Iron ND 0.00500 1 9/2/2006 2:05:00 AM mg/L Lead ND 0.00500 9/2/2006 2:05:00 AM mg/L 1 Manganese ND 0.00500 9/2/2006 2:05:00 AM Molybdenum mg/L 1 9/2/2006 2:05:00 AM Nickel ND 0.00500 mg/L 1 ND 0.00500 mg/L 1 9/2/2006 2:05:00 AM Selenium ND 0.00500 9/2/2006 2:05:00 AM Silver mg/L 1 Uranium 0.00775 0.00500 mg/L 1 9/19/2006 10:09:00 PM 9/2/2006 2:05:00 AM Zinc 0.00600 0.00500 mg/L 1 SEMIVOLATILE ORGANICS BY GC/MS SW8270 Prep Date: 8/28/2006 Analyst: HV ND 9/6/2006 9:00:00 PM 1,2,4,5-Tetrachlorobenzene 10 µg/L 1 ND 9/6/2006 9:00:00 PM 1,2-Diphenylhydrazine 10 µg/L 1 1-Methylnaphthalene ND 10 µg/L 1 9/6/2006 9:00:00 PM ND 10 9/6/2006 9:00:00 PM 2,3,4,6-Tetrachlorophenol µg/L 1 2.4.5-Trichlorophenol ND 10 µg/L 1 9/6/2006 9:00:00 PM 2.4.6-Trichlorophenol ND 10 μg/L 1 9/6/2006 9:00:00 PM 2.4-Dichlorophenol 1 9/6/2006 9:00:00 PM



Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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9/6/2006 9:00:00 PM



Date: September 20, 2006

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 CLIENT:
 BBC International
 Client Sample ID: G Lact MW6

 Work Order:
 0608511
 Collection Date: 8/24/2006 2:54:00 PM

 Project:
 Hess Texaco
 Matrix: WATER

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Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
4-Chloro-3-methylphenol	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
4-Nitrophenol	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
Acenaphthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Acenaphthylene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Anthracene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Benzidine	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Benzo(b)fluoranthene	ND		10	µg/L 1		9/6/2006 9:00:00 PM	
Benzo(g,h,i)perylene	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Bis(2-chloroisopropyl)ether	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Chrysene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Fluoranthene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Fluorene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Hexachloroethane	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Isophorone	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
N-Nitrosodiethylamine	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
N-Nitrosodimethylamine	ND		10	μg/L	1	9/6/2006 9:00:00 PM	
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Naphthalene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Nitrobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Phenanthrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
Pyrene	ND		10	µg/L	1	9/6/2006 9:00:00 PM	
VOLATILES BY GC/MS			SW8260)		Analyst: PC	
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	

Qualifiers: NI

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

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ND - Not Detected at the Reporting Limit

Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW6

 Work Order:
 0608511
 Collection Date: 8/24/2006 2:54:00 PM

 Project:
 Hess Texaco

 Lab ID:
 0608511-05

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,1-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Acrolein	ND		20	µg/L	1	8/30/2006 1:55:00 PM	
Acrylonitrile	ND		10	µg/L	1	8/30/2006 1:55:00 PM	
Benzene	ND		5.0	μg/L	1	8/30/2006 1:55:00 PM	
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Bromomethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chloroform	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Chloromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
m,p-Xylene	ND		10	µg/L	1	8/30/2006 1:55:00 PM	
Methylene chloride	ND		10	μg/L	1	8/30/2006 1:55:00 PM	
o-Xylene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Toluene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 1:55:00 PM	
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 1:55:00 PM	
Surr: 1,2-Dichloroethane-d4	112		70-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: 4-Bromofluorobenzene	105		72.4-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: Dibromofluoromethane	108		71.2-125	%REC	1	8/30/2006 1:55:00 PM	
Surr: Toluene-d8	104		75-125	%REC	1	8/30/2006 1:55:00 PM	
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD	
Chloride	389		10.0	mg/L	20	9/3/2006 9:10:00 PM	
Fluoride	2.18		0.100	mg/L	1	9/3/2006 7:20:00 PM	
Sulfate	489		20.0	mg/L	20	9/3/2006 9:10:00 PM	
Nitrate/Nitrite (as N)	7.49		0.500	mg/L	5	9/7/2006 11:30:00 AM	
Surr: Selenate (surr)	109		80-120	%REC	1	9/3/2006 7:20:00 PM	

ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 19 of 25

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Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: G Lact MW6

 Work Order:
 0608511
 Collection Date: 8/24/2006 2:54:00 PM

 Project:
 Hess Texaco

 Lab ID:
 0608511-05

 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed		
Surr: Selenate (surr)	106		80-120	%REC	20	9/3/2006 9:10:00 PM		
Surr: Selenate (surr)	114		80-120	%REC	5	9/7/2006 11:30:00 AM		
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: LMD 9/3/2006		
NITRITE Nitrogen, Nitrite	0.438		E354.1 0.0200	mg/L	2	Analyst: RPM 8/26/2006		
PH pH	7.02	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006		
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	1,690		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006		

Qualifiers:

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range
- H Analyzed outside of Hold Time
- AR Page 20 of 25

Date: September 20, 2006

 CLIENT:
 BBC International
 Client Sample ID: Duplicate

 Work Order:
 0608511
 Collection Date: 8/24/2006

 Project:
 Hess Texaco

 Lab ID:
 0608511-06
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor		Date Analyzed
MERCURY, TOTAL			SW747()	Prep Date:	9/5/2006	Analyst: JCJ
Mercury	ND		0.000200	mg/L	1		9/5/2006 7:08:44 PM
ICP METALS, TOTAL			SW6020	D	Prep Date:	9/1/2006	Analyst: SA
Aluminum	ND		0.0100	mg/L	1		9/2/2006 2:11:00 AM
Arsenic	0.00505		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Barium	0.0735		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Boron	0.161		0.0200	mg/L	1		9/2/2006 2:11:00 AM
Cadmium	ND		0.00200	mg/L	1		9/2/2006 2:11:00 AM
Chromium	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Cobalt	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Copper	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Iron	ND		0.200	mg/L	1		9/2/2006 2:11:00 AM
Lead	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Manganese	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Molybdenum	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Nickel	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Selenium	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Silver	ND		0.00500	mg/L	1		9/2/2006 2:11:00 AM
Uranium	0.00603		0.00500	mg/L	1		9/19/2006 10:15:00 PM
Zinc	0.00900		0.00500	mg/L	1		9/2/2006 2:11:00 AM
SEMIVOLATILE ORGANICS BY GC/MS			SW827(3	Prep Date:	8/28/2006	Analyst HV
1,2,4,5-Tetrachlorobenzene	ND		10	μg/L	1		9/6/2006 4:55:00 PM
1,2-Diphenylhydrazine	ND		10	µg/L	1		9/6/2006 4:55:00 PM
1-Methylnaphthalene	ND		10	μg/L	1		9/6/2006 4:55:00 PM
2,3,4,6-Tetrachlorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4,5-Trichlorophenol	ND		10	ug/L	1		9/6/2006 4:55:00 PM
2,4,6-Trichlorophenol	ND		10	ug/L	1		9/6/2006 4:55:00 PM
2,4-Dichlorophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4-Dimethylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4-Dinitrophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2,4-Dinitrotoluene	ND		10	µq/L	1		9/6/2006 4:55:00 PM
2,6-Dichlorophenol	ND		10	μg/L	1		9/6/2006 4:55:00 PM
2-Chlorophenol	ND		10	µq/L	1		9/6/2006 4:55:00 PM
2-Methylnaphthalene	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2-Methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
2-Nitrophenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
3&4-Methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM
3,3'-Dichlorobenzidine	ND		10	µg/L	1		9/6/2006 4:55:00 PM
4,6-Dinitro-2-methylphenol	ND		10	µg/L	1		9/6/2006 4:55:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 21 of 25

Lab ID:

Date: September 20, 2006

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BBC International **CLIENT:** 0608511 Work Order: **Project:** Hess Texaco

0608511-06

Collection Date: 8/24/2006

Client Sample ID: Duplicate

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Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed		
4-Chloro-3-methyiphenol	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
4-Nitrophenol	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Acenaphthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Acenaphthylene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Benz(a)anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Benzidine	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Benzo(a)pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Benzo(b)fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Benzo(g,h,i)perylene	ND		10	μg/L	1	9/6/2006 4:55:00 PM		
Benzo(k)fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Bis(2-chloroethyl)ether	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Bis(2-chloroisopropyl)ether	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Chrysene	ND		10	µg/l_	1	9/6/2006 4:55:00 PM		
Di-n-butyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Dibenz(a,h)anthracene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Diethyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Dimethyl phthalate	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Fluoranthene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Fluorene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Hexachlorobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Hexachlorocyclopentadiene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Hexachloroethane	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Indeno(1,2,3-cd)pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Isophorone	ND		10	μg/L	1	9/6/2006 4:55:00 PM		
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
N-Nitrosodiethylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
N-Nitrosodimethylamine	ND		10	μg/L	1	9/6/2006 4:55:00 PM		
N-Nitrosodiphenylamine	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
N-Nitrosopyrrolidine	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Naphthalene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Nitrobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Pentachlorobenzene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Pentachlorophenol	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Phenanthrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
Pyrene	ND		10	µg/L	1	9/6/2006 4:55:00 PM		
VOLATILES BY GC/MS			SW8260	C		Analyst: PC		
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM		
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM		

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

* - Value exceeds Maximum Contaminant Level

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Date: September 20, 2006

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ուսությունը, արտահատարարվելու որոշում։ Հուրը հայտարական հատարանությունը հայտներին հայտներին է հայտարական հատանակությունը էս էս տարանական առաջանական չե **CLIENT: BBC** International Client Sample ID: Duplicate Work Order: 0608511 Collection Date: 8/24/2006 **Project:** Hess Texaco Matrix: WATER

0608511-06 Lab ID:

Analyses	Result	Result Qual		Units	Dilution Factor	Date Analyzed	
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
1,1-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
1,1-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
1,1-Dichloropropene	ND		5.0	μg/L	1	8/30/2006 2:24:00 PM	
1,2-Dibromoethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
1,2-Dichloroethane	ND		5.0	µg/∟	1	8/30/2006 2:24:00 PM	
Acrolein	ND		20	µg/L	1	8/30/2006 2:24:00 PM	
Acrylonitrile	ND		10	µg/L	1	8/30/2006 2:24:00 PM	
Benzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Bromomethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Chlorobenzene	ND		5.0	μg/L	1	8/30/2006 2:24:00 PM	
Chloroform	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Chloromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
m,p-Xylene	ND		10	μg/L	1	8/30/2006 2:24:00 PM	
Methylene chloride	ND		10	µg/L	1	8/30/2006 2:24:00 PM	
o-Xylene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Toluene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 2:24:00 PM	
Vinyl chloride	ND		2.0	μg/L	1	8/30/2006 2:24:00 PM	
Surr: 1,2-Dichloroethane-d4	111		7 0 -125	%REC	1	8/30/2006 2:24:00 PM	
Surr: 4-Bromofluorobenzene	100		72.4-125	%REC	1	8/30/2006 2:24:00 PM	
Surr: Dibromofluoromethane	106		71.2-125	%REC	1	8/30/2006 2:24:00 PM	
Surr: Toluene-d8	99.7		75-125	%REC	1	8/30/2006 2:24:00 PM	
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: PV	
Chloride	173		5.00	mg/L	10	9/6/2006 4:06:00 AM	
Fluoride	0.818		0.100	mg/L	1	9/6/2006 3:44:00 AM	
Sulfate	97.5		10.0	mg/L	10	9/6/2006 4:06:00 AM	
Nitrate/Nitrite (as N)	4.15		0.500	mg/L	5	9/7/2006 11:52:00 AM	
Surr: Selenate (surr)	104		80-120	%REC	1	9/6/2006 3:44:00 AM	

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

P - Dual Column results percent difference > 40% E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

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Date: September 20, 2006

CLIENT:	BBC International				Client S	ample ID: Duplicat	e	
Work Order: Project:	0608511 Hess Texaco				Collec	tion Date: 8/24/200	06	
Lab ID:	0608511-06					Matrix: WATE	ÊR	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
Surr: Selenate	e (surr)	102		80-120	%REC	10	9/6/2006 4:06:00 AM	
Surr: Selenate	e (surr)	119 80-120 %REC 5 9/7/2006 11:52:00						

Surr: Selenate (surr)	119		80-120	%REC	5	9/7/2006 11:52:00 AM
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: LMD 9/3/2006
NITRITE Nitrogen, Nitrite	ND		E354.1 0.0100	mg/L	1	Analyst: RPM 8/26/2006
PH pH	6.89	н	E150.1 0.100	pH units	1	Analyst: RPM 8/26/2006
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	726		E160.1 10.0	mg/L	1	Analyst: RPM 8/29/2006

Qualifiers:

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- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- an tala antara antar an any minimizian tating talan sa ang minima. S - Spike Recovery outside accepted recovery limits
- P Dual Column results percent difference > 40%
- E Value above quantitation range

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- H Analyzed outside of Hold Time
- AR Page 24 of 25

CLIENT:BBC InternationalWork Order:0608511Project:Hess Texaco

Lab ID: 0608511-07

Client Sample ID: Equipment Rinse Collection Date: 8/24/2006 3:45:00 PM

Matrix: WATER

Analyses	Result	Report Dilut Result Qual Limit Units Fact		Dilution Factor	Date Analyzed			
VOLATILES BY GC/MS		SV	N8260)		Analyst: PC		
1,1,1-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
1,1,2,2-Tetrachloroethane	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM		
1,1,2-Trichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
1,1-Dichloroethane	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM		
1,1-Dichloroethene	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM		
1,1-Dichloropropene	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM		
1,2-Dibromoethane	ND		5.0	μg/L	1	8/30/2006 4:52:00 PM		
1,2-Dichlorobenzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
1,2-Dichloroethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Acrolein	ND		20	μg/L	1	8/30/2006 4:52:00 PM		
Acrylonitrile	ND		10	µg/L	1	8/30/2006 4:52:00 PM		
Benzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Bromodichloromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Bromomethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Carbon tetrachloride	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Chlorobenzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Chloroform	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Chloromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
cis-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
cis-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Dichlorodifluoromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Ethylbenzene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
m,p-Xylene	ND		10	µg/L	1	8/30/2006 4:52:00 PM		
Methylene chloride	ND		10	µg/L	1	8/30/2006 4:52:00 PM		
o-Xylene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Tetrachloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Toluene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Trichloroethene	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Trichlorofluoromethane	ND		5.0	µg/L	1	8/30/2006 4:52:00 PM		
Vinyl chloride	ND		2.0	µg/L	1	8/30/2006 4:52:00 PM		
Surr: 1,2-Dichloroethane-d4	113	7	0-125	%REC	1	8/30/2006 4:52:00 PM		
Surr: 4-Bromofluorobenzene	104	72.	4-125	%REC	1	8/30/2006 4:52:00 PM		
Surr: Dibromofluoromethane	110	71.	2-125	%REC	1	8/30/2006 4:52:00 PM		
Surr: Toluene-d8	105	7	5-125	%REC	1	8/30/2006 4:52:00 PM		



ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- H Analyzed outside of Hold Time

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CLIENT:	BBC International
Work Order:	0608511
Project:	Hess Texaco

Date: Sep 20 2006

QC BATCH REPORT

Batch ID: 1	9613	Instrument ID ICF	P7500		Metho	d: SW602	20		- Mar Martiney,		·····	
MBLK	Sample ID:	MBLKW4-090106			<u> </u>		U	nits: mg/		Analysis D	ate: 09/05	j/06 14:55
Client ID:				Run ID: ICP7500_060905A			SeqNo: 942437		Prep Date: 9/	/1/2006	DF: 1	
Analyte		F	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic			ND	0.0050								
Barium			ND	0.0050								
Cadmium		A real of a second s	ND	0.0020			and and the second of the second					1 MR 1975 WALL LARD 1
Chromium			ND	0.0050								
Cobalt	and the second second second	a chi bakan kata sana sa cikina s	ND	0.0050					and the second second second	· · · · · · · · · · · · · · · · · · ·		
Copper			ND	0.0050								
Lead	and the second sec	100 10 km and a km a sa	ND	0.0050								
Manganese	2		ND	0.0050								
Nickel			ND	0.0050					and region to the own of		···· ·· · · · · · · ·	
Selenium			ND	0.0050								
Silver			ND	0.0050								
Zinc			ND	0.0050				t more course cannot a			had haarah aharoo oo aha ya	
1.05	Sampla ID:	MI CSW/ 000106						nito: m.m.(1	Analysia D	oto: 00/01	106 0.20

LCS	Sample ID: MLCSW4-090106					U	nits: mg/L		Analysis Date: 09/02/06 0:39		
Client ID:		Run ID: ICP750	0_060901A		Seq	No: 9418	362	Prep Date: 9/	1/2006	DF: 1	
Analyte	Res	ult PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.049	41 0.0050	0.05		0	98.8	80-121		0		
Barium	0.047	09 0.0050	0.05		0	94.2	79.8-119		0		
Cadmium	0.047	79 0.0020	0.05	and at another the set of the data	0	95.6	79.1-119		0		an na si an
Chromium	0.047	29 0.0050	0.05		0	94.6	79.3-121		0		
Cobalt	0.052	26 0.0050	0.05		0	105	82-121		0	, and a land	an ^{an} lan 16 "Addita" - Li Anan an
Copper	0.047	15 0.0050	0.05		0	94.3	81-120		0		
Lead	0.04	85 0.0050	0.05		0	97	80-118		0	a e consecutor a la f	
Manganese	0.04	34 0.0050	0.05		0	86.8	82-119		0		
Nickel	0.049	36 0.0050	0.05		0	98.7	82-120		0		
Selenium	0.048	14 0.0050	0.05		0	96.3	79.2-118		0		
Silver	0.048	42 0.0050	0.05		0	96.8	80-117	ann a rain man taon a painnean an	0		and the second second
Zinc	0.052	55 0.0050	0.05		0	105	79-118		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

R - RPD outside accepted recovery limits P - Dual Column results percent difference > 40% B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 1 of 32



CLIENT: BBC International

Work Order: Project:

: 0608511 Hess Texaco

QC BATCH REPORT

Batch ID: 19	613 Instrument ID ICP75	00	Method	1: SW6020		NAMES AND ADDRESS OF TAXABLE ADDRESS	a man anna guige agus a sa anna an a a			
MS	Sample ID: 0608575-09AMS			<u></u>	U	nits: mg/L	/	Analysis D	ate: 09/02	/06 3:55
Client ID:		Run ID: ICP750	0_060901A	Se	qNo: 941	904	Prep Date: 9/1/	2006	DF: 1	
Analyte	Resi	ult PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0530	0.0050	0.05	0.0007945	105	80-121	0			
Barium	0.72	0.0050	0.05	0.6631	117	79.8-119	0			0
Cadmium	0.052	82 0.0020	0.05	0.0001334	105	79.1-119	0			·
Chromium	0.050	78 0.0050	0.05	0.001275	99	79.3-121	0			
Cobalt	0.05	32 0.0050	0.05	0.0004028	106	82-121	0			
Copper	0.0493	24 0.0050	0.05	0.001655	95.2	80-120	0			
Lead	0.0526	67 0.0050	0.05	0.0004033	105	80-118	0	dha mar i shar na an sin ina	. 2.555 "Your "Louis" 2008	, n. 18 d'h Brazz harret der s
Manganese	0.0846	64 0.0050	0.05	0.03973	89.8	82-119	0			
Nickel	0.05	12 0.0050	0.05	0.001156	100	82-120	0	addition of a state of a state of a		
Selenium	0.051	56 0.0050	0.05	0.001587	99.9	79.2-118	0			
Silver	0.048	93 0.0050	0.05	-0.0002642	98.4	80-117	0			•
Zinc	0.056	85 0.0050	0.05	0.00643	101	79-118	0			
MSD	Sample ID: 0608575-09AMSD				U	nits: mg/L	,	Analysis D	ate: 09/02	/06 4:01
Client ID:		Run ID: ICP750	0_060901A	Se	qNo: 941	905	Prep Date: 9/1/	2006	DF: 1	
				SPK Ref		Control	RPD Ref		RPD	

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.05162	0.0050	0.05	0.0007945	102	80-121	0.05309	2.81	15	
Barium	0.6844	0.0050	0.05	0.6631	42.6	79.8-119	0.7217	5.31	15	SO
Cadmium	0.05089	0.0020	0.05	0.0001334	102	79.1-119	0.05282	3.72	15	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Chromium	0.05031	0.0050	0.05	0.001275	98.1	79.3-121	0.05078	0.93	15	
Cobait	0.05248	0.0050	0.05	0.0004028	104	82-121	0.0532	1.36	15	
Copper	0.04926	0.0050	0.05	0.001655	95.2	81-120	0.04924	0.0406	15	
Lead	0.05214	0.0050	0.05	0.0004033	103	80-118	0.05267	1.01	15	
Manganese	0.0839	0.0050	0.05	0.03973	88.3	82-119	0.08464	0.878	15	
Nickel	0.0503	0.0050	0.05	0.001156	98.3	82-120	0.0512	1.77	15	
Selenium	0.05087	0.0050	0.05	0.001587	98.6	79.2-118	0.05156	1.35	15	
Silver	0.04919	0.0050	0.05	-0.0002642	98.9	80-117	0.04893	0.53	15	
Zinc	0.05598	0.0050	0.05	0.00643	99.1	79-118	0.05685	1.54	15	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 2 of 32



Project:

BBC International

Work Order: 0608511

QC BATCH REPORT

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Hess Texaco

Batch ID: 19613 Instrument ID ICP7500 Method: SW6020

DUP	DUP Sample ID: 0608575-09ADUP				Units: mg/L				Analysis Date: 09/02/06 3:31			
Client ID:	Run I	D: ICP750	0_060901A		Sec	aNo: 9419	901	Prep Date: 9/1/2	2006	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	ND	0.0050	0		0	0	0-0	0.0007945	0	25		
Barium	0.641	0.0050	0	Variable State	0	0	0-0	0.6631	3.39	25		
Cadmium	ND	0.0020	0		0	0	0-0	0.0001334	0	25		
Chromium	0.001022	0.0050	0		0	0	0-0	0.001275	0	25	J	
Cobalt	0.0003393	0.0050	0		0	0	0-0	0.0004028	0	25	J	
Copper	0.001538	0.0050	0		0	0	0-0	0.001655	0	25	J	
Lead	0.0004733	0.0050	0		0	0	0-0	0.0004033	0	25	J	
Manganese	0.03879	0.0050	0		0	0	0-0	0.03973	2.39	25		
Nickel	0.001091	0.0050	0		0	0	0-0	0.001156	0	25	J	
Selenium	ND	0.0050	0		0	0	0-0	0.001587	0	25		
Silver	ND	0.0050	0		0	0	0-0	-0.0002642	0	25		
Zinc	0.008021	0.0050	0		0	0	0-0	0.00643	22	25		
The followi	ng samples were analyzed in this batch:	00	508511-01D	06	085	11-02D	06	08511-03D				

0608511-04D 0608511-05D 0608511-06D

ND - Not Detected at the Reporting Limit

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O - Referenced analyte value is > 4 times amount spiked

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E - Value above quantitation range

QC Page: 3 of 32

CLIENT:	BBC International

0608511 Work Order: Project:

Hess Texaco

QC BATCH REPORT

						· · · · · · · · · · · · · · · · · · ·					
Batch ID: 19	9635 Instrument ID Mercury		Method	: SW747	70			n caunty can reported descents county cause	an tin tanang aks siya ana akarang san		
MBLK	Sample ID: GBLKW3-090506					U	nits: mg/l	_	Analysis D	ate: 09/05/	06 18:34
Client ID:	Run	ID: MERCI	JRY_060905	5C	SeqN	o: 942	523	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020									
LCS	Sample ID: GLCSW3-090506		· · ·			U	nits: mg/I		Analysis D	ate: 09/05/	06 18:36
Client ID:	Run	ID: MERCI	JRY_060905	5C	SeqN	o: 942	524	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00506	0.00020	0.005		0	101	85-115		0		
LCSD	Sample ID: GLCSDW3-090506					υ	nits: mg/l	_	Analysis D	ate: 09/05 /	06 18:38
Client ID:	Run	ID: MERCI	JRY_060905	5C	SeqN	o: 942	525	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00504	0.00020	0.005		0	101	85-115	0.0050	6 0.396	5 20	
MS	Sample ID: 0608613-08CMS					U	nits: mg/l		Analysis D	ate: 09/05 /	06 18:47
Client ID:	Run	ID: MERCI	URY_060905	SC	SeqN	o: 942 :	528	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00483	0.00020	0.005	0.0000	55	95.5	85-115		0		
MSD	Sample ID: 0608613-08CMSD					U	nits: mg/l		Analysis D	ate: 09/05/	06 18:48
Client ID:	Run	ID: MERCI	URY_060908	5C	SeqN	o: 942	529	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00498	0.00020	0.005	0.0000	55	98.5	85-115	0.0048	3 3.06	20	
DUP	Sample ID: 0608613-08CDUP		· · · ·			υ	nits: mg/l		Analysis D	ate: 09/05/	06 18:45
Client ID:	Run	ID: MERCI	URY_060905	5C	SeqN	o: 942 :	527	Prep Date: 9/	5/2006	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	9	6REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0		0	0	0-0	0.00005	5 (20	
The follow	ing samples were analyzed in this batch	1: 06 0f	608511-01D 608511-04D	00	308511 308511	-02D -05D	06 06	08511-03D 08511-06D			

------ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in assoc. Method Blank J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits U - Analyzed for but not detected O - Referenced analyte value is > 4 times amount spiked P - Dual Column results percent difference > 40% E - Value above quantitation range

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BBC International r: 0608511

Work Order:0608511Project:Hess Texaco

QC BATCH REPORT

Batch ID:	19861	Instrument ID ICPMS02	12 Yo 2010 THE THE THE THE DESIGN I SAV	Method	: SW602	0		مور و مراجع المراجع الم			
MBLK	Sample ID: M	BLKW1-091806					Units: mg/	L A	Analysis D	ate: 09/19 /	06 19:38
Client ID:		Run I	ID: ICPMS	02_060919A		SeqNo: 9	52120	Prep Date: 9/18	/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium		ND	0.0050	an and a sub-sub-sub-sub-sub-sub-sub-							
LCS	Sample ID: M	LCSW1-091806					Units: mg/	L A	Analysis D	ate: 09/19 /	/06 19:44
Client ID:		Run I	ID: ICPMS	02_060919A		SeqNo: 9	52121	Prep Date: 9/18	/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium		0.04614	0.0050	0.05		0 92.	3 80-120	0	nten ar olar en occidade enter o	· marte a sector Materiale Autoreter	
MS	Sample ID: 00	608511-01DMS				<u></u>	Units: mg/	Ľ A	Analysis D	ate: 09/19/	/06 20:07
Client ID: (G Lact MW1	Run I	ID: ICPMS	02_060919A	L L	SeqNo: 9	52125	Prep Date: 9/18	3/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium	-1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997	0.05551	0.0050	0.05	0.00532	24 10	0 80-120	0	an an airean an an Sandar an	ra transcutta buter.	
MSD	Sample ID: 0	608511-01DMSD					Units: mg/	ïL A	Analysis D	ate: 09/19	/06 20:13
Client ID:	G Lact MW1	Run	D: ICPMS	02_060919A	L	SeqNo: 952126		Prep Date: 9/18	3/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium		0.05597	0.0050	0.05	0.00532	24 10	1 80-120	0.05551	0.825	15	e etta tar i tarani ia
DUP	Sample ID: 0	608511-01DDUP		<u> </u>			Units: mg/	۲L /	Anatysis D	ate: 09/19	/06 19:55
Client ID;	G Lact MW1	Run	D: ICPMS	02_060919A	۱.	SeqNo: 9	52123	Prep Date: 9/18	3/2006	DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C ^{Limit}	RPD Ref Value	%RPD	RPD Limit	Qual
Uranium		0.005577	0.0050	0		0	0	0.005324	4.64	20	
The follow	wing samples we	re analyzed in this batch:	: 0	608511-01D 608511-04D	06 06	08511-02[08511-05[00 C	508511-03D 508511-06D			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

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BBC International r: 0608511

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QC BATCH REPORT

Work Order:0608511Project:Hess Texaco

Batch ID: 19509 Instrume	ent ID SV-2		Metho	d: SW827	70					. Theodology systematics
MBLK Sample ID: SBLKW1-	060828				Un	its: µg/L		Analysis D	ate: 08/29	/06 14:08
Client ID:	Run II	D: SV-2_0	60830A		SeqNo: 9385	58	Prep Date: 8/	28/2006	DF: 1	
				SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2-Diphenylhydrazine	ND	10								
1-Methylnaphthalene	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10		age to be a second s					ann a sannar is na haos ana saorna	
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10	aning an inclusion of a law of	STAIN THAT IS		ana mining panalanang	alan sena na sena de la composición de	iatan kinati ta uso	entre d'Ar marine tai	a na nanaritran na
2.4-Dimethylphenol	ND	10								
2.4-Dinitrophenol	ND	10								n na at constant in the
2.4-Dinitrotoluene	ND	10								
2 6-Dicblorophenol	ND	10								
2-Chlorophenol	ND	10								
2-Methylnaphthalene	ND	10							. .	
2-Methylabenol	ND	10								
		10								
		10								
3.21 Diablarabastidiaa		10	1999 - State State State - Sta	-, ಮನ್ನುವರ್ಷಿಕನ್	companyation in consideration reco	Constitution of statistical	antes e cartantes cartantes	ann can che a sear thailte		valet e vice est
4.6 Disitre 2 methylahonal		10								
4,6-Diritio-z-methylphenol	ND	10								• 100 • • 11 • • • • • •
4-Chloro-3-methylphenol	ND	10								
	ND	10		<u></u>						
Acenaphinene	ND	10								
Acenaphthylene	ND	10	· · · · · · · · · ·							
Anthracene	ND	10								
Benz(a)anthracene	ND	10		1		to you in Part of the state				
Benzidine	ND	10								
Benzo(a)pyrene	ND	10							• · · · · · · · · · · · · ·	
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10					a na anna an			
Benzo(k)fluoranthene	ND	10								
Bis(2-chloroethyl)ether	ND -	10		······ • •••• •						
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10	• •== === == •== •= •== •== •							
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10		an uraufu ar takur iya.	a han a saanna dha baadha an ar ar an ar	u. La air actu	1 shifte a tale that a tale 1 st	200 No. 6 7 UN Territori	ng 1.1 mar Manu	even er e
Dibenz(a,h)anthracene	ND	10								
Diethyl phthalate	ND	10					-			
Dimethyl phthalate	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10					······	er an tan a tan mar na na		
ND - Not Detected at the Reporting Lim	it	S - S	pike Recover	ry outside au	ccepted recovery	limits	B - Analyte	detected in as	soc. Metho	d Blank
J - Analyte detected below quantitation I	limits	R - R	PD outside a	accepted rec	overy limits		U - Analyzed	d for but not a	letected	
Ω - Referenced analyte value is > 4 time	s amount spiked	P - D	ual Column	results nerv	ent difference >	40%	E Valua ab	ava quantitat	ion ronau	

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Project:

BBC International

Work Order: 0608511

QC BATCH REPORT

Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Method: SW8270
Hexachlorocyclopentadien	e ND	10	ang and a set of a se
Hexachloroethane	ND	10	
Indeno(1,2,3-cd)pyrene	ND	10	
Isophorone	ND	10	а - 11-16 ценица маля на ек лит Мар I (Май). Принцирани страница
N-Nitroso-di-n-butylamine	ND	10	
N-Nitrosodiethylamine	ND	10	
N-Nitrosodimethylamine	ND	10	
N-Nitrosodiphenylamine	ND	10	a na anna an anna ann an ann ann ann an
N-Nitrosopyrrolidine	ND	10	
Naphthalene	ND	10	
Nitrobenzene	ND	10	
Pentachlorobenzene	ND	10	
Pentachlorophenol	ND	10	
Phenanthrene	ND	10	
Pyrene	ND	10	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

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Batch ID: 19509

BBC International

Work Order:0608511Project:Hess Tex

QC BATCH REPORT

Hess Texaco

Instrument ID SV-2 Method: SW8270

MBLK Sample ID: SBLKW1-0608	328				Uı	nits: µg/L	*	Analysis D	ate: 09/06	6/06 13:16
Client ID:	Run I	D: SV-2_0	60830A		SeqNo: 9440	005	Prep Date: 8/	28/2006	DF: 1	
				SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
1,2,4,5-Tetrachlorobenzene	ND	10								
1,2-Diphenylhydrazine	ND	10								
1-Methylnaphthalene	ND	10								
2,3,4,6-Tetrachlorophenol	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2,4-Dichlorophenol	ND	10								
2,4-Dimethylphenol	ND	10								
2,4-Dinitrophenol	ND	10								
2,4-Dinitrotoluene	ND	10			· · · · · · · · · · · · · · · · · · ·					
2,6-Dichlorophenol	ND	10								
2-Chlorophenol	ND	10	and the second second second second	, ₁₀ , 20, 20, 20, 20, 20, 20, 20, 20, 20, 20						ing i anno an an an ann
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10				· · · · · · · · · · · · · · · · · · ·		na mari man na any mananana a manana a		ALL-1911 OF BOAT CONTRACTOR CONTRACTOR
2-Nitrophenol	ND	10								
3&4-Methylphenol	ND	10						and the second of the second second second		
3,3 ⁻ -Dichlorobenzidine	ND	10								
4,6-Dinitro-2-methylphenol	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10					ne nay - in Room I. Singer and South and South South South	annen ann an a chuir annan Caarra I Marra		
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Benzo(a)pyrene	ND	10	and a second	9.87 2 M 2010 175	alii i Tiliin Maradak	nun turkin d	na na sana na s	888 - 25 W. 1997, 1997 - 1998 - 1998	the fighter and the second	Personal Contractor Construction
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10		·····	、 <u></u>					
Benzo(k)fluoranthene	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10					en van de la canada e an oren de la canada e an oren de la canada e an oren de la canada e a canada e a canada e	11.00 0.00 100 .000		nant nartunda in a das un curra das in
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10		with a second second second				anna cranchistar oli man un		an a t
Dibenz(a,h)anthracene	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
Fluoranthene	ND	10	·········	Non Grand Mar of The of Standard	That's I at B also decreases a adjunction of					
Fluorene	ND	10								
Hexachlorobenzene	ND	10								a addimetri do Ho rnan (no mar e al. vo
ND - Not Detected at the Reporting Limit		S - S	pike Recove	ry outside a	ccepted recover	v limits	B - Analvte	detected in a	ssoc. Meth	od Blank
I Analyte detected below constitution limits		Бг		occented re-	oueru limita			d for but n=t	dataated	
b - that ye detected below qualitation minis	,	N - F		i.	a non	100.	o - Anaryze			
O - Referenced analyte value is > 4 times am	ount spiked	P - E	Jual Column	results perc	ent difference >	• 40%	E - Value al	oove quantita	tion range OC Pa	age: 8 of 3



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Project:

BBC International

QC BATCH REPORT

Work Order: 0608511 Hess Texaco

Batch ID: 19509	Instrument ID SV-2		Method: SV	V8270	
Hexachlorocyclopentadiene	e ND	10		9997 - T. S. Wall W	
Hexachloroethane	ND	10			
Indeno(1,2,3-cd)pyrene	ND	10			
Isophorone	ND	10			
N-Nitroso-di-n-butylamine	ND	10			
N-Nitrosodiethylamine	ND	10			
N-Nitrosodimethylamine	ND	10	nny wegen cooppe googless googless and the second		
N-Nitrosodiphenylamine	ND	10			
N-Nitrosopyrrolidine	ND	10			
Naphthaiene	ND	10			
Nitrobenzene	ND	10		THE THE LOCAL MATTIN	
Pentachlorobenzene	ND	10			
Pentachlorophenol	ND	10			
Phenanthrene	ND	10			
Pyrene	ND	10	10.00 INTO AND INCOME & 12 YO M		

the second s ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

The second second

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 9 of 32

CLIENT: BBC International Work Order: 0608511

Batch ID: 19509

Project: Hess Texaco

QC BATCH REPORT

Instrument ID SV-2

Method: SW8270

LCS Sample ID: SLCSW1-06082	Sample ID: SLCSW1-060828					U	nits: µg/L	Ana	alysis D	ate: 08/30	/06 11:15
Client ID:	Run	ID: SV-2_06	50830A		SeqNo: 938560		Prep Date: 8/28/20	006	DF: 1		
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value %	6RPD	Limit	Qual
1,2,4,5-Tetrachlorobenzene	52.59	10	50		0	105	39.4-115	O			
1,2-Diphenylhydrazine	31.55	10	50		0	63.1	59-134	0			*****
1-Methylnaphthalene	34.68	10	50		0	69.4	58.5-137	0			
2,3,4,6-Tetrachiorophenol	68.79	10	100		0	68.8	61.3-125	0			
2,4,5-Trichlorophenol	67.37	10	100		0	67.4	59.2-126	0			
2.4.6-Trichlorophenol	69.24	10	100	turio functione record	0	69.2	59.8-120	0	ور ، محمد مول ، و	magan si managa si magan sar	Santanian . A Manhart
2,4-Dichlorophenol	69.65	10	100		0	69.6	57.6-121	0			
2.4-Dimethylphenol	67.21	10	100	- Mar - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 184 - 1	0	67.2	57.2-115	0			
2,4-Dinitrophenol	67.32	10	100		0	67.3	46.2-124	0			
2,4-Dinitrotoluene	34.63	10	50		0	69.3	62.9-126	0		·	
2,6-Dichlorophenol	93.6	10	100		0	93.6	63.1-120	0			
2-Chlorophenol	71.49	10	100		0	71.5	54.3-115	0			
2-Methylnaphthalene	38.09	10	50		0	76.2	51.4-124	0			
2-Methylphenol	74.44	10	100		0	74.4	41.5-115	0			
2-Nitrophenol	68.67	10	100		0	68.7	57.2-115	0			
3&4-Methylphenol	110.8	10	150		0	73.9	33.3-115	0			
3,3'-Dichlorobenzidine	29.08	10	50	janj}t¦an antanan geraga on Ara	0	58.2	26.7-118	0	• • • • • • • • • • • • • • • • • • •	Ar andreas i lea e la l	and a second
4,6-Dinitro-2-methylphenol	70.53	10	100		0	70.5	60.1-129	0			
4-Chloro-3-methylphenol	69.15	10	100	THE TO BE FOULTHEAT I LONG TO	0	69.2	55.5-120	0		And some is at your	the manual recent reactions and
4-Nitrophenol	75.35	10	100		0	75.4	17-100	0			
Acenaphthene	34.44	10	50		0	68.9	63.1-120	0			
Acenaphthylene	34.09	10	50		0	68.2	62.8-118	0			
Anthracene	34.31	10	50		0	68.6	64.5-128	0	<u> </u>	A	
Benz(a)anthracene	36.31	10	50		0	72.6	60.1-125	0			
Benzidine	15.53	10	50		0	31.1	10-115	0			10 Toris 1000 144
Benzo(a)pyrene	34.2	10	50		0	68.4	56.7-135	0			
Benzo(b)fluoranthene	36.33	10	50	and the second	0	72.7	50.5-134	0		No	
Benzo(g,h,i)perylene	34.14	10	50		0	68.3	52.2-138	0			
Benzo(k)fluoranthene	34.32	10	50		0	68.6	60-140	0			an an an an an an an
Bis(2-chloroethyl)ether	35.88	10	50		0	71.8	62.3-115	0			
Bis(2-chloroisopropyl)ether	38.14	10	50		0	76.3	54.9-117	0	1 1 1 m 1 ⁰ 1	WHITTER IS the inter the start the set	AUG
Bis(2-ethylhexyl)phthalate	35.56	10	50		0	71.1	59.1-136	0			
Chrysene	35.22	10	50		0	70.4	62.4-125	0	••••••••••	na a seconda a seconda	
Di-n-butyl phthalate	35.66	10	50		0	71.3	64.6-133	0			
Dibenz(a,h)anthracene	34.87	10	50	an o a gray Piner an ann an	0	69.7	49.2-136	nin u sauta anno a taos anno 15 I		anta internetation (historia)	an an a' an 100 an 1
Diethyl phthalate	34.27	10	50		0	68.5	62.7-129	0			
Dimethyl phthalate	34.62	10	50		0	69.2	63.7-126	0		ander fan een de Angele ander an angele an angele	
Fluoranthene	35.4	10	50		0	70.8	61.2-128	0			
Fluorene	34.44	10	50		0	68.9	64.9-121	0	6	• • • • • •	
Hexachlorobenzene	33.57	10	50		0	67.1	65.6-126	0			
			-	• • • • • • • • • • • •							· · · · · · · · · · · · ·

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected



P - Dual Column results percent difference > 40%

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

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CLIENT: Work Order:

BBC International 0608511

QC BATCH REPORT

Project: He	ss Texaco								
Batch ID: 19509	Instrument ID SV-	2		Method:	SW8270				
Hexachlorocyclopentadie	ne 3	0.78	10	50	0	61.6	43.4-120	0	
Hexachloroethane	3	5.15	10	50	0	70.3	60-115	0	
Indeno(1,2,3-cd)pyrene	3	2.77	10	50	0	65.5	50.3-123	0	
Isophorone	3	5.19	10	50	0	70.4	62-121	0	
N-Nitrosodimethylamine	3	5.79	10	50	0	71.6	18-115	0	an an an ann an Anna ann an Anna an Ann
N-Nitrosodiphenylamine		35.5	10	50	0	71	65.1-136	0	
Naphthalene	3	4.77	10	50	0	69.5	59.9-115	0	
Nitrobenzene	3	5.06	10	50	0	70.1	59.1-134	0	
Pentachlorobenzene	5	5.13	10	50	0	110	40-130	0	a and a second secon
Pentachlorophenol	6	8.54	10	100	0	68.5	51.3-134	0	
Phenanthrene	3	4.58	10	50	0	69.2	65.2-122	0	· ••••••••••••••••••••••••••••••••••••
Pyrene	3	5.41	10	50	0	70.8	59.7-121	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

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Project:

BBC International

0608511 Work Order:

QC BATCH REPORT

Hess Texaco

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LCSD Sample ID:	SLCSDW1-060828					U	nits: µg/L	A	nalysis Da	ate: 08/30/	/06 11:4
Client ID:	Ru	n ID: SV-2_0	60830A		See	qNo: 938	5 61 F	Prep Date: 8/28	/2006	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
1 2 4 5-Tetrachlorobenzer	ne 54.39	10	50		0	109	39.4-115	52.59	3.37	20	
1.2-Diphenvlhvdrazine	31.85	10	50		0	63.7	59-134	31.55	0.921	20	
1-Methylnaphthalene	35.77	10	50		0	71.5	58.5-137	34.68	3.08	20	
2.3.4.6-Tetrachlorophenol	70.43	10	100		0	70.4	61.3-125	68.79	2.36	20	
2.4.5-Trichlorophenol	68.44	10	100		0	68.4	59.2-126	67.37	1.57	20	
2.4.6-Trichlorophenol	69.27	10	100		0	69.3	59.8-120	69.24	0.0465	20	
2.4-Dichlorophenol	71.63	10	100		0	71,6	57.6-121	69.65	2.81	20	
2.4-Dimethylphenol	69.59	10	100		0	69.6	57.2-115	67.21	3.48	20	
2.4-Dinitrophenol	71.42	10	100		0	71.4	46.2-124	67.32	5.91	20	
2.4-Dinitrotoluene	35.58	10	50		0	71.2	62.9-126	34.63	2.7	20	
2.6-Dichlorophenol	97.28	10	100		0	97.3	63.1-120	93.6	3.86	20	
2-Chlorophenol	72.58	10	100		0	72.6	54.3-115	71.49	1.51	20	
2-Methylnaphthalene	39.2	10	50		0	78.4	51.4-124	38.09	2.88	20	
2-Methylphenol	77.66	10	100		0	77.7	41.5-115	74.44	4.23	20	
2-Nitrophenol	70.14	10	100		0	70.1	57.2-115	68.67	2.12	20	
3&4-Methylphenol	115.3	10	150	enan caan aan ar d	0	76.8	33.3-115	110.8	3.97	20	an fan in Station an an an
3.3'-Dichlorobenzidine	26.13	10	50		0	52.3	26.7-118	29.08	10.7	20	
4 6-Dinitro-2-methylpheno	ol 71.39	10	100		0	71.4	60.1-129	70.53	1.22	20	* ********************
4-Chloro-3-methylphenol	72.32	10	100		0	72.3	55.5-120	69.15	4.48	20	
4-Nitrophenol	76.36	10	100		0	76.4	17-100	75.35	1.32	20	
Acenaphthene	35.15	10	50		0	70.3	63.1-120	34.44	2.04	20	
Acenaphthylene	34.6	10	50		0	69.2	62.8-118	34.09	1.5	20	The of the called rape of
Anthracene	35.15	10	50		0	70.3	64.5-128	34.31	2.44	20	
Benz(a)anthracene	36.29	10	50		0	72.6	60.1-125	36.31	0.0552	20	
Benzidine	14.21	10	50		0	28.4	10-115	15.53	8.87	20	
Benzo(a)pyrene	3		50	and a state of the second s	0	69.5	56.7-135	34.2	1.55	20	ar" "tar watewer-s
Benzo(b)fluoranthene	36.99	10	50		0	74	50.5-134	36.33	1.81	20	
Benzo(a,h,i)pervlene	33.76	10	50		0	67.5	52.2-138	34.14	1.11	20	
Benzo(k)fluoranthene	35.42	10	50		0	70.8	60-140	34.32	3.18	20	
Bis(2-chloroethyl)ether	36.58	10	50		0	73.2	62.3-115	35.88	1.95	20	
Bis(2-chloroisopropyl)eth	er 39.18	10	50		0	78.4	54.9-117	38.14	2.71	20	
Bis(2-ethylhexyl)phthalate	35.84	10	50	and a contract gaining apply the second	0	71.7	59.1-136	35.56	0.791	20	•
Chrysene	35.15	10	50		0	70.3	62.4-125	35.22	0.192	20	
Di-n-butyl phthalate	36.33	10	50		0	72.7	64.6-133	35.66	1.84	20	
Dibenz(a,h)anthracene	34.51	10	50		0	69	49.2-136	34.87	1.04	20	
Diethyl phthalate	35.69	10	50		0	71.4	62.7-129	34.27	4.08	20	
Dimethyl phthalate	35.6	10	50		0	71.2	63.7-126	34.62	2.78	20	
Fluoranthene	36.09	10	50		0	72.2	61.2-128	35.4	1.93	20	
Fluorene	35.37	10	50		0	70.7	64.9-121	34.44	2.67	20	
Hexachlorobenzene	33.74	10	50		0	67.5	65.6-126	33.57	0.515	20	

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits P - Dual Column results percent difference > 40% U - Analyzed for but not detected E - Value above quantitation range

O - Referenced analyte value is > 4 times amount spiked

QC Page: 12 of 32



CLIENT: BBC International

0608511

Work Order:

QC BATCH REPORT



ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 13 of 32



CLIENT: BBC International

Work Order:0608511Project:Hess Texaco

QC BATCH REPORT

Batch ID: R41162	Instrument ID V	DA1	· · · · · · · · · · · · · · · · · · ·	Metho	d: SW82 0	60		-	Winner of the African Manual of a set of additional and		
MBLK Sample ID:	VBLKW-0828						Units: µg/L	-	Analysis D	ate: 08/28	3/06 11:51
Client ID:		Run		060830A		SegNo: 93	38115	Prep Date:	-	DF: 1	
Analvte		Result	PQL	SPK Val	SPK Ref Value	%RE	Control C Limit	RPD Ref Value	%RPD	RPD Limit	Qual
••••••••••••••••••••••••••••••••••••••	annen annen on eo mero en anne anne anne annen ann	ND	5.0		ngagana ya amar ara aktorik. Wash	T and an application of many restoration					n - Paris and many mount
1,1,1-1 richloroethane		ND	5.0								
1,1,2,2-1 etrachioroethane	:		5.0								
1,1,2-Thenioroethane			5.0								
1,1-Dichloroethane			5.0								
1,1-Dichloroethene	an a manage of the second and the second and the second of the		5.0				ant a W Yook States I - In				·
1,1-Dichloropropene			5.0								
1.2-Diblomoetnane			5.0								
1,2-Dichlorobenzene			5.0								
	Warner 19 an a fan an ar fan i gerafin sjon den om gjereg		20			· · · · · · · · · · · · · · · · · · ·			1 ABT 1 A 10 10 10 10 10		
Acrolonitrile			10								
Renzono			5.0					deservation of the second second			
Bromodichloromethane		ND	5.0								
Bromomethane		ND	5.0								in in the standard
Carbon tetrachloride		ND	5.0								
Chlorobenzene	I will see V to I I A COMP TO A . A	ND	5.0			er an skerete blevet af skerete før		and a start and a second	·		
Chloroform		ND	5.0								
Chloromethane	· ··· ······	ND	5.0						nongen la face esta en s		
cis-1 2-Dichloroethene		ND	5.0								
cis-1.3-Dichloropropene			5.0							·	
Dichlorodifluoromethane		ND	5.0								
Ethylbenzene		ND	5.0			1. No. 1. 1. 1. 1. 1. 1. 1.			A		
m.p-Xvlene		ND	10								
Methylene chloride		ND	10								
o-Xvlene		ND	5.0								
Tetrachloroethene	an a	ND	5.0		, n د روهه برده الاهل، منه	anan katha waxaa walita	$\label{eq:constraint} \begin{split} \mathcal{U}_{n} &= \mathcal{A}_{n} \sigma_{n}, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	1.19. 19. 19. 19. 19. 19. 19. 19. 19. 19	و الجريرة بالا ما ما ما ماركة ما	**************	. 21 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -
Toluene		ND	5.0								
trans-1,2-Dichloroethene	1 100 MB 1071 MB 11 10 100 100 100 10 10 10 10	ND	5.0	1.000 C. 1.000 W. K. W. I							
trans-1,3-Dichloropropene	2	ND	5.0								
Trichloroethene	ni. Anarola Mariji i Tanaka Kanala arijina nigolana	ND	5.0	nda navje da o da o se o dan 1 collate de o		A. 11	·	s service of property formers	an ay ay a sana ay ang ay		
Trichlorofluoromethane		ND	5.0								
Vinyl chloride		ND	2.0			tano ta tana tan unua tu ayaman			, with the state of the second state		
Surr: 1,2-Dichloroethar	e-d4	54.16	5.0	50		0 108	8 70-125	5	0		
Surr: 4-Bromofluorober	nzene	54.64	5.0	50		0 109	9 72.4-12	5	0		
Surr: Dibromofluorome	thane	54.42	5.0	50		0 109	9 71.2-12	5	0		
Surr: Toluene-d8		53.91	5.0	50		0 108	3 75-125	5	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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

an our mouth could dance

B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

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QC Page: 14 of 32

CLIENT: Work Order:

Project:

BBC International •: 0608511

Hess Texaco

QC BATCH REPORT

Batch ID: R41162	Instrument ID VOA1	n i sana	Metho	d: SW826)				access strangenger mitter offent in all text	The star approximate states watching	
LCS Sample ID: V	LCSW-0828					U	nits: µg/L		Analysis D	ate: 08/28	06 12:1 9
Client ID:	Run	ID: VOA1_	060830A		SeqNo	: 938	116 P	rep Date:		DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value	%	REC	Limit	Value	%RPD	Limit	Qual
1,1,1-Trichloroethane	51.42	5.0	50		0	103	79.6-120		0		
1,1,2,2-Tetrachloroethane	46.71	5.0	50		0 9	93.4	78.9-121		0		
1,1,2-Trichloroethane	47.88	5.0	50		0 9	95.8	80-120		0		
1,1-Dichloroethane	46.02	5.0	50		0	92	74.2-122		0		···
1,1-Dichloroethene	49.88	5.0	50		0 9	99.8	75.8-122		0		
1,1-Dichloropropene	51.08	5.0	50		0	102	80-120		0		
1.2-Dibromoethane	48.12	5.0	50		0 9	96.2	80-120		0		
1,2-Dichlorobenzene	48.22	5.0	50		0 9	96.4	80-120		0		
1,2-Dichloroethane	48.5	5.0	50		0	97	78.8-120		0		
Acrolein	93.34	20	100		0 9	93.3	68.9-129	ayonggan ta saan saan affirin taan ti 🥆 tim	0		· · · · · · · · · · · · · · · · · · ·
Acrylonitrile	89.72	10	100		0 8	89.7	68.8-129		0		
Benzene	46.61	5.0	50		0 9	93.2	80-120		0		allower to the second of the second
Bromodichloromethane	51.03	5.0	50		0	102	80-120		0		
Bromomethane	53.66	5.0	50	annan marinta (n. 1919) a san adaman in	0	107	52.8-147		0		
Carbon tetrachloride	54.31	5.0	50		0	109	76.8-120		0		
Chlorobenzene	49.43	5.0	50		0 9	98.9	80-120		0		
Chloroform	48.31	5.0	50		0 9	96.6	80-120		0		
Chloromethane	45.13	5.0	50		0 9	90.3	63.5-133		0	·· · · · · · ·	
cis-1,2-Dichloroethene	46.16	5.0	50		0 9	92.3	80-120		0		
cis-1,3-Dichloropropene	50,44	5.0	50		0	101	80-120		0		
Dichlorodifluoromethane	51.48	5.0	50		0	103	68.6-126		0		
Ethylbenzene	48.82	5.0	50	ագրությունը _ա ղը մին օրուց ներերնե	0 9	97.6	80-120		0		
m.p-Xvlene	98.98	10	100		0	99	80-120		0		
Methvlene chloride	49.6	10	50		0 9	99.2	74.7-120		0		
o-Xylene	49.73	5.0	50		0 9	99.5	80-120		0		
Tetrachloroethene	51.47	5.0	50	angener valle ander endersten kand die	0	103	80-120		unados nant i tra atr 0	19.20 9.4 42406 . 2 4 (51) -	-770, 97 1.547 - 1 5 anao a
Toluene	49,29	5.0	50		0 9	98.6	80-120		0		
trans-1,2-Dichloroethene	48.52	5.0	50		0	97	75.9-122		0		
trans-1,3-Dichloropropene	51.08	5.0	50		0	102	80-120		0		
Trichloroethene	50.24	5.0	50		0	100	80-120		0		·
Trichlorofluoromethane	53.05	5.0	50		0	106	70.3-126		0		
Vinyl chloride	47.89	2.0	50	n, haannakaan , maa 1, 10 nd 100000 (kano)	0	95.8	76.2-121	ayanggalanan orde tiyo ana ara ara	0		
Surr: 1,2-Dichloroethane	-d4 52.86	5.0	50		0	106	70-125		0		
Surr: 4-Bromofluorobenz	ene 55.31	50	50		0	111	72 4-125	10. 10. 10. 10. 10. 10. 10. 10. 10.	0	· · · · · · · · · · · · · · ·	

ND - Not Detected at the Reporting Limit

Surr: Dibromofluoromethane

Surr: Toluene-d8

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

0

0

O - Referenced analyte value is > 4 times amount spiked

53.51

53.04

5.0

5.0

50

50

P - Dual Column results percent difference > 40%

S - Spike Recovery outside accepted recovery limits

0

0

107

106

71.2-125

75-125

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

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Project:

Work Order: 0608511 Hess Texaco

QC BATCH REPORT

Batch ID: R41162	Instrument ID VO	A1	a data di se apparte contracto de la contracto de	Metho	d: SW826	50	anna music agents is anna anna		an anna a tha ing san ann ann a		· · · · · · · · · · · · · · · · · · ·	Ar - 18
MS Sample	ID: 0608518-01AMS			1970 - S. 1 1970 - S. 1970 - S. 19 1970 - S. 1970 - S. 19			U	nits: µg/L		Analysis [Date: 08/28	/06 14:40
Client ID:		Run	ID: VOA1_0	60830A		Se	qNo: 938	120	Prep Date:		DF: 25	
Analyte	F	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1 1 1 Trichloroothana	n aan in de la verste en ne. Y Voorsegender onder in die Mender en	1120	120	1250		0	00.3	70.6-120		0	** a.c. 1/2	
1,1,7-Trichloroelliane		129	120	1250		 n	90.3	78 9-121	······································	0		** ** ****
1,1,2,2-1 etidunioidett	nane	1223	120	1250		0	90.5 07	80-120		0		
1 1-Dicbloroethane	An or a new sector would develop have upon the sector can be able of a	1148	120	1250		0	91.9	74 2-122		······································	**************************************	na anta a a anta
1,1-Dichloroethane		1068	120	1250		0	85.5	75 8-122		0		
1 1 Dichloropropene		1080	120	1250	· · · · · · · · · · ·	· <u>·</u>	87.1	80-120	•	<u> </u>	**** *** *****************************	
1,1-Dichioropropene		1266	120	1250		n	101	80-120		0		
1.2-Dichlorobenzene		1140	120	1250	•		91.9	80-120		<u> </u>	~ ~	
1.2-Dichloroethane		1275	120	1250		n N	102	78 8-120		n		
	and the second second time to be the second second to a	2416	500	2500	· · · · · · · · · · · · · · · · · · ·	0	96.6	68 9-129	······································	<u>0</u>		
Acrolonitrile		2148	250	2500		0 0	85.9	68 8-129		0 0		
Renzene	n aga at Maria anna an Anna ann an Anna ann an Anna an	1158	120	1250		. <u>.</u> .	92.6	80-120		0		
Bromodichlorometha	ne	1316	120	1250		0	105	80-120		0		
Bromomethane		1339	120	1250		0	107	52.8-147		0		
Carbon tetrachloride		1099	120	1250		0	87.9	76.8-120		0		
Chiorobenzene		1190	120	1250		0	95.2	80-120		0		·
Chloroform		1494	120	1250	282	2.8	96.9	80-120		0		
Chloromethane	anna <mark>ntan</mark>	1040	120	1250	<u></u>	0	83.2	63.5-133	and a set of the second se	0	ал 9 м. — с цинте станиц <u></u>	
cis-1,2-Dichloroethen	e	1181	120	1250		0	94.5	80-120		0		
cis-1,3-Dichloroprope	ne	1265	120	1250		0	101	80-120		0		
Dichlorodifluorometha	ane	881.3	120	1250		0	70.5	68.6-126		0		
Ethylbenzene	a a transmission of the second second second second second	1089	120	1250		0	87.1	80-120		0		
m,p-Xylene		2197	250	2500		0	87.9	80-120		0		
Methylene chloride		1220	250	1250		0	97.6	74.7-120		0		
o-Xylene		1152	120	1250		0	92.2	80-120		0		
Tetrachloroethene	n an an suithean an a	1065	120	1250	1927 - Sandar Alama,	0	85.2	80-120	hallan i tarvisans" - 1,72,7	0	a la negli yezh e k	*
Toluene		1138	120	1250		0	91	80-120		0		
trans-1,2-Dichloroethe	ene	1191	120	1250	· · · · · · · · · · · · · · · · · · ·	0	95.3	75.9-122		0		
trans-1,3-Dichloropro	pene	1309	120	1250		0	105	80-120	- 14 A 1981175 14 14 14 14	0		
Trichloroethene		1193	120	1250		0	95.4	80-120		0		
Trichlorofluoromethar	ne	969	120	1250		0	77.5	70.3-126		0		
Vinyl chloride		1008	50	1250		0	80.7	76.2-121		0		
Surr: 1,2-Dichloroe	thane-d4	1352	120	1250		0	108	70-125		0		···
Surr: 4-Bromofluor	obenzene	1342	120	1250		0	107	72.4-125		0		
Surr: Dibromofluor	omethane	1375	120	1250		0	110	71.2-125		0		
Surr: Toluene-d8		1332	120	1250		0	107	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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

B - Analyte detected in assoc. Method Blank U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

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Project:

BBC International Work Order: 0608511

Hess Texaco

OC BATCH REPORT

Instrument ID VOA1 Method: SW8260 Batch ID: R41162 Units: µg/L Analysis Date: 08/28/06 15:08 MSD Sample ID: 0608518-01AMSD Prep Date: DF: 25 Client ID: Run ID: VOA1 060830A SeqNo: 938121 RPD SPK Ref **RPD** Ref Control Value Limit Limit Value SPK Val %REC %RPD Qual Analyte Result PQL 1260 120 0 101 79.6-120 1129 10.9 1.1.1-Trichloroethane 1250 20 120 1250 0 100 78.9-121 1229 20 1,1,2,2-Tetrachloroethane 1256 2.2 1,1,2-Trichloroethane 1247 120 1250 0 99.7 80-120 1213 2.79 20 1180 120 1250 0 94.4 74.2-122 2.73 20 1,1-Dichloroethane 1148 1,1-Dichloroethene 1244 120 1250 0 99.5 75.8-122 1068 15.2 20 1,1-Dichloropropene 1250 120 1250 0 100 80-120 1089 13.8 20 0 1305 120 1250 104 80-120 1266 3.07 20 1,2-Dibromoethane 120 0 99.3 80-120 7.75 20 1,2-Dichlorobenzene 1241 1250 1149 104 120 0 1275 2.1 20 1,2-Dichloroethane 1302 1250 78.8-120 Acrolein 2521 500 2500 0 101 68.9-129 2416 4.26 20 2148 250 2500 0 97.1 68.8-129 20 Acrylonitrile 2427 122 Benzene 1169 120 1250 0 93.5 80-120 1158 1.02 20 Bromodichloromethane 1330 120 1250 0 106 80-120 1316 1.02 20 1313 1250 0 105 1.95 Bromomethane 120 52.8-147 1339 20 Carbon tetrachloride 1314 120 1250 0 105 76.8-120 1099 17.8 20 120 0 Chlorobenzene 1248 1250 99.9 80-120 1190 4.81 20 Chloroform 1529 120 1250 282.8 99.7 80-120 1494 2.31 20 Chloromethane 1062 120 1250 0 85 63.5-133 1040 2.14 20 cis-1,2-Dichloroethene 1185 120 1250 0 94.8 80-120 1181 0.31 20 0 cis-1,3-Dichloropropene 1286 120 1250 103 80-120 1265 1.64 20 Dichlorodifluoromethane 1199 120 1250 0 95.9 68 6-126 881.3 30.6 20 R Ethylbenzene 1224 120 1250 0 97.9 80-120 1089 11.7 20 m,p-Xylene 2456 250 2500 0 98.2 80-120 2197 11.1 20 0 Methylene chloride 1265 250 1250 101 74.7-120 1220 3.62 20 o-Xylene 1258 120 1250 0 101 80-120 1152 8.78 20 Tetrachloroethene 1267 120 1250 0 101 20 80-120 1065 17.3 Toluene 1202 120 1250 0 96.2 80-120 1138 5.49 20 trans-1,2-Dichloroethene 1261 120 1250 0 101 75.9-122 5.73 1191 20 trans-1,3-Dichloropropene 1313 120 1250 0 105 80-120 1309 0.291 20 Trichloroethene 1246 120 1250 0 99.6 80-120 1193 4.35 20 Trichlorofluoromethane 1322 120 1250 0 106 70.3-126 969 30.8 20 R Vinyl chloride 50 0 1133 1250 90.6 76.2-121 1008 11.6 20 Surr: 1,2-Dichloroethane-d4 1372 120 1250 0 110 70-125 1352 1.52 20 1350 0 Surr: 4-Bromofluorobenzene 120 1250 108 72.4-125 1342 0.583 20 0.78 Surr: Dibromofluoromethane 1364 120 1250 0 109 71.2-125 1375 20

The following samples were analyzed in this batch:

1311

120

0608511-01A 0608511-02A

0

105

75-125

1250

1332

ND - Not Detected at the Reporting Limit

Surr: Toluene-d8

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

S - Spike Recovery outside accepted recovery limits

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

1.57

QC Page: 17 of 32

20

Batch ID: R41214

BBC International 0608511 Work Order:

Project: Hess Texaco

QC BATCH REPORT

Instrument ID VOA1 Method: SW8260

MBLK Sample ID: VBLKW-0830					U	Inits: µg/L		Analysis D	ate: 08/30	/06 12:00
Client ID:	Run I	D: VOA1_	060830C		SeqNo: 939	256	Prep Date:		DF: 1	
				SPK Ref		Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value	%REC	Limit	Value	%RPD	Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0			anger af prode and a defense a set of a set of a				ale a far san san he he	
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,1-Dichloropropene	ND	5.0	an ann anns, staine t an s anns						· · · · fanner - wit - ·	
1,2-Dibromoethane	ND	5.0								
1,2-Dichlorobenzene	ND	5.0	a, ann an							
1,2-Dichloroethane	ND	5.0								
Acrolein	ND	20								
Acrylonitrile	ND	10								
Benzene	ND	5.0	anga, an season and anna anna				and the second second of the second se		ی ایک بید در ایس این ا	
Bromodichloromethane	ND	5.0								
Bromomethane	ND	5.0				ar to active a site of the tool		non with a correction of	n maanan sa na maran maran ka	
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0				an an the second second second second		· • • • • • • • • • • • • • • • • • • •	مترورية بالمعتر متعورة	
Chloroform	ND	5.0								
Chloromethane	ND	5.0			And a mark constant some same					
cis-1.2-Dichloroethene	ND	5.0								
cis-1.3-Dichloropropene	ND	5.0								-
Dichlorodifluoromethane	ND	5.0								
Ethylbenzene	ND	5.0		and the state of the		·		and the second of a constant of the same		
m.p-Xvlene	ND	10								
Methylene chloride	ND	10		and the second second second						
o-Xvlene	ND	5.0								
Tetrachloroethene	ND	5.0	ntergentationistis di Standard Standard	e 1920 (1887) - Jack Leither (1887) - Barther		a an	n yaka ing kabupatèn <u>an</u> ing kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabupatèn kabu	", T = 650 (gerturt)tallelit.	రాజు గారుణా ఉని మ	ander Mandel Martine San Andre
Toluene	ND	5.0								
trans-1.2-Dichloroethene	ND	5.0	· ···· · ····							an banka karan ang ang ang ang ang ang ang ang ang a
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0							· · · · · · · · · · · · · · · · · · ·	A gabe from M
Trichlorofluoromethane	ND	5.0								
Vinyl chloride	ND	2.0	and the second the function of the second second	a di mandan ann an sina ana			a a terapang paga a tera ang		· · · · · · · · · · · · · · · · · · ·	
Surr: 1.2-Dichloroethane-d4	53,39	5.0	50		0 107	70-125		0		
Surr: 4-Bromofluorobenzene	55.12	5.0	50	a. 19. 19. 1. an an an a sa	0 110	72.4-12!	5	0		
Surr: Dibromofluoromethane	53.13	5.0	50		0 106	71,2-12	5	0		
Surr: Toluene-d8	52.03	5.0	50		0 104	75-125	Anna fran Frank an ann ann an an an a	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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

B - Analyte detected in assoc. Method Blank

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected E - Value above quantitation range





Project:

BBC International

Work Order: 0608511 Hess Texaco

OC BATCH REPORT

Batch ID: R41214 Instrument ID VOA1 Method: SW8260 LCS Sample ID: VLCSW-0830 Units: µg/L Analysis Date: 08/30/06 12:29 Client ID: Run ID: VOA1_060830C SeqNo: 939257 Prep Date: DF: 1 RPD SPK Ref **RPD** Ref Control Value Limit Value Limit SPK Val %REC %RPD Qual Result PQL Analyte 49.57 5.0 50 0 79.6-120 0 1,1,1-Trichloroethane 99.1 1,1,2,2-Tetrachloroethane 47.47 5.0 50 0 94.9 78.9-121 0 48.06 50 0 1,1,2-Trichloroethane 5.0 0 96.1 80-120 1,1-Dichloroethane 45.16 5.0 50 0 90.3 74.2-122 0 48.03 5.0 50 0 96.1 0 1,1-Dichloroethene 75.8-122 0 0 94 1,1-Dichloropropene 47.02 5.0 50 80-120 1,2-Dibromoethane 50.1 5.0 50 0 100 80-120 0 47.61 5.0 50 0 95.2 80-120 0 1,2-Dichlorobenzene 50 0 1,2-Dichloroethane 51.33 5.0 103 78.8-120 0 20 0 0 Acrolein 96.16 100 96.2 68.9-129 Acrylonitrile 91.59 10 100 0 91.6 68.8-129 0 5.0 50 0 92.8 0 Benzene 46.42 80-120 Bromodichloromethane 51.88 5.0 50 0 104 80-120 0 0 Bromomethane 49.96 5.0 50 99.9 52.8-147 Q Carbon tetrachloride 50.65 5.0 50 0 101 0 76.8-120 Chlorobenzene 50 0 97.3 0 48.66 5.0 80-120 Chloroform 47.79 5.0 50 0 95.6 80-120 0 Chloromethane 41.59 5.0 50 0 83.2 63.5-133 0 cis-1.2-Dichloroethene 45.67 5.0 50 0 91.3 80-120 0 50 0 50.39 5.0 cis-1,3-Dichloropropene 0 101 80-120 Dichlorodifluoromethane 45.19 5.0 50 0 90.4 68.6-126 0 0 Ethylbenzene 46.87 5.0 50 0 93.7 80-120 m,p-Xylene 94 10 100 0 94 80-120 0 50.58 0 101 0 Methylene chloride 10 50 74.7-120 o-Xylene 47.4 5.0 50 0 94.8 80-120 0 Tetrachloroethene 0 0 48.11 5.0 50 96.2 80-120 92.4 Toluene 5.0 50 46.18 0 80-120 0 trans-1,2-Dichloroethene 47.17 5.0 50 0 94.3 75.9-122 0 trans-1,3-Dichloropropene 52.22 5.0 50 0 104 80-120 0 5.0 50 0 80-120 0 Trichloroethene 48.92 97.8 Trichlorofluoromethane 48.69 5.0 50 0 97.4 70.3-126 0 Vinyl chloride 50 0 0 46.6 2.0 93.2 76.2-121 Surr: 1,2-Dichloroethane-d4 52.05 5.0 50 0 104 0 70-125 Surr: 4-Bromofluorobenzene 56.36 5.0 50 0 72.4-125 0 113 Surr: Dibromofluoromethane 53.23 5.0 50 0 106 0 71.2-125

Surr: Toluene-d8

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

50

U - Analyzed for but not detected

0

O - Referenced analyte value is > 4 times amount spiked

51.38

5.0

P - Dual Column results percent difference > 40%

0

103

75-125

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

QC Page: 19 of 32

BBC International **CLIENT:**

0608511 Work Order:

QC BATCH REPORT

Project: Hess Texaco

Batch ID: R41214	Instrument ID V	OA1		Metho	d: SW8260					un s u ma i suma asaarin	ana ang ang ang ang ang ang ang ang ang
MS Sample ID:	0608511-04AMS					L	Inits: µg/L		Analysis D	Date: 08/30	0/06 15:53
Client ID: G Lact MW4		Rur	ID: VOA1_	060830C	Se	eqNo: 939	262	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1 1 1-Trichloroethane		51.81	5.0	50	0	104	79.6-120		0		
1.1.2.2-Tetrachloroethane	na bi na mana mwa kata mwa na maji ana ana	50.7	5.0	50	0	101	78.9-121		0		
112-Trichloroethane		49.28	5.0	50	0	98.6	80-120		0		
1.1-Dichloroethane		47.3	5.0	50	0	94.6	74.2-122		0	·····	i i i ini ini ini ini ini ini ini ini i
1.1-Dichloroethene		51.25	5.0	50	0	102	75.8-122		0		
1.1-Dichloropropene		49.37	5.0	50	0	98.7	80-120		0		
1.2-Dibromoethane		50.76	5.0	50	0	102	80-120		0		
1 2-Dichlorobenzene		48.53	5.0	50	0	97.1	80-120		0		
1.2-Dichloroethane		53.2	5.0	50	0	106	78 8-120		0		
Acrolein		102.1	20	100	0	102	68 9-129		0		
Acrylonitrile		55.3	10	100	0	55.3	68 8-129		0		S
Benzene		46.31	5.0	50	0.4801	91.7	80-120	10 - 1 - 100	0		
Bromodichloromethane		52.48	5.0	50	0	105	80-120		0		
Bromomethane		48.77	5.0	50	0	97.5	52.8-147	e werene and a second of the second	0		
Carbon tetrachloride		53.38	5.0	50	0	107	76.8-120		0		
Chlorobenzene		48.69	5.0	50	0	97.4	80-120		0		
Chloroform		49.63	5.0	50	0	99.3	80-120		0		
Chloromethane		41.04	5.0	50		82.1	63.5-133		0		a rahifa i tanan melan wa
cis-1,2-Dichloroethene		48.1	5.0	50	0	96.2	80-120		0		
cis-1,3-Dichloropropene		51.03	5.0	50	0	102	80-120		0		
Dichlorodifluoromethane		47.26	5.0	50	0	94.5	68.6-126		0		
Ethylbenzene		47.61	5.0	50	0	95.2	80-120		0		
m,p-Xylene		94.16	10	100	0	94.2	80-120		0		
Methylene chloride		49.58	10	50	0	99.2	74.7-120		0		
o-Xylene		48.49	5.0	50	0	97	80-120		0		
Tetrachloroethene	an in the single second to the testing	48.88	5.0	50	0	97.8	80-120	n no monomi semilatiyi Maren na	а алтарана склата и ак О	* (40%) a 140%) a 1408 	um an an air ait ait an an an a' air an
Toluene		46.31	5.0	50	0	92.6	80-120		0		
trans-1,2-Dichloroethene	• • • • • • • • • • • • • • • • • • •	41.01	5.0	50	0	82	75.9-122	and a contract of and an any process	0	to the one of the test state	
trans-1,3-Dichloropropene		51.87	5.0	50	0	104	80-120		0		
Trichloroethene	and the second sec	49.24	5.0	50	0	98.5	80-120		0		
Trichlorofluoromethane		53.17	5.0	50	0	106	70.3-126		0		
Vinyl chloride	THE R OF THE CONTROL OF THE REPORT	45.41	2.0	50	0	90.8	76.2-121	وي و در المحمد المحمد المحمد الم	0		******
Surr: 1,2-Dichloroethan	e-d4	56.25	5.0	50	0	113	70-125		0		
Surr: 4-Bromofluoroben	zene	51.56	5.0	50	0	103	72.4-125		0	ne en la servició de la com	
Surr: Dibromofluoromet	hane	56.42	5.0	50	0	113	71.2-125		0		
Surr: Toluene-d8		51.45	5.0	50	0	103	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

QC Page: 20 of 32



CLIENT: BBC International

0608511 Work Order: **Project:**

QC BATCH REPORT

Hess Texaco

Batch ID: R41214	Instrument ID VOA1		Metho	d: SW8260			an an an a second second		ta bhaife i bha bha agus ag ti bha	
MSD Sample ID: 06	08511-04AMSD				U	Inits: µg/L	ρ	nalysis Da	ate: 08/30 /	/06 16:22
Client ID: G Lact MW4	Run	ID: VOA1_	060830C	Se	eqNo: 939	263	Prep Date:		DF: 1	
Analyte	Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	······································					70.0.400		47.0		
1,1,1-Trichloroethane	43.61	5.0	50	0	87.2	79.6-120	51.81	17.2	20	· · · · · · · · · · · · · · · · · · ·
1,1,2,2-l etrachioroethane	49.87	5.0	50	0	99.7	/8.9-121	50.7	1.00	20	
1,1,2-Trichloroethane	47.67	5.0	50		95.3	80-120	49.28	3.33	20	
1,1-Dichloroethane	44.75	5.0	50	U	89.5	74.2-122	47.3	5.54	20	
1,1-Dichloroethene	43.25	5.0	50	0	86.5	75.8-122	51.25	16.9	20	Photo San San San San ang pang s
1,1-Dichloropropene	42.12	5.0	50	0	84.2	80-120	49.37	15.9	20	
1,2-Dibromoethane	51.22	5.0	50	0	102	80-120	50.76	0.907	20	
1,2-Dichlorobenzene	45.31	5.0	50	0	90.6	80-120	48.53	6.86	20	
1,2-Dichloroethane	51.94	5.0	50	0	104	78.8-120	53.2	2.4	20	to be therease share much be
Acrolein	100	20	100	0	100	68.9-129	102.1	2.05	20	
Acrylonitrile	73.78	10	100	0	73.8	68.8-129	55.3	28.6	20	R
Benzene	44.63	5.0	50	0.4801	88.3	80-120	46.31	3.7	20	
Bromodichloromethane	52.17	5.0	50	0	104	80-120	52.48	0.589	20	
Bromomethane	52.26	5.0	50	0	105	52.8-147	48.77	6.91	20	
Carbon tetrachloride	42.13	5.0	50	0	84.3	76.8-120	53.38	23.6	20	R
Chlorobenzene	46.13	5.0	50	0	92.3	80-120	48.69	5.4	20	
Chloroform	48.58	5.0	50	0	97.2	80-120	49.63	2.13	20	
Chloromethane	39.28	5.0	50	0	78.6	63.5-133	41.04	4.4	20	
cis-1,2-Dichloroethene	47.23	5.0	50	0	94.5	80-120	48.1	1.82	20	
cis-1,3-Dichloropropene	51.2	5.0	50	0	102	80-120	51.03	0.326	20	
Dichlorodifluoromethane	35.89	5.0	50	0	71.8	68.6-126	47,26	27.3	20	R
Ethylbenzene	44.19	5.0	50	0	88.4	80-120	47.61	7.45	20	
m,p-Xylene	86.84	10	100	0	86.8	80-120	94.16	8.08	20	
Methylene chloride	48.88	10	50	0	97.8	74.7-120	49.58	1.43	20	
o-Xylene	45.62	5.0	50	0	91.2	80-120	48.49	6.1	20	
Tetrachloroethene	42.4	5.0	50	0	84.8	80-120	48.88	14.2	20	e de Antonio de Taxante anti- e 1
Toluene	43.87	5.0	50	0	87.7	80-120	46.31	5.41	20	
trans-1,2-Dichloroethene	44.84	5.0	50	0	89.7	75.9-122	41.01	8.91	20	
trans-1,3-Dichloropropene	52.08	5.0	50	0	104	80-120	51.87	0.4	20	
Trichloroethene	46,41	5.0	50	0	92.8	80-120	49.24	5.91	20	
Trichlorofluoromethane	40.88	5.0	50	0	81.8	70.3-126	53.17	26.1	20	R
Vinyl chloride	39.38	2.0	50	0	78.8	76.2-121	45.41	14.2	20	
Surr: 1,2-Dichloroethane-	d4 56.65	5.0	50	0	113	70-125	56.25	0.701	20	
Surr: 4-Bromofluorobenze	ne 51.77	5.0	50	0	104	72.4-125	51.56	0.407	20	ang maan ka mini ka ni ka
Surr: Dibromofluorometha	ne 55,53	5.0	50	0	111	71.2-125	56.42	1.6	20	
Surr: Toluene-d8	52.35	5.0	50	0	105	75-125	51.45	1.74	20	
The following samples we	re analyzed in this batch	· 10	308511-03A	0608	511-04A	060	8511-05A			

0608511-06A 0608511-07A

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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40% E - Value above quantitation range

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BBC International ler: 0608511

Project: Hess Texaco

QC BATCH REPORT

Batch ID: R	41073	Instrument ID WetC	hem		Method	: E150.1		n fe 1965 e for to sta datorato anos			No. 100 10000000 0.00 0.00 0.00 0.00		
LCS	Sample ID:	WCSW1-082606						Ur	nits: pH u	nits	Analysis D	ate: 08/26	/06 0:00
Client ID:			Run ID:	WETCH	IEM_06082	6A	See	qNo: 9356	673	Prep Date:		DF: 1	
Analyte		Res	sult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
рН		6	.02	0.10	6		0	100	90-110		0		
DUP	Sample ID:	0608511-01CDUP						Uı	nits: pH u	nits	Analysis D	ate: 08/26	/06 0:00
Client ID: C	G Lact MW1		Run ID:	WETCH	1EM_06082	5A	Se	qNo: 9356	580	Prep Date:		DF: 1	
Analyte		Re	sult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
рН		6	.67	0.10	0		0	0	0-0	6.	65 0.3	3 20	н

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 22 of 32

CLIENT:	BBC International
Work Order:	0608511

QC BATCH REPORT

Work Order:	0608511
Project:	Hess Texaco

Batch ID: R	41121 Insl	trument ID UV-2450		Method	i: E335.3						1970-17 17 av met mer	An 174-1686 - Second - Second Mark May 10-184
MBLK	Sample ID: WBL	KW1-082806					U	nits: mg/l	L	Analysis D	ate: 08/28	/06 16:30
Client (D:		Run ID	: UV-245	0_060828A		SeqNo: 936928		928	Prep Date:	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020									
LCS	Sample ID: WLC	SW1-082806					U	nits: mg/ l		Analysis D	ate: 08/28	3/06 16:30
Client ID:		Run ID	: UV-245	0_060828A		Seq	No: 936	929	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.193	0.020	0.2		0	96 .5	80-120		0		
MS	Sample ID: 0608	492-03AMS					U	nits: mg/l		Analysis D	ate: 08/28	8/06 16:30
Client ID:		Run ID	UV-245	0_060828A		Seq	No: 936	945	Prep Date:		DF: 1	
Analyte	a to the state of	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.182	0.020	0.2	-0.0	03	92.5	80-120		0		
DUP	Sample ID: 0608	492-03ADUP				 	Ū	nits: mg/	 L	Analysis D	ate: 08/28	3/06 16:30
Client ID:		Run ID	: UV-245	0_060828A		Seq	No: 936	944	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020	0		0	0	0-0	-0.0	03 0	20	
The follow	ing samples were a	nalyzed in this batch:	06	508511-01B 508511-04B	06	0851	1-02B	06	08511-03B			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40% E -

B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected

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in the second

E - Value above quantitation range

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QC BATCH REPORT

Work Order:0608511Project:Hess Texaco

Batch ID: F	R41132 Instrument I	D Balance1		Method	d: E160.1								
MBLK	Sample ID: WBLKW1			· · · · · · ·			Ur	nits: mg/l	_	Analysis Date: 08/29/06 0:00			
Client ID:		Run ID: BALANCE1_060829A			SeqNo: 937397			Prep Date:	rep Date:		DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Disso	olved Solids (Residue, Fil	ND	10	a v				•			······		
LCS	Sample ID: WLCSW1					Units: mg/L				Analysis Date: 08/29/06 0:00			
Client ID:		Run ID: BALANCE1_060829A			SeqNo: 937398			Prep Date:	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Disso	olved Solids (Residue, Fil	924	10	1000		0	92.4	85-115		0	·	where the state line of a summarian	
DUP	Sample ID: 0608511-01C	DUP			• • • • • • • • • • • • • • • • • • •		Units: mg/L				Analysis Date: 08/29/06 0:00		
Client ID: G Lact MW1 Ru			ID: BALANCE1_060829A				SeqNo: 937377 Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Total Disso	olved Solids (Residue, Fil	764	10	0	-	0	0	0-0	7	40 3.19	20		
The following samples were analyzed in this batch:		06 06	0608511-01C 0608511-04C		0608511-02C 0608511-05C		0608511-03C 0608511-06C						

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank
 U - Analyzed for but not detected

P - Dual Column results percent difference > 40% E - Value above quan

E - Value above quantitation range

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CLIENT: Work Or Project:	: der:	BBC International 0608511 Hess Texaco								QC	C BATC	CH RE	PORT	
Batch ID: F	\$41289	Instrument ID U	V-2450		Method	i: E354.1				1999 - 19 - 1996 - 1997	Service of the Landson of the			
MBLK	Samp	ole ID: WBLKW1-08260					U	nits: mg/ l		Analysis D	ate: 08/26	/06 0:00		
Client ID:			Run I	D: UV-245	0_060826A		Seq	No: 940	768	Prep Date:		DF: 1		
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nitrogen, N	litrite		ND	0.010										
LCS Sample ID: WLCSW1-082606					Units: mg/L						Analysis Date: 08/26/06 0:00			
Client ID:			Run I	ID: UV-245	0_060826A		Seq	No: 940	769	Prep Date:		DF: 1		
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nitrogen, N	litrite		0.101	0.010	0.1		0	101	80-120		0			
MS	Samp	ole ID: 0608511-06CMS						U	nits: mg/l		Analysis D	ate: 08/26	/06 0:00	
Client ID:	Duplicate)	Run I	D: UV-245	0_060826A		Seq	No: 940	782	Prep Date:		DF: 1		
Analyte		1915 1917 - 	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nitrogen, N	litrite		0.099	0.010	0.1	0.0	01	98	75-125		0			
DUP	Sam	ble ID: 0608511-06CDU	P					U	nits: mg/ l	L_	Analysis D	ate: 08/26	/06 0:00	
Client ID:	Duplicate	3	Run I	D: UV-245	0_060826A		Seq	(No: 940)	781	Prep Date:		DF: 1		
Analyte			Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Nitrogen, N	litrite		ND	0.010	0		0	0	0-0	0.0	D1 () 20		
The follow	ring sam	ples were analyzed in t	this batch:	06 06	08511-01C 08511-04C	06	6085 6085	11-02C 11-05C	06 06	08511-03C 08511-06C				

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

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

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

- U Analyzed for but not detected
- E Value above quantitation range

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BBC International **CLIENT:**

Work Order: 0608511

QC BATCH REPORT

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Project:	Hess	Гехасо												
Batch ID: R	41321	Instrument ID UV-	2450		Method	d: E335.3				1991 ANT 16 WAS 1000 MILLION AT 16 AT 1993			Arrent rearrance in the	
MBLK	ABLK Sample ID: WBLKW1-090106		الكفاد المريكان البال				U	nits: mg/l	_	Analysis Date: 09/03/06 0:00				
Client ID:			Run ID	UV-245	0_060903B		Se	qNo: 941 4	166	Prep Date:		DF: 1		
Analyte		R	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide	nan annan anna 1016 annan 116 annan 116 annan 116 ann ann	 An offender of States 1, 1997, 1998. Where you address and any other of 	ND	0.020		W1 1000 AL 170 TO 100 AL 100				1. (1. m.). (1. m.).	a star Ale an a sugar and a sugar			
LCS	Sample ID: WLCSW1-090106						Units: mg/L				Analysis Date: 09/03/06 0:00			
Client ID:			Run ID	: UV-245	0_060903B		Se	qNo: 941 4	467	Prep Date:		DF: 1		
Analyte		R	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide		().211	0.020	0.2		0	106	80-120		0	n mart an ange 10 Mar at 1 M		
MS	Sample ID: 0608605-01BMS							υ	nits: mg/l	_	Analysis Date: 09/03/06 0:00			
Client ID:			Run ID	: UV-245	ю_060903В		Se	qNo: 9414	480	Prep Date:		DF: 1		
Analyte		R	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide	and the second secon	()).204	0.020	0.2	-0.0	02	103	80-120		0			
MSD	Sample ID: 0	608605-01BMSD						U	nits: mg/l		Analysis D	ate: 09/03	/06 0:00	
Client ID:			Run ID	: UV-245	0_060903B		Se	qNo: 941 4	481	Prep Date:		DF: 1		
Analyte	99 YA 1999 AN 1999 A	R	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide		···· · ···· · · · · · · · · · · · · ·).209	0.020	0.2	-0.0	02	106	80-120	0.20)4 2.42	20	- hard of a second state of	
DUP	Sample ID: 0	608605-01BDUP				Units: mg/l				Analysis Date: 09/		/06 0:00		
Client ID:			Run ID	: UV-245	0_060903B		Se	qNo: 941	479	Prep Date:		DF: 1		
Analyte		R	esult	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Cyanide			ND	0.020	0		0	0	0-0	-0.00)2 C	20	and a second second second second	
The followi	ng samples we	re analyzed in thi	s batch:	06	608511-05B	06	5085	11-06B		and a second				

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank U - Analyzed for but not detected

E - Value above quantitation range

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P - Dual Column results percent difference > 40%


CLIENT: BBC International

QC BATCH REPORT

Work Order: 0608511 Project: Hess Texaco

Batch ID: R	41322	Instrument ID IC201		Metho	d: E300	 x						
MBLK	Sample ID: 1	WBLKW1-090206					U	nits: mg/L		Analysis Da	ate: 09/02	/06 16:21
Client ID:		Run	ID: IC201_0	060902A		Sec	No: 941	486	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		ND	0.50						A MORE AND A MARKED AND A			anta ang alla in an
Fluoride		ND	0.10									
Sulfate		ND	1.0						······································	**************************************		
Surr: Sel	enate (surr)	5.057	0.10	5		0	101	85-115		0		
LCS	Sample ID:	WLCSW1-060-83-					U	nits: mg/L	-	Analysis Da	ate: 09/02	/06 16:42
Client ID:		Run	ID: IC201_	060902A		Sec	No: 9414	487	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	and an an and the training the second se	20.24	0.50	20		0	101	90-110	n	0		
Fluoride		4.257	0.10	-*		0	106	90-110		0		
Sulfate		20.26	1.0	20		0	101	90-110		0	1997 - A. Marina I. Jan	
Surr: Sel	lenate (surr)	5.051	0.10	5	-	0	101	85-115		0	angang gar beer and a star of a sign	· • • • • • • • • • • • • • •
LCSD	Sample ID: 1	WLCSDW1-060-83	· · · · · · · · · · · · · · · · · · ·				U	nits: mg/ l		Analysis Da	ate: 09/02	/06 17:04
Client ID:		Run	ID: IC201_	060902A		Sec	No: 9414	488	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		20.26	0.50	20		0	101	90-110	20.2	4 0.123	20	
Fluoride		4.265	0.10	4		0	107	90-110	4.25	7 0.188	20	
Sulfate		20.28	1.0	20		0	101	90-110	20.2	6 0.123	20	
Surr: Sel	lenate (surr)	5.058	0.10	5		0	101	85-115	5.05	1 <i>0.138</i>	20	
MS	Sample ID:	0609004-01BMS					U	nits: mg/L	-	Analysis Da	ite: 09/02	/06 18:10
Client ID:		Run	ID: IC201_	060902A		Sec	No: 941	491	Prep Date:		DF: 1	
Analyte	t to all and some to prove them a to prove the	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Límit	Qual
Chloride		34.41	0.50	10	25.0	05	93.6	80-120		0		
Fluoride		3.317	0.10	2	1.18	31	107	80-120		0		
Sulfate		137.5	1.0	10	130	.8	67.8	80-120		0		SEO
Surr: Sel	lenate (surr)	4.889	0.10	5		0	97.8	80-120		0		

ND - Not Detected at the Reporting Limit J - Analyte detected below quantitation limits S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 27 of 32

CLIENT: BBC International

QC BATCH REPORT

Batch ID: F	R41322	Instrument ID IC201		Metho	d: E300		1979 	n Martin and a state of the second state of th	······································	ha	
MSD	Sample ID:	0609004-01BMSD				U	nits: mg/l	Α	nalysis Da	ite: 09/02	/06 18:32
Client ID:		Run IC): IC201_	060902A	Se	qNo: 941	492	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		34.57	0.50	10	25.05	95.2	80-120	34.41	0.452	20	
Fluoride		3.356	0.10	2	1.181	109	80-120	3.317	1.17	20	
Sulfate		138.3	1.0	10	130.8	75.4	80-120	137.5	0.552	20	SEO
Surr: Se	lenate (surr)	4.905	0.10	5	0	98.1	80-120	4.889	0.327	20	Inter address international and an
DUP	Sample ID	0609004-01BDUP				U	nits: mg/l	A	nalysis Da	ite: 09/02	06 17:48
Client ID:		Run IC	D: IC201_	060902A	Se	qNo: 941	490	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		25.01	0.50	0	0	0	0-0	25.05	0.148	20	
Fluoride	no di Lokor oltre gi troggerripadi.	••••••••••••••••••••••••••••••••••••••	0.10	0	0	0	0-0	1.181	0	20	the second s
Sulfate		130.6	1.0	0	0	0	0-0	130.8	0.101	20	Е
Surr: Se	lenate (surr)	4.819	0.10	5	0	96.4	80-120	4.821	0.0415	20	
DUP	Sample ID	: 0609004-01BDUP				U	nits: mg/l	A	nalysis Da	ite: 09/02	/06 20:00
Client ID:		Run IC	D: IC201_	060902A	Se	qNo: 941	496	Prep Date:		DF: 5	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		25.86	2.5	0	0	0	0-0	25.97	0.417	20	
Fluoride	· · · · · · · · · · · · · · · · · · ·	1.21	0.50	0	0	0	0-0	1.262	4.21	20	
Sulfate		134	5.0	0	0	0	0-0	138.6	3.39	20	
Surr: Se	lenate (surr)	25	0.50	25	0	100	80-120	24.96	0.176	20	
The follow	ving samples	were analyzed in this batch:	06	508511-01C 508511-04C	0608 0608	511-02C 511-05C	06	08511-03C			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked P - Dual Column results percent difference > 40% U - Analyzed for but not detected E - Value above quantitation range

QC Page: 28 of 32



CLIENT: BBC International

Work Order:0608511Project:Hess Texaco

QC BATCH REPORT

Hes	s Texaco										
1405	Instrument ID IC201	unterter to be second to a construction where the	Metho	d: E300							
Sample ID:	WBLKW1-090506					υ	nits: mg/l	-	Analysis Da	ate: 09/06	/06 2:39
		Run ID: 1C201_	060905C		Sec	qNo: 943	688	Prep Date:		DF: 1	
	Resu	ut PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	N	D 0.50	nin W. Kong gabier of his barry			Contra of the Contra of the	and a first of the second second	The second s			
a analogues a constraint son de par son a	N	D 0.10									
	N	D 1.0									
nate (surr)	5.28	32 0.10	5		0	106	85-115)		······
Sample ID:	WLCSW1-090506/					υ	nits: mg/l		Analysis Da	ate: 09/06	/06 3:00
		Run ID: IC201_	060905C		Se	qNo: 943	691	Prep Date:	·	DF: 1	
	Resi	ult POL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Quai
анараланын алан дар талараа алан		0.000		1977 - Frank I. S. Salahar ata I. Salah							
		.3 0.50	20 	and the second strength of the second se	0	106	90-110	an a) Nagalalatang Lantuwos	an ten tanan w	This Carton
	4.32	27 0.10	4		0	100	90-110				
nate (surr)	5.28	B1 0.10	<u>- 20</u> 5	an to an the second	0	106	85-115		0	- The Mar Carrier Lagree (17) in Ma	
Sample ID:	WLCSDW1-09050	······································				U	nits: ma/l		Analysis Da	ate: 09/06	/06 3:22
		Run ID: IC201_	_060905C		Se	qNo: 943	692	Prep Date:	,, ,	DF: 1	
	Resi	ult PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	21	.3 0.50	20		0	106	90-110	21.	3 0.00939	20	
territ k anderen er samme er samme er fanne	4.32	24 0.10	4		0	108	90-110	4.32	7 0.0694	20	
	21.2	25 1.0	20		0	106	90-110	21.2	7 0.103	20	
enate (surr)	5.2	28 0.10	5		0	106	85-115	5.28	1 0.0189	20	
Sample ID:	0608523-01BMS			-		υ	nits: mg/l		Analysis Da	ate: 09/06	/06 5:12
		Run ID: IC201_	060905C		Se	qNo: 943	697	Prep Date:		DF: 1	
	Resu	ult PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
	733	9 0.50	10	725	R 1		80-120		n	n sanansa ang	SEO
	2 52	29 0.10	2	0.1	62	118	80-120		0	-	
	62.4	42 1.0	10	51.	91	105	80-120	1	-		EO
	Hess 1405 Sample ID: nate (surr) Sample ID: nate (surr) Sample ID: Sample ID: Sample ID:	Hess Texaco 1405 Instrument ID IC201 Sample ID: WBLKW1-090506 Ress N N N nate (surr) 5.26 Sample ID: WLCSW1-090506/ Ress 21 4.32 21.2 inate (surr) 5.26 Sample ID: WLCSDW1-090506/ Ress 21.2 4.32 21.2 4.32 21.2 4.32 21.2 Sample ID: WLCSDW1-09050 Ress 21 4.32 21.2 Sample ID: WLCSDW1-09050 Ress 21 4.32 21.2 5.25 21.2 5.26 21.2 4.32 21.2 4.33 21.2 5.26 21.2 4.33 21.2 5.27 5.27 Sample ID: 0608523-01BMS Ress 733 2.57 62.4	Hess Texaco 1405 Instrument ID IC201 Sample ID: WBLKW1-090506 Run ID: IC201_ Result PQL ND 0.50 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 Sample ID: WLCSW1-090506/ Run ID: IC201_ Result PQL 21.3 0.50 4.327 0.10 21.27 1.0 Inate (surr) 5.281 0.10 Sample ID: WLCSDW1-09050 Run ID: IC201_ Result PQL 21.3 0.50 4.324 0.10 21.25 1.0 Inate (surr) 5.28 0.10 21.25 1.0 Sample ID: 0608523-01BMS Run ID: IC201_ Result PQL 733.9 0.50 2.529 0.10 62.42 1.0 <td>Hess Texaco 1405 Instrument ID IC201 Method Sample ID: WBLKW1-090506 Run ID: IC201_060905C Result PQL SPK Val ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 Sample ID: WLCSW1-090506/ Run ID: IC201_060905C Result PQL SPK Val 21.3 0.50 20 4.327 0.10 4 21.27 1.0 20 mate (surr) 5.281 0.10 5 5 Sample ID: WLCSDW1-09050 Run ID: IC201_060905C Result PQL SPK Val 21.3 0.50 20 4.324 0.10 4 21.25 1.0 20 mate (surr) 5.28 0.10 4 21.25 1.0 20 mate (surr) 5.28 0.10 5 Sample ID: 0608523-01BMS 5</td> <td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Run ID: IC201_060905C SPK Ref Result PQL SPK Val Value Value ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 Sample ID: WLCSW1-090506/ Run ID: IC201_060905C Sample ID: WLCSW1-090506/ SPK Ref Value 21.3 0.50 20 4.327 0.10 4 21.27 1.0 20 </td> <td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 SPK Ref Result PQL SPK Val SPK Ref ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 0 Sample ID: WLCSW1-090506/ Run ID: 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ND 1.0 nate (surr) 5.282 0.10 5 0 106 85-115 Sample ID: WLCSW1-090506/ Units: mg/L SPK Ref Control Result PQL SPK Val SPK Ref Control 1.0 nate (surr) 5.282 0.10 5 0 106 90-110 4.327 0.10 4 0 108 90-110 21.27 1.0 20 0 106 85-115 Sample ID: WLCSDW1-09050 Units: mg/L 90-110 105 0 106 85-115 Sample ID: WLCSDW1-09050 Units: mg/L 21.3 <th< td=""><td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Run ID: IC201_060905C SeqNo: 943688 Prep Date: ND 0.50 SPK Ref Control RPD Ref ND 0.10 ND 1.0 Imits: mg/L nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units:<mg l<="" td=""> Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: Sample ID: WLCSW1-090506/ Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: 21.3 0.50 20 0 106 90-110 10 4.327 0.10 4 0 108 90-110 10 ate (surr) 5.281 0.10 5 0 106 95-175 10 Sample ID: WLCSDW1-09050 Units:<mg l<="" td=""> 10 10 10 10 10</mg></mg></mg></mg></td><td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Dr. Run ID: IC201_060905C SeqNo: 943668 Prep Date: %RPD ND 0.50 SPK Ref Control RPD Ref %RPD ND 0.10 ND 0.10 ND 0.10 ND nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units: mg/L Analysis Dr. ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND ND 0.10 ND <</td><td>Hess Texaco 1405 Instrument ID IC201 Method: E 300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Date: 0906 Run ID: IC201_050905C SeqNo: 943688 Prep Date: DF: 1 Result PQL SPK Val Value %REC Control RPD Ref QRPD Imit ND 0.50 ND 1.0 </td></th<></td>	Hess Texaco 1405 Instrument ID IC201 Method Sample ID: WBLKW1-090506 Run ID: IC201_060905C Result PQL SPK Val ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 Sample ID: WLCSW1-090506/ Run ID: IC201_060905C Result PQL SPK Val 21.3 0.50 20 4.327 0.10 4 21.27 1.0 20 mate (surr) 5.281 0.10 5 5 Sample ID: WLCSDW1-09050 Run ID: IC201_060905C Result PQL SPK Val 21.3 0.50 20 4.324 0.10 4 21.25 1.0 20 mate (surr) 5.28 0.10 4 21.25 1.0 20 mate (surr) 5.28 0.10 5 Sample ID: 0608523-01BMS 5	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Run ID: IC201_060905C SPK Ref Result PQL SPK Val Value Value ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 Sample ID: WLCSW1-090506/ Run ID: IC201_060905C Sample ID: WLCSW1-090506/ SPK Ref Value 21.3 0.50 20 4.327 0.10 4 21.27 1.0 20	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 SPK Ref Result PQL SPK Val SPK Ref ND 0.50 ND 0.10 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 0 Sample ID: WLCSW1-090506/ Run ID: IC201_060905C Se Sample ID: WLCSW1-090506/ SPK Ref Value 21.3 0.50 20 0 4.327 0.10 4 0 21.27 1.0 20 0 inate (surr) 5.281 0.10 5 0 0 Sample ID: WLCSDW1-09050 Run ID: IC201_060905C Se Result PQL SPK Kef Value 21.3 0.50 0 0 Sample ID: WLCSDW1-09050 Run ID: IC201_060905C Se SPK Ref Value 21.3 0.50 20	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 U Run ID: IC201_060905C SeqNo: 943i SPK Ref Value %REC ND 0.50 SPK Ref Value %REC ND 0.10 ND 1.0 mate (surr) 5.282 0.10 5 0 106 Sample ID: WLCSW1-090506/ U SPK Ref Value %REC Result PQL SPK Val SPK Ref Value %REC 21.3 0.50 20 0 106 108 21.27 1.0 20 0 106 inate (surr) 5.281 0.10 5 0 106 106 Sample ID: WLCSDW1-09050 U Run ID: IC201_060905C SeqNo: 943 Sample ID: WLCSDW1-09050 U Run ID: IC201_060905C SeqNo: 943 Sample ID: WLCSDW1-09050 U	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Run ID: IC201_060905C SeqNo: 943688 SPK Ref Control SPK Ref Control ND 0.50 ND 0.10 ND 1.0 nate (surr) 5.282 0.10 5 0 106 85-115 Sample ID: WLCSW1-090506/ Units: mg/L SPK Ref Control Result PQL SPK Val SPK Ref Control 1.0 nate (surr) 5.282 0.10 5 0 106 90-110 4.327 0.10 4 0 108 90-110 21.27 1.0 20 0 106 85-115 Sample ID: WLCSDW1-09050 Units: mg/L 90-110 105 0 106 85-115 Sample ID: WLCSDW1-09050 Units: mg/L 21.3 <th< td=""><td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Run ID: IC201_060905C SeqNo: 943688 Prep Date: ND 0.50 SPK Ref Control RPD Ref ND 0.10 ND 1.0 Imits: mg/L nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units:<mg l<="" td=""> Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: Sample ID: WLCSW1-090506/ Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: 21.3 0.50 20 0 106 90-110 10 4.327 0.10 4 0 108 90-110 10 ate (surr) 5.281 0.10 5 0 106 95-175 10 Sample ID: WLCSDW1-09050 Units:<mg l<="" td=""> 10 10 10 10 10</mg></mg></mg></mg></td><td>Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Dr. Run ID: IC201_060905C SeqNo: 943668 Prep Date: %RPD ND 0.50 SPK Ref Control RPD Ref %RPD ND 0.10 ND 0.10 ND 0.10 ND nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units: mg/L Analysis Dr. ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND ND 0.10 ND <</td><td>Hess Texaco 1405 Instrument ID IC201 Method: E 300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Date: 0906 Run ID: IC201_050905C SeqNo: 943688 Prep Date: DF: 1 Result PQL SPK Val Value %REC Control RPD Ref QRPD Imit ND 0.50 ND 1.0 </td></th<>	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Run ID: IC201_060905C SeqNo: 943688 Prep Date: ND 0.50 SPK Ref Control RPD Ref ND 0.10 ND 1.0 Imits: mg/L nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units: <mg l<="" td=""> Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: Sample ID: WLCSW1-090506/ Units:<mg l<="" td=""> SeqNo: 943691 Prep Date: 21.3 0.50 20 0 106 90-110 10 4.327 0.10 4 0 108 90-110 10 ate (surr) 5.281 0.10 5 0 106 95-175 10 Sample ID: WLCSDW1-09050 Units:<mg l<="" td=""> 10 10 10 10 10</mg></mg></mg></mg>	Hess Texaco 1405 Instrument ID IC201 Method: E300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Dr. Run ID: IC201_060905C SeqNo: 943668 Prep Date: %RPD ND 0.50 SPK Ref Control RPD Ref %RPD ND 0.10 ND 0.10 ND 0.10 ND nate (surr) 5.282 0.10 5 0 106 85-115 0 Sample ID: WLCSW1-090506/ Units: mg/L Analysis Dr. ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND 0.10 ND ND 0.10 ND <	Hess Texaco 1405 Instrument ID IC201 Method: E 300 Sample ID: WBLKW1-090506 Units: mg/L Analysis Date: 0906 Run ID: IC201_050905C SeqNo: 943688 Prep Date: DF: 1 Result PQL SPK Val Value %REC Control RPD Ref QRPD Imit ND 0.50 ND 1.0

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

Surr: Selenate (surr)

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

s U - Analyzed for but not detected

0

O - Referenced analyte value is > 4 times amount spiked

5.051

0.10

5

P - Dual Column results percent difference > 40%

0

101

80-120

E - Value above quantitation range

B - Analyte detected in assoc. Method Blank

QC Page: 29 of 32



QC BATCH REPORT

Hess Texaco **Project:** Instrument ID IC201 Method: E300 Batch ID: R41405 Sample ID: 0608523-01BMSD MSD Units: mg/L Analysis Date: 09/06/06 5:34 Run ID: IC201 060905C SeaNo: 943698 Prep Date: DF; 1 Client ID: **RPD** Ref RPD SPK Ref Control Value Value Limit Limit Result PQL SPK Val %REC %RPD Qual Analyte 733 0.50 10 738.1 -50.9 80-120 733.9 0.112 SEO Chloride 20 2.547 0.10 2 0.162 119 80-120 2.529 0.709 20 Fluoride 1.0 51.91 62.52 10 106 80-120 62.42 0.149 ΕO Sulfate 20 Surr: Selenate (surr) 5.055 0.10 5 0 101 80-120 5.051 0.0792 20 DUP Sample ID: 0608523-01BDUP Analysis Date: 09/06/06 10:41 Units: mg/L Client ID: Run ID: IC201_060905C SeqNo: 943672 Prep Date: DF: 10 RPD SPK Ref RPD Ref Control Value Limit Value Limit PQL SPK Val %REC %RPD Analyte Result Qual Chloride 723.3 5.0 0 0 0 0-0 720.7 0.359 20 ε ND Fluoride 1.0 0 0 0 0-0 0.159 20 0 Sulfate 50.09 10 0 0 0 0-0 50.53 20 0.867 50.46 1.0 50 0 101 80-120 50.56 Surr: Selenate (surr) 0.182 20 DUP Sample ID: 0608523-01BDUP Units: mg/L Analysis Date: 09/06/06 4:50 Client ID: Run ID: IC201_060905C SeqNo: 943696 Prep Date: DF: 1 SPK Ref RPD Ref RPD Control Limit Value Limit Value Analyte Result PQL SPK Val %REC %RPD Qual Chloride 738.6 0.50 0 0 0 0-0 738.1 0.0642 20 Е Fluoride 0.10 3.13 0.157 0 0 0 0-0 0.162 20 Sulfate 0 Е 51.97 1.0 0 0 0-0 51.91 0.121 20 Surr: Selenate (surr) 5.038 0.10 5 0 101 80-120 5.039 0.0198 20

The following samples were analyzed in this batch:

0608511-06C

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

S - Spike Recovery outside accepted recovery limits

- Analyzed for our not detected

B - Analyte detected in assoc. Method Blank

E - Value above quantitation range QC Page: 30 of 32

10 Fage, 30 01 32

CLIENT: BBC International

Work Order: 0608511

Project: Hess Texaco

QC BATCH REPORT

											_		
Batch ID: R	41446	Instrument ID IC201		Metho	d: E300					40.1 e f-see ondoor			anna anna 11 anna 11
MBLK	Sample ID	WBLKW2-090606					Ur	nits: mg/L	-	Analys	is Da	ate: 09/06/	06 20:54
Client ID:			Run ID: IC201_	060906B		Se	qNo: 9444	159	Prep Date:			DF: 1	
Analyte		Resu	ilt PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%R	۶D	RPD Limit	Qual
Nitrate/Nitri	te (as N)	N	D 0.10										
Surr: Sel	len ate (surr)	5.37	5 0.10	5	·	0	108	85-115		0			
LCS	Sample ID	WLCSW2-090606/		<u></u>			Ur	nits: ma/L	-	Analys	is Da	ate: 09/06/	06 21:16
Client ID:	•		Run ID: IC201_	060906B		Se	qNo: 944 4	160	Prep Date:	-		DF: 1	
Analyte		Resu	ilt PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%R	PD	RPD Limit	Quai
Nitrate/Nitri	ite (as N)		.7 0.10	8		0	109	90-110	A REAL PROPERTY AND A REAL	0			anne artane, springer gern, denne t
Surr: Sei	lenate (surr)	5.2	.6 0.10	5		0	105	85-115		0	·		
LCSD	Sample ID	; WLCSDW2-09060				-	U	nits: mg/L		Analys	sis Da	ate: 09/06/	06 21:38
Client ID:			Run ID: IC201_	060906B		Se	qNo: 944 4	461	Prep Date:			DF: 1	
Analyte		Resu	it PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%R	PD	RPD Limit	Qual
Nitrate/Nitri	ite (as N)	8.66	0.10	8	and and below 20. We are a single state of the second	0	108	90-110		3.7 (449	20	
Surr: Se	lenate (surr)	5.24	8 0.10	5		0	105	85-115	5.	26 (.228	20	
MS	Sample ID	: 0609038-05AMS					Ur	nits: mg/L		Analys	sis Da	ate: 09/07/	06 1:17
Client ID:			Run ID: IC201_	060906B		Se	qNo: 944 4	465	Prep Date:			DF: 1	
Analyte		Resu	ilt PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%R	PD	RPD Limit	Qual
Nitrate/Nitri	ite (as N)	4.3	32 0.10	4		0	108	80-120		0			
Surr: Se	lenate (surr)	5.1	5 0.10	5		0	103	80-120		0		manancia i ne ncia	
MSD	Sample ID	: 0609038-05AMSD					Ui	nits: mg/L	_	Analys	sis Da	ate: 09/07 /	06 3:07
Client ID:			Run ID: IC201_	_060906B		Se	qNo: 944 4	176	Prep Date:			DF: 1	
Analyte		Resu	ult PQL	SPK Val	SPK Ref Value	Polo- 82 - 100	%REC	Control Limit	RPD Ref Value	%R	PD	RPD Limit	Qual
Nitrate/Nitri	ite (as N)	4.29	0.10	4		0	107	80-120	4.	32 (0.627	20	annon an a ballanda ann a
Surr: Sei	lenate (surr)	5.14	0.10	5	an to the two for the strong program.	0	103	80-120	5.	15 (). 155	20	

ND - Not Detected at the Reporting Limit

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

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limitsO - Referenced analyte value is > 4 times amount spiked

Commencial Association in the

we see that it interviewe when the transmission was supported as a

P - Dual Column results percent difference > 40%

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 31 of 32



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CLIENT: BBC International Work Order: 0608511

Project: Hess Texaco

QC BATCH REPORT

Batch ID: R	41446	Instrument ID IC201		Metho	d: E300				1 & 15 100.00 11 1 10 10 10 10 100000000		-	W-10 &
DUP	Sample ID:	0609038-05ADUP					U	nits: mg/l		Analysis Da	ate: 09/07	/06 0:55
Client ID:		R	un ID: IC201_	060906B		SeqNo): 944 4	463	Prep Date:		DF: 1	
Analyte		Result	PQL	SPK Vai	SPK Ref Value	%	REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrate/Nitril	le (as N)	ND	0.10	0		0	0	0-0		0 0	20	
Surr: Sele	enate (surr)	5.128	0.10	5		0	103	80-120	5.11	16 0.234	20	and the first offer state states and
Dichloroace	tic acid (surr)	ND	0.10	0		0	0	0-0		0 0	0	
The followi	ng samples v	vere analyzed in this bat	tch: 06	08511-01C 08511-04C	06 06	08511- 08511-	-02C -05C	06 06	08511-03C 08511-06C			

ND - Not Detected at the Reporting Limit

.

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 4()%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

QC Page: 32 of 32





L 3352 128th Avenue Holland, Michigan 49424 (Tei) 616.399.6070 Fax) 616.399.6185	e-Lab Work Order # ()\0000 5/1	ameter/Method Request for Analysis	Eull Sakeen	Ful) Saraan			DOON G'E					D E E E E E E E E E E E E E E E E E E E											Results Due Date: 		Blank, OC Package: (Check One Box Below)	Contraction of the second of t		
Page of 2 ody is a Legal Document. All information must be completed accur	e Lab Project Manager:	ject Information Para	Xaro State C. Lant N 3-8260	B 2270	ess (providition 6 (pot 0 B	and Barnes 0 7471 A	0. Box 840 E SM 450	Ninole TX 7436. 0 1100 1	32-758-6778 H 150.1			Matrix Pres. #Bottles A B. C	Water 8 2 1	Water 8 1	Water 4/7 1	Water 2 1	Water 1 3 V	Water 2 1	Water 8 2 V	Water 8 1	Water 4/7 I	Water 1 3	Rêqujed Turnarourid Tinie: (Check Box) 🛛 Oriea. 12 Srib 10 W. Days 📋 S W. Days 👘 2 W. Days	Notes:	Laboratory 10 10 10 00 00 00 00 00 00 00 00 00 00	Decretoryk	504 *7-Other 8-4°C 9-5035	
0450 Stanchtf Rd. #210 fouston, Texas 77099 Tcl) 281.530.5656 Fax) 281.530.5887 The Chain of Cust		Pr	Project Name 7	Project Number	z Lionz Blit to company H		arland Address	8824D Div/State(ZP)	(2388 Phone 4	0397 Ex	e-Mail Addreas	Jime	8/23/06 1050	8/23/06 1101	8/23/06 1105	8/23/06 1115	8/23/06 1119	8/23/04/1431	8/23/06 1436	8/23/06 1446	8/23/00 1450	8/23/04 1453	Fred Ex	Structure 200 pwn	ate: Time: Time:	tte: Checked by	H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaH	
		Customer Information	Purchase Order	Work Order	Company Name BBC Truck Viz	Send Report To Cliff Bruns	Address 1324 W. M	Chy/Strate/Zip 140 bbs NM	Phone 505-397-6	Tex 505-397 - 1	e-Mail Address	No. Sample Description	GLact MW1	2 GLad MWI	3 G Lad MW1	1 G Lind M W 1	G Laut MW1	G & Lact MW 2	7 G Lact MW 2	SG Lact MWZ	OG Lact MW2	10 G Lact MW 2	Sampler(e) Plazase Print & Sign Amu C. Ruth M. M. H.	Reing and by A L C Da	aeninquished by:	ogged by (Laboratory):	Preservative Key: 1-HCI 2-HNO ₃ 3-F	

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2006 by e-Lab Analytical, Inc.

CIIII C. 3352 128th Avenue Holland, Micigan 49424 (Tel) 616.399.6070	must be completed accurately. (FaX) 010.299.0160	Parameter/Method Request for Analysis	* S-8260B Full Sares	B 8270C Full Saren	6 6010 B	A 1747 A	E SM 4500 CN C,E	6 (60.1	± 150.1			S A B C D E F G A H I A HOU									(Check Box) Other Results Due Date:	Notes:	e-Leb Analytical Trip Blank OC Packeges (Chieck One Box Below) Construction Cooler 10 Minutes International States Cooler 10 Minutes Internationa States Cooler 10 Minutes Int	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Convright 2006 hv e-I ah Analytical Inc
Page 2 of 2	lin of Custody is a Legal Document. All Information	Project Information			W HESS CONPONDER Dion	Randy Barnes	R. O. Box 840	B Seminole, TX 79360	# 432-758-6778			Time Matrix Pres. 1 Bottles	003 Water 8 2	1845 Water 8 1	1054 Water 4/7 1	1101 Water 2 1	1108 Water 1 3				Method Required Turnaround Time.	Eceived by:	acqueed by (Laboratory) () () () () ()	hocked by waboratory):	6-NaHSO4 7-Other 8-4C 9-5035	en submitted to e-Lab Analytical. Inc.
 10450 Stancliff Rd. #210 Houston, Texas 77099 (Tel) 281,530,5656 (Fax) 281,530,5887 		Information	Project Na	Project Num	Theornational Bill to compa	BY HUS ON Involce A	W. Marland Addi	S, NN 88245 Convention	347-6388 BHO	397- 0397	e-Mail Addre	Describtion	5 8/24/06	8/24/06	15 8/24/0C	15 8/24/06	5- 8/24/060				Amis Statle Field	Date: Date: Time: 200 DV	Date:		2-HNO ₃ 3-H ₃ SO ₁ 4-NaOH 5-Na ₂ S ₂ O ₄	ade in writing once samples and COC Form have b
	QUALITY - INTEGRITY - SERVICE	Customer	Purchase Order	Work Order	Company Name BBC	Send Report To	Address 1324	City/State/Zip 146 bg	Phone 505-	Fax 505-	e-Mail Address	No. Sample I	I G Lact MW	2 G Lack MLN	3 G Lact MW	A G Laut ML	5 Cr Lact MW	6	6	104	Sampler(s) Please Print & Sign Am & C. R. Hh	Relinduished by N	Relinquished by:	Logged by (Laboratory):	Preservative Key: 1-HCI	one: 1. Any changes must be m

Any stranges must be made in writing one compression core around the ensity of a strange many real me.
 Unless alberwise agreed in a formal contract, services provided by e-Lab Analytical, fac, are expressly limited to the terms and conditions stated on the reverse.

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3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

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			e-Lab Project Manager:	e Lab Work Order #
Custom	ner Information		Project Information	Parameter/Method Request for Analysis
Purchase Order		Project Name		A S-8260 B Full Sareen
Work Order		Project Number		B 82700 Full Sereen
Company Name BBC	L International	Bill To Company	Hess Covooration	6 6010 B
Send Report To	IT Bruason	Invoice Attn	Randy Barnes	D 7471 A
Address 12.78	U LI Marland	Address	P.0. Box 840	3M 1500 CN C,E
				F 300 0
City/State/Zip 14 0b1	62 NM 88240	Ctb//State/Zip	Seminole TX 79360	6 160.
Phone 505	- 347-6388	Phone	432-753-6778	H 150 1
Fex 505	- 347- 0397	764		
e-Wail Address		e-Mail:Address		
No. Samp	pie Description	Date	me Matrix Pres 4 Bottles	A BUT COLORED FROM GUT H
I Laut N	1W 4	8/24/06 13	01 Water 8 2	>
2 G Ladt N	1 <u>1</u> 4	8/24/04 13	08 Water 2 1	>
3 G Lact M	1 M 4	8/24/04 13	14 Water 8 1	
4 G Lact M	1 M 4	8/24/06 13	16 Water 4/7 1	
5 G Lact M	₩ H	8/24/06 13	20 Water 1 3	
· G Lact M	2	21 20/24/2	03 Water 2 1	
7 G Lart M	E C	8/24/D6 15	07 Water & 1	
B G Lact M	M (c	8/24/06 15	08 Water 4/7	
· G Lact M	K 6	8/24/06 15	11 Water 1 3	
10 G Lact M	WG	8/24/06 14	54 Waler 8 2	
Sampler(s) Please Print & Sig Amun C Ruth	Mm Cent	Shipment Meth Fed Ex	rod Required Turnaround Time: (C	heck Box) 🗇 Other
Rainghished by I Y	T Dates 11	The: Received	led by:	Notes:
Beinquishedby:		ime:	Completion (Laboration) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	e Lab Analytical (* Trip Blank OC Package: (Check One Box Below)
Logged by (Laboratory):		Time: Check	ed bit Laboratory):	Control of the second of the second state of the second state of the second state of the second s
Preservative Key: 1-HUI	2-HNO, 3-H-SO, 4-NaC	0H 5-Na2S203 6-	-NaHSO4: 7-Other 8-4"C 9-5035	

Vote: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab Analytical, Inc. 2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical, Inc. are expressly limited to the terms and conditions stated on the reverse.

Copyright 2006 by e-Lab Analytical, Inc.

	3352 128th Avenue Holland, Michigan 49424 (Tel) 616.399.6070 (Fax) 616.399.6185	etab work order # 000351	Parameter/Method Request for Analysis	60B FAIL SLIVEON	IC FAIL SULVED	භි	A	4500 CN CJE] coties Results Due Date: XWX base A.Hour		Thb Blank OC Package: (Check One Box Below)	Level III Studies Data TRRP Level IV SW846/CLP		Copyright 2006 by e-Lab Analytical, Inc.
	Custody is a Legal Document. All information must be complete	e Lab Project Manager:	Project Information	A S-82	B 2276	Hess Corporation 6 4010	Randu Barnes D 7471	P.D. Box 840 E 3M	Syminole TX 79360 0 160.	432-758-6778 H 150			ine 👘 Matrix 🖉 🔤 Pres 👘 # Bottles 🕅 🗚 👘 🖶	Water 1 3	Water 2 V	Water 2 1	Water 4/7 1	Wäter 8 1	45 Water 1 3 1		od Required Turnaround Time: (Check Box)	ed by: Notes:	ed by (Laboratory) O O (O - Lab Anaprical	ed by Taboratony:	NaHS04557-Other: 8-4°C 9-5035.	thmitted to e-Lab Anatytical, Inc.
	Rd. #21() s 77099 656 8887 The Chain of			Project Name	Project Number	Bill To Company	Invoice Attn	Address	City/State/Zip	Brone	Fax	e-Mail Address	Date	8/24/06	90/42/8	8/24/06	8/24/06	8/24/04	8/24/06 15.		Shipment Meth	Time: Receive	Time: T	Time	OH 5-Na ₂ S ₂ O ₃ 6-	d COC Form have been su
	104505 Stancini Houston, Texa (Fel) 281.530.5 • SERVICE		Customer Information			BBC International	CLIPT Brunson	1324 W. Marland	Holdes, NN 88240	505-347-12388	505-397-0397		Sample Description	Le contraction de la contracti	te	te	146	te	ient Ringate		Int & Sugn A	Date: Date: 2/25/010	Date:		1-HCI 2-HNOs 3-HISOI 4-NE	must be made in writing once samples an
۲	RECEIVED AND ADDRESS			Puirchase Order	Work Order	Company Name	Send Report To	Address	City/State/Zip	Phone	Fax	e-Mail Address	No.	Duplica	2 Duplica	3 Duplids	1 Duplic	E Duplius	Equipm	9	Sampler(s) Please Pr	Balloedshed by:	Relinquished by:	Logged by (Laboratory):	Preservative Key:	ote: I. Any changes

2. Unless otherwise agreed in a formal contract, services provided by e-Lab Analytical. Inc. are expressly limited to the terms and conditions stated on the reverse.

Sample Receipt Checklist

Client Name <u>BBC</u>		Date/Time Received: 8/26/2006 8:15:00 AM
Work Order Number 0608511		Received by: <u>RSZ</u>
	ACHC2_0.26 (b	Reviewed by Invise 5/30/00
Matrix:	Carrier name <u>FedEx</u>	
Shipping container/cooler in good condition?	Yes 🗸	No Not Present
Custody seals intact on shipping container/coo	ler? Yes	No Not Present 🗸
Custody seals intact on sample bottles?	Yes 🗍	No 😳 — Not Present 🔗
Chain of custody present?	Yes 🗹	Νο
Chain of custody signed when relinquished and	f received? Yes 🗹	No 🗌
Chain of custody agrees with sample labels?	Yes 🖌	No 🗍
Samples in proper container/bottle?	Yes 🔽	No [_]
Sample containers intact?	Yes 🗹	No
Sufficient sample volume for indicated test?	Yes 🖌	Νο
All samples received within holding time?	Yes 🗹	No []]
Container/Temp Blank temperature in complian	nce? Yes 🗹	Νο
Temperature(s)/Thermometer(s);	<u>3.7c, 2.9c</u>	002
Water - VOA vials have zero headspace?	Yes 🗹	No 🗔 No VOA vials submitted 🔲
Water - pH acceptable upon receipt?	Yes 🖌	NO NA
	Adjusted? Ch	hecked by
Login Notes: Trip blank not on COC; log	ged in without analysis.	
	· · · · · · · · · · · · · · · · · · ·	
Client contacted	Date contacted:	Person contacted
Contacted by:	Regarding:	
Comments:	· · · · · · · · · · · · · · · · · · ·	
		•••
Corrective Action		
···· · · · · · · · · · · · · · · · · ·	····· · · · · · · · · · · · · · · · ·	

0612163-01

Date: December 20, 2006

Client Sample ID: MW-3 Collection Date: 12/7/2006 1:03:00 PM

Matrix: WATER

Report Dilution Analyses Result Qual **Date Analyzed** Limit Units Factor MERCURY, TOTAL SW7470 Prep Date: 12/18/2006 Analyst: JCJ Mercury ND 0.000200 12/18/2006 5:13:55 PM mg/L 1 **ICP METALS, TOTAL** SW6020 Prep Date: 12/11/2006 Analyst: SA Aluminum ND 0.0100 12/12/2006 1:51:00 PM mg/L 1 Arsenic 0.0310 0.00500 1 12/12/2006 1:51:00 PM mg/L Barium 0.234 0.00500 1 12/12/2006 1:51:00 PM mg/L Boron 0.379 12/12/2006 1:51:00 PM 0.0200 mg/L 1 Cadmium ND 0.00200 mg/L 1 12/12/2006 1:51:00 PM Chromium ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM Cobalt ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM Copper ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM Iron 0.767 0.200 mg/L 1 12/12/2006 1:51:00 PM Lead ND 0.00500 mg/L 12/12/2006 1:51:00 PM 1 Manganese 2.18 Ε 0.00500 12/12/2006 1:51:00 PM mg/L 1 Molybdenum 0.0149 0.00500 mg/L 1 12/12/2006 1:51:00 PM Nickel 0.00856 0.00500 mg/L 1 12/12/2006 1:51:00 PM Selenium ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM Silver ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM Zinc ND 0.00500 mg/L 1 12/12/2006 1:51:00 PM SEMIVOLATILE ORGANICS BY GC/MS SW8270 Prep Date: 12/9/2006 Analyst: HV 1,2,4,5-Tetrachlorobenzene ND 10 µg/L 1 12/13/2006 7:39:00 PM 1,2-Diphenylhydrazine ND 10 µg/L 1 12/13/2006 7:39:00 PM 1-Methylnaphthalene ND 10 µg/L 1 12/13/2006 7:39:00 PM 2,3,4,6-Tetrachlorophenol ND 10 µg/L 12/13/2006 7:39:00 PM 1 2,4,5-Trichlorophenol ND 10 µg/L 12/13/2006 7:39:00 PM 1 2,4,6-Trichlorophenol ND 10 µg/L 12/13/2006 7:39:00 PM 1 2,4-Dichlorophenol ND 10 µg/L 12/13/2006 7:39:00 PM 1 2,4-Dimethylphenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 2,4-Dinitrophenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 2,4-Dinitrotoluene ND 10 µg/L 1 12/13/2006 7:39:00 PM 2,6-Dichlorophenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 2-Chlorophenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 2-Methylnaphthalene ND 10 µg/L 1 12/13/2006 7:39:00 PM 2-Methylphenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 2-Nitrophenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 3&4-Methylphenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 3,3'-Dichlorobenzidine ND 10 µg/L 1 12/13/2006 7:39:00 PM 4,6-Dinitro-2-methylphenol ND 10 µg/L 1 12/13/2006 7:39:00 PM 4-Chloro-3-methylphenol ND μg/Ľ

Qualifiers:

ND - Not Detected at the Reporting Limit Snike Recovery outside accepted recovery limits J - Analyte de lim B - Analyte dereted in the

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* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

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12/13/2006 7:39:00 PM



CLIENT:	BBC International
Work Order:	0612163
Project:	Texaco NM State G
Lab ID:	0612163-01

Date: December 20, 2006

Client Sample ID: MW-3 Collection Date: 12/7/2006 1:03:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
4-Nitrophenol	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Acenaphthene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Acenaphthylene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Anthracene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Benz(a)anthracene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Benzidine	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Benzo(a)pyrene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Benzo(b)fluoranthene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Benzo(g,h,i)perylene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Benzo(k)fluoranthene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Bis(2-chloroethyl)ether	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Bis(2-chloroisopropyl)ether	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Bis(2-ethylhexyl)phthalate	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Chrysene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Di-n-butyl phthalate	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Dibenz(a,h)anthracene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Diethyl phthalate	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Dimethyl phthalate	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Fluoranthene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Fluorene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Hexachlorobenzene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Hexachlorocyclopentadiene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Hexachloroethane	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Indeno(1,2,3-cd)pyrene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Isophorone	ND		10	μg/L	1	12/13/2006 7:39:00 PM
N-Nitroso-di-n-butylamine	ND		10	µg/L	1	12/13/2006 7:39:00 PM
N-Nitrosodiethylamine	ND		10	μg/L	1	12/13/2006 7:39:00 PM
N-Nitrosodimethylamine	ND		10	µg/L	1	12/13/2006 7:39:00 PM
N-Nitrosodiphenylamine	ND		10	µg/L	1	12/13/2006 7:39:00 PM
N-Nitrosopyrrolidine	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Naphthalene	ND		10	μg/L	1	12/13/2006 7:39:00 PM
Nitrobenzene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Pentachlorobenzene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Pentachlorophenol	ND		10	µg/Ĺ	1	12/13/2006 7:39:00 PM
Phenanthrene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
Pyrene	ND		10	µg/L	1	12/13/2006 7:39:00 PM
VOLATILES BY GC/MS			SW8260)		Analyst: PC
1,1,1-Trichloroethane	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,1,2-Trichloroethane	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM

Qualifiers:

 ND - Not Detected at the Reporting Limit
 S - Spik

 J - Analyte de sterber w cantil uch limi
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 B - Analyte de sterber w cantil uch limi
 I Va

S - Spike Recovery outside accepted recovery limits I Du Colum results for rent d centre > 3/4 I Vare above quantitation rung

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 2 of 4

CLIENT: BBC International Work Order: 0612163 **Project:** Texaco NM State G Lab ID: 0612163-01

Date: December 20, 2006

Client Sample ID: MW-3 Collection Date: 12/7/2006 1:03:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1,1-Dichloroethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,1-Dichloroethene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,1-Dichloropropene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,2-Dibromoethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,2-Dichlorobenzene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
1,2-Dichloroethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
Acrolein	ND		20	µg/L	1	12/13/2006 4:46:00 PM
Acrylonitrile	ND		10	µg/L	1	12/13/2006 4:46:00 PM
Benzene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
Bromodichloromethane	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Bromomethane	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Carbon tetrachloride	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Chlorobenzene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Chloroform	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Chloromethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
cis-1,2-Dichloroethene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
cis-1,3-Dichloropropene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Dichlorodifluoromethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
Ethylbenzene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
m,p-Xylene	ND		10	μg/L	1	12/13/2006 4:46:00 PM
Methylene chloride	ND		10	µg/L	1	12/13/2006 4:46:00 PM
o-Xylene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Tetrachloroethene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Toluene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
Trichloroethene	ND		5.0	μg/L	1	12/13/2006 4:46:00 PM
Trichlorofluoromethane	ND		5.0	µg/L	1	12/13/2006 4:46:00 PM
Vinyl chloride	ND		2.0	µg/L	1	12/13/2006 4:46:00 PM
Surr: 1,2-Dichloroethane-d4	98.1		70-125	%REC	1	12/13/2006 4:46:00 PM
Surr: 4-Bromofluorobenzene	93.0		72.4-125	%REC	1	12/13/2006 4:46:00 PM
Surr: Dibromofluoromethane	94.4		71.2-125	%REC	1	12/13/2006 4:46:00 PM
Surr: Toluene-d8	90.8		75-125	%REC	1	12/13/2006 4:46:00 PM
ANIONS BY ION CHROMATOGRAPHY			E300			Analyst: LMD
Chloride	109		2.50	mg/L	5	12/9/2006 4:22:00 PM
Fluoride	2.13		0.100	mg/L	1	12/9/2006 4:00:00 PM
Nitrogen, Nitrite (As N)	ND		0.100	mg/L	1	12/9/2006 4:00:00 PM
Sulfate	17.4		1.00	mg/L	1	12/9/2006 4:00:00 PM
Nitrate/Nitrite (as N)	1.02		0.100	mg/L	1	12/9/2006 4:00:00 PM
Surr: Selenate (surr)	94.3		80-120	%REC	1	12/9/2006 4:00:00 PM

Qualifiers:

B - Analyte descted inte a * - Value exceeds Maximum Contaminant Level

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ND - Not Detected at the Reporting Limit

J - Analyte de

Va - al ove quant ation ing H - Analyzed outside of Hold Time

Coluitoresults

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Snike Recovery outside accepted recovery limits

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AR Page 3 of 4

Date: December 20, 2006

CLIENT:BBC InternationalWork Order:0612163Project:Texaco NM State G

Lab ID: 0612163-01

Client Sample ID: MW-3 Collection Date: 12/7/2006 1:03:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
Surr: Selenate (surr)	93.8		80-120	%REC	5	12/9/2006 4:22:00 PM	
CYANIDE, TOTAL Cyanide	ND		E335.3 0.0200	mg/L	1	Analyst: LMD 12/18/2006	
PH pH	6.96	н	E150.1 0.100	pH units	1	Analyst: RPM 12/9/2006	
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	526		E160.1 10.0	mg/L	1	Analyst: MAM 12/9/2006	



APPENDIX III

Site Photographs

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.







Texaco State "G" Lact Unit Battery #22 Tank Battery Area



Texaco State "G" Lact Unit Battery #22 excavation of Burn Pit



Texaco State "G" Lact Unit Battery #22 Battery Excavation



Texaco State "G" Lact Unit Battery #22 Tank Battery Area and Burn Pit





Texaco State "G" Lact Unit Battery #22 Burn Pit



Texaco State "G" Lact Unit Battery #22 Burn Pit





Texaco State "G" Lact Unit Battery #22 drilling of SB3



Texaco State "G" Lact Unit Battery #22 Burn Pit with SB1 at bottom



IONALAL

Texaco State "G" Lact Unit Battery #22 drilling of MW2



Texaco State "G" Lact Unit Battery #22 excavation of Burn Pit rim



Texaco State "G" Lact Unit Battery #22 Burn Pit backfill of fines to 6' bgs



Texaco State "G" Lact Unit Battery #22 Burn Pit installation of clay liner



Texaco State "G" Lact Unit Battery #22 backfill of Burn Pit complete

APPENDIX IV

Drilling Logs

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

Prepared by: BBC International, Inc.



Project Name:	Texaco NM State G Battery #22	Project No.:	
Borehold Number:	MW-1	Logged by:Alan Eades	
Drilled by:	Eades Drilling	Drilling/Rig Method(s): <u>Air Rotary</u>	
Date/Time Started:	6/06/06 14:30	Date/Time Completed: 6/06/06 17:00	
Air Monitoring Type:		GWL Depth:	

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
0 -		0' - 2'		Top Soil				Inner Casing
-		2'-6'		Caliche				2. Protective
		6' - 30'		Sand				0° Non-Shrink Groat 2° Hush-joint- threaded, Schedule 40 Pyre carsing and screening 30° Diancker 104 30° Diancker 30° D
- 25 - 								Well Soit Chips
- 35 - - -								

Comments: ____

Technician Signature: _____



Project Name: Texaco NM State G Battery #22	Project No.:
Borehold Number: <u>MW-2</u>	Logged by: Alan Eades
Drilled by: Eades Drilling	Drilling/Rig Method(s); <u>Air Rotary</u>
Date/Time Started: 6/08/06 16:30	Date/Time Completed: 6/09/06
Air Monitoring Type:	GWL Depth:

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	P1D Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
0 -		0'-2'		Top Soil				Inner Casing
- - 5		2'-6'		Caliche				2' Protective Cosing Ground Surface
		6' - 29'		Sand				0* 2* Thesh-joints Decessed Schedule 40 PY-C
- 25 - 								29 [•] Los Sand

Comments: ____

Technician Signature:



Project Name:Texaco NM State G Battery #22	Project No.:
Borehold Number: <u>MW-3</u>	Logged by: <u>Alan Eades</u>
Drilled by: Eades Drilling	Drilling/Rig Method(s): <u>Air Rotary</u>
Date/Time Started:	Date/Time Completed: <u>6/09/06</u>
Air Monitoring Type;	GWL Depth:

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
0 -		0' - 2'		Top Soil				Inner Casing Cap
- - 5		2'-6'		Caliche				21 Protective Casing Ground Surface
		6' - 30'		Sand				0'
- - 25 - -								Well Sof Chips
30 - - - - 35								30° End Cap
-								

Comments: _____



Technician Signature:



 Project Name:
 Texaco NM State G Battery #22
 Project No.:

 Borehold Number:
 MW-4
 Logged by:
 Alan Eades

 Drilled by:
 Eades Drilling
 Drilling/Rig Method(s):
 Air Rotary

 Date/Time Started:
 7/10/06
 12:15
 Date/Time Completed;
 7/10/06

 Air Monitoring Type:
 GWL Depth;
 GWL Depth;
 GWL Depth;

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
() 		0'-2'		Top Soil				Inner Casing Cap
- - 5		2' - 6'		Caliche				2' Protective Craining Cround Surface
		6' - 32`		Sand				0 2" Unshorints threaded. Schedule 40 PV-C caving and scheming
								Vell Seal Chips
35 - -								32"

Comments: ____

Technician Signature: _____





 Project Name:
 Texaco NM State G Battery #22
 Project No.:

 Borehold Number:
 MW-5
 Logged by:
 Alan Eades

 Drilled by:
 Eades Drilling
 Drilling/Rig Method(s):
 Air Rotary

 Date/Time Started:
 7/10/06
 14:25
 Date/Time Completed;
 7/10/06

 Air Monitoring Type:
 GWL Depth;
 GWL Depth;
 GWL Depth;

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
0 - - 5 - - - -		0' - 2' 2' - 6'		Top Soil Caliche				2
10 - - 		6' - 32'		Sand				ihraudul Schedite 40 PYC — — S Greining and Streening
								Well Sad Chips
								32' Είσι Caρ

Comments: ____

Technician Signature:



Project Name: Texaco NM State G Battery #22	Project No.:
Borehold Number <u>: MW-6</u>	Logged by: Alan Eades
Drilled by: Eades Drilling	Drilling/Rig Method(s): <u>Air Rotary</u>
Date/Time Started:7/10/065:53	Date/Time Completed: 7/10/06
Air Monitoring Type <u>:</u>	GWL Depth:

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	USCS Symbol	Comments	Monitor Well Construction Detail
++++++++++++++++++++++++++++++++++++++	Sample Number	0, - 5, - 2, - 6, - 32, - 6, - 32, - 6, - 32, - 6, - 32, - 6, - 6, - 32, - 6, - 6, - 6, - 6, - 7, - 6, - 7, - 6, - 7, - 6, - 7, - 7	Sample Type	Top Soil Caliche Sand	PID Reading (ppm)	USCS Symbol	Comments	Detail
								35° Fand Cop

Comments: ____

Technician Signature: _____

APPENDIX V

Correspondence

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole; Texas

October, 2006

Prepared by: BBC International, Inc.

Amy C. Ruth

From: Price, Wayne, EMNRD [wayne.price@state.nm.us]

Sent: Tuesday, July 11, 2006 12:03 PM

To: Cliff P. Brunson

Cc: Drew Hall ; Amy C. Ruth; Jennifer Gilkey

Subject: RE: Hess Corp - Texaco State G Lact Unit Battery 22 - AP-57

OCD hereby approves with the following condition:

- 1. This E-mail approval will be included in the Stage 1 proposal.
- 2. Notify the District office of future activities.

Please be advised that NMOCD approval of this plan does not relieve the owner/operator of responsibility should operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Monday, July 10, 2006 2:44 PM
To: Price, Wayne, EMNRD
Cc: Drew Hall ; Amy C. Ruth; Jennifer Gilkey
Subject: RE: Hess Corp - Texaco State G Lact Unit Battery 22 - AP-57

Wayne,

This message is to confirm our conversation on the morning of July 7, 2006, concerning the burn pit excavation at the Hess Texaco State G Lact Unit Battery site which has been assigned an abatement number of AP-57. As we discussed, Hess is requesting an emergency action to backfill this open excavation due to safety concerns. The excavation is 15 feet deep with sheer walls and poses a safety risk. The excavation will be backfilled with clean soil to six (6) feet below ground surface then a one foot thick compacted clay liner will be installed then covered with five (5) feet of clean top soil.

In addition to our conversation, I want to remind you that Hess will be advancing additional groundwater monitoring wells the week of July 10th to further delineate the hydrocarbon plume that exists on the water table. A Stage 1 Abatement Report will be submitted shortly after completion of the backfilling and installation of the additional monitoring wells. The Stage 1 report will include descriptions of all site activities, analytical data, site and potentiometric maps and all requirements for the abatement process. Hess will address remedial options for the groundwater and the remaining impacted soil in the bottom of the burn pit in consultation with you and in additional reports as we flow through the Abatement process.

I appreciate your cooperation and approval on this matter as the hydrocarbon impact is addressed and remediated.

Thanks,

Cliff

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please

immediately notify the sender by e-mail or by collect telephone call to (505) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland Blvd. Hobbs, NM 88240 USA Phone: (505) 397-6388 Fax: (505) 397-0397 E-mail: <u>cbrunson@bbcinternational.com</u> Web: <u>www.bbcinternational.com</u>

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Amy C. Ruth

From: Williams, Chris, EMNRD [chris.williams@state.nm.us]

Sent: Friday, December 01, 2006 2:49 PM

To: Amy C. Ruth

Subject: RE: Backfill Event - Hess Corp Abandoned Tank Battery in Monument

OK to backfill battery only. We will worry about the burn pit separately. Chris

Chris Williams District 1 Supervisor

From: Amy C. Ruth [mailto:Amy@bbcinternational.com]
Sent: Fri 6/30/2006 10:51 AM
To: Williams, Chris, EMNRD
Cc: Sheeley, Paul, EMNRD; 'Barnes, Randy'; drewhall@hess.com; Jennifer; 'Cliff P. Brunson'
Subject: Backfill Event - Hess Corp Abandoned Tank Battery in Monument

Chris,

Per your conversation with Cliff Brunson yesterday afternoon, the battery site of the Texaco State G Lact Battery 22 will be backfilled beginning Wednesday, July 5, 2006. If you have any questions, please contact me.

Thank you,

Amy C. Ruth

Environmental Scientist BBC International, Inc. Phone: 505-397-6388 Cell: 505-441-5252

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

November 1, 2006

Hess Corporation Attn: Drew Hall P.O. Box 840 Seminole, Texas 79360

RE: Stage 1 Abatement Plan (AP-57) for the Texaco New Mexico State "G" Battery #22 Unit Letter N, Section 19, T19S, R37E, Lea County, New Mexico AP057

Dear Mr. Hall:

The Oil Conservation Division (OCD) has received Hess Corporation's (Hess) Stage 1 Abatement Plan (AP-57) for the Texaco New Mexico State "G" Battery #22, dated October, 2006. The OCD has conducted an initial review of the Plan and cannot deem the Plan administratively complete because Hess has not submitted all the information required by Rule 19.E(3). I have attached a list of items that must be included as part of the Stage 1 Abatement Plan in accordance with Rule 19.E(3) (19.15.1 NMAC). Although the OCD cannot officially comment on technical issues until the Stage 1 Abatement Plan has been deemed administrative complete, the attached list offers some preliminary technical comments for your consideration.

Please address each item in the attached list and submit a revised Stage 1 Abatement Plan within 30 days of receipt of the this letter. Once these items have been adequately addressed, then the OCD can deem the Stage 1 Abatement Plan complete. Also, after the Stage 1 Abatement Plan is complete, then the OCD will advise you regarding the required Public Notice. If you have any questions regarding this matter, please call me at 505-476-3489.

Sincerely,

Edward J. Hansh

Edward J. Hansen Hydrologist Environmental Bureau

EJH:ejh

cc: Larry Johnson; OCD; Hobbs District Office Cliff P. Brunson, CEI, CRS; President; BBC International, Inc.; Hobbs

AP-57: Stage 1 Abatement Plan Administrative and Preliminary Technical Comments

1. Please describe in detail the nature of the release; i.e., describe what was released from where and when at the site. Also, please include in the Stage 1 Abatement Plan the Form C-141 for this site. [Rule 19.E.(3)(a)]

2. Provide additional information regarding the volume of material excavated of both the G Lact Pile and the Burn Pit Rim Spoils and the landfarm(s) where the material was disposed. Also, please provide additional information regarding the depth to which the Battery Area was excavated and the landfarm(s) where the material was disposed. [Rule 19.E.(3)(a)]

3. Regarding the backfilling: this was represented to the Division as an emergency situation and you were proceeding at risk. Please indicate the purpose of the clay liner. Provide the hydraulic conductivity and the source of the material used for the clay liner. Also, provide the source of the material for backfilling the Battery Area Excavation and the Associated Pit Excavation. [Rule 19.E.(3)(a)]

4. Please indicate in Table 1 if the soil samples labeled, "MW-4", are from the currently labeled bolehole, SB-4. Also, please correct the sample date from "6/12/06" to 6/8/06 for these corresponding samples. In addition, please indicate in Table 1 if the soil sample labeled "SB-2" is from the currently labeled monitoring well, MW-1. [Rule 19.E.(3)(a)]

5. Please include a brief description of the Ogallala Aquifer specific to the site, including hydraulic conductivity, probable aquifer thickness at the site, an estimated velocity of ground water flow (these values may be obtained from regional hydrologic studies). [Rule 19.E.(3)(b)]

6. Also, provide an inventory of water wells within one mile of the site; especially those wells that could be potentially impacted by the release (these well locations may be obtained from the website of the Office of the State Engineer: <u>http://iwaters.ose.state.nm.us:7001/iWATERS/</u>). [Rule 19.E.(3)(b)]

7. MW-5 and MW-6, the most downgradient monitoring wells indicate concentrations above the apparent background concentrations for various constituents (and also above the numeric ground water protection standard). Please include an east-west geological cross-section of the site and a north-south geological cross-section of the associated pit area. The cross-sections should include concentration isopleths for constituents of concern. Also, please include a site plan map with concentration isopleths for constituents of concern. [Rule 19.E.(3)(b)]
AP-57: Stage 1 Abatement Plan Administrative and Preliminary Technical Comments

8. Please include a ground water monitoring plan that will be conducted as part of the Stage 1 Abatement Plan, including which monitoring wells will be sampled, which parameters will be analyzed, and at what frequency. The monitoring plan must include the sampling of ground water in monitoring wells even if NAPL is present. Also, please submit the ground water monitoring well construction diagrams for each well installed at the site. [Rule 19.E.(3)(c)]

9. Provide a schedule for further site investigation activities. Specifically, in the central portion of the Tank Battery Area there were TPH concentrations exceeding OCD's recommended remediation level of 100 mg/Kg (e.g., soil sample points: #4, #5, and #8) for this site. Also, in the area of the Associated Pit, TPH concentrations greater than the recommended remediation level were detected. Please indicate what further investigation will be conducted to delineate the TPH concentrations in these areas. [Rule 19.E.(3)(e)]

10. In addition, elevated concentrations of chloride were detected in SB-3, SB-4 and MW-3. Please indicate what further investigation will be conducted to delineate the chloride concentration in the vadose zone in the area of the Associated Pit. [Rule 19.E.(3)(e)]

11. Additional groundwater monitoring (e.g., MW-3) must be conducted to delineate the ground water contamination. This may also require additional ground water monitoring well to be installed at the site (e.g., downgradient of MW-6). [Rule 19.E.(3)(e)]

12. Provide the "survey" that was referenced in the letter from the abstract company that obtained the addresses of the surface owners. [Rule 19.G.(1)(a)]

APPENDIX VI

List of Surface Owners

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

October, 2006

1819 N. Turner, Suite B Hobbs, N.M. 88240 Phone (505) 393-7706 Fax (505) 393-7725



115 E. Washington Lovington, N.M. 88260 Phone (505) 396-5846 Fax (505) 396-2490

ELLIOTT & WALDRON TITLE & ABSTRACT CO., INC.

August 29, 2006

BBC International Mr. Cliff Brunson 1324 W. Marland Blvd Hobbs, N.M.88240

Dear Cliff,

Pursuant to your request, please note the following names and addresses of the property owners located within the radius noted on the attached survey;

Portion located in Section 18, Township 19 South, Range 37 East Jimmie T. Cooper and Betty B. Cooper Trust Star Route A. Box 55 Monument, N.M. 88265

Portion located in Section 19, Township 19 South, Range 37 East Jimmie T. Cooper and Betty B, Box 55 Monument, N.M. 88265

Portion located in Section 13, Township 19 South, Range 36 East El Paso Natural Gas Company P.O. Box 1087 Colorado Springs, Co 80944

Portion located in Section 29, Township 19 South, Range 37 East State of New Mexico Commissioner of Public Lands

Portion located in Section 24, Township 19 South, Range 36 East Jimmie T. Cooper and Betty B. Cooper Trust and Jimmie T. Cooper Star Route A. Box 55 Monument, N.M. 88265

Portion located in Section 25, Township 19 South, Range 36 East Betty Baum Cooper & Jimmie T. Cooper Star Route A. Box 55 Monument, N.M. 88265

Portions located in Section 30, Township 19 South, Range 37 East; Roy Stoffer Box 201 Monument, N.M. 88265

Ernest D. Long 9529 W. Monument RD Hobbs, N.M. 88240

H.F. Stephens Box 24 Monument, N.M. 88265

Morris Shepard General Delivery Monument, N.M. 88265

C.E. Dickson P.O. Box 166 Monument, N.M. 88265

DLD Corporation 3027 Point Clear Dr. Fort Mill, SC 29715

Jacky C. & Loretta Byrd 2806 N. Fowler Hobbs, N.M. 88240

Linda Dunn P.O. Box 463 Hobbs, N.M. 88241

Marcos and Shawna Prada P.O. Box 374 Hobbs, N.M. 88240





Danny A. Dickenson 1837 N. Steven Dr. Hobbs, N.M. 88240

Stephen W. Barr 11424 State Hwy 322 Monument, NM 88265

Melanie & Chris Allen P.O. Box 5 Monument, N.M. 88265

Mike Foreman P.O. Box 193 Monument, N.M. 88265

Jose & Leticia Martinez 1004 E. Clinton Hobbs, N.M. 88240

Brad Graj P.O. Box 2550 Hobbs, N.M. 88241

If you should need any further information please do not hesitate to give me a call.





DAP/sf



APPENDIX VII

C-141 Form

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

December, 2006

State

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

			OPERATO	R	Initial Report	x	Final Report
Name of Compar	ny Hess (Corporation	Contact Ra	ndy Barnes			
Address P.O.	Box 840, Se	minole, TX 79360	Telephone No.	(432) 758-6778			
Facility Name	Texaco Ne	w Mexico G State Battery #22	Facility Type	Abandoned Tank	Battery		
Surface Owner	State	Mineral Owne	r		Lease No.		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	19	19S	37E					Lea

Latitude 32° 38.424' Longitude 103° 17.668'

NATURE OF RELEASE

Type of Release Historical	Volume of Release Unknown	Volume Re	covered Unknown
Source of Release Unknown	Date and Hour of Occurrence Un	K Date and H	lour of Discovery Unknown
Was Immediate Notice Given?	If YES, To Whom?		
Yes No 🕵 Not Required			
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	· · · · · · · · · · · · · · · · · · ·
🗋 Yes 🔀 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.*			
Hydrocarbon contamination of soil by oil production activities. S	ite investigation was conducted ir	preparation	for cleanup activities. A
remediation plan was developed.	e	1 1	
Describe Area Affected and Cleanup Action Taken.*			
Contaminated soil was removed from the site and taken to a NMC	CD approved landfarm. Ground	water monito	ring wells were installed,
purged, and sampled. Before backfilling, closing samples were co	ollected to confirm compliance to	guidelines. 1	The site was backfilled with
clean soil and contoured.		-	
I hereby certify that the information given above is true and complete to	the best of my knowledge and unders	tand that pursu	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release n	notifications and perform corrective a	ctions for relea	ases which may endanger
public health or the environment. The acceptance of a C-141 report by the	ne NMOCD marked as "Final Report"	does not relie	ve the operator of liability
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water,	surface water, human health
federal state or local laws and/or regulations	does not relieve the operator of respon	isibility for co	mpliance with any other
	OIL CONSER	VATIONI	DIVISION
	<u>OIE CONSER</u>	VATION	51 4 151011
Signature: 1 mu the help			
	Approved by District Supervisor:		
Printed Name: Amy C. Ruth			<u></u>
Title: Environmental Scientist	Approval Date:	Expiration D	ate:
	······································		
E-mail Address: amy@bbcinternational.com	Conditions of Approval:		Attached
Date: 12/21/06 Phone: (505) 207 6299			
Pate. 12/21/00 Filone. (303) 397-0388			

* Attach Additional Sheets If Necessary

APPENDIX VIII

Permeability Report

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

December, 2006

.



LABORATORY TEST REPORT **PETTIGREW and ASSOCIATES, P.A.** 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.

То:	Amerada Hess Corporation	Material:	Native Soils
	Seminole, TX 79360	Type of Test:	Measurement of Hydraulic Conductivity of Saturated Porous
Project:	Battery 22		Permeameter ASTM: D 2434
	Project No. 2006.1174		TEST CONDUCTED BY A SUBCONTRACTED COMPANY
Date:	December 20, 2006	Sample Location:	Cooper Pit
Sample Prep:	Remolded to 95% Max Dry Density an	d Optimum Moisture	
Target:	Max Dry Density D698A 93.8 pcf @ 26	5.5 Optimum Moisture	
Average	e Permeability		9.85E-07 cm/sec
Initial Le	ength of Specimen		7.15 cm
Initial Di	iameter of Specimen		7.15 cm
Initial W	ater Content		21.6%
Initial Dr	ry Unit Weight		92.7 pcf
Initial Vo	blume		17.52 cu.in
Permea	nt Liquid		Bottled Water
Magnitu	de of Total Back Pressure		63.9 psi
Effective	e Consolidation Stress		5 psi
Range o	of Hydraulic Gradient Used		23.3 to 12.2
Final Le	ngth of Specimen		7.16 cm
Final Dia	ameter of Specimen		7.26 cm
Final Wa	ater Content		28.9%
Final Dr	v Unit Weight		89.8 pcf
Final Vo	lume		18.09 cu.in
Degree	of Saturation (Before and After Test)		77% and 95%
Specific	Gravity Used In Calculations of Saturation		2.551
Date Sampled:	12/4/06	۲. PE	TTIGREW & ASSOCIATES
Lab No.:	06 12058		
		BY:	
Copies To:	Amerada Hess		
	·····	BY:	P.E.
		• • • • • • • • • • • • • • • • • • •	

APPENDIX IX

Location of Water Wells in 1 Mile Radius

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

December, 2006



APPENDIX VIII

Permeability Report

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

December, 2006





Location of Water Wells in 1 Mile Radius

Texaco State "G" Lact Unit Battery #22 Monument, New Mexico

Prepared for: Hess Corporation Seminole, Texas

December, 2006



	Township: 19	S Range: 37E	Sections: 17	7,,18,,19,	,20,,29,,30		
]	NAD27 X:	Y:	Zone:		Search Radius	:	
County:	esse I	Basin:	* **	Num	ber:	Suffix:	
Owner Nan	ne: (First)	(Last)		0	Non-Domestic	⊖ Domestic	@ A
POD) / Surface Data R	eport	vg Depth to Wate	er Report	Wate	er Column Repor	t activities)
		Clear Form	WATERS N	/lenu	Help		

WATER COLUMN REPORT 11/27/2006

	(quarter:	s are	: 1=ľ	W	2=	NE	3=SW 4=S	E)						
	(quarter:	s are	big	gge	st	to	smalles	t)		Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	đ	a (đ	Zone	x	Y	Well	Water	Column		
L 06933 (E)	195	37E	17	4	2	3				100	65	35		
L 02033	19S	37E	18	1	1	1				134	35	99		
10271 EXPL	19S	37E	18	1	1	1				137	70	67		
04313 APPRO	19S	37E	19	1	1					116	52	64		
L 04313	195	37E	19	1	1					116	52	64		
<u>L 10277</u>	195	37E	19	4	2	2				70	40	30		
L 03949 APPRO	19S	37E	29							36	18	18		
L 03922 APPRO	195	37E	29							42	22	20		
L 03949	19S	37E	29							36	18	18		
L 03956 APPRO	19S	37E	29							40	20	20		
L 03922	19S	37E	29							42	22	20		
<u>ь 03956</u>	19S	37E	29							40	20	20		
L 02596 APPRO	195	37E	29	3	2					50	20	30		
L 02596	19S	37E	29	3	2					50	20	30		
L 04799 REPAR	19S	37E	29	4	4					150				
L 04799	19S	37E	29	4	4					150				
L 05500	19S	37E	29	4	4	2				55				
L 03954 APPRO	19S	37E	30	4	4					35	20	15		
<u>ь 03995</u>	19S	37E	30	4	4					35	20	15		
L 03954	19S	37E	30	4	4					35	20	15		
L 03906 APPRO	19S	37E	30	4	4					35	20	15		
L 03905 APPRO	19S	37E	30	4	4					35	20	15		
L 03995 APPRO	19S	37E	30	4	4					35	20	15		
L 03905	19S	37E	30	4	4					35	20	15		
L 03906	19S	37E	30	4	4					35	20	15		
L 05995	19S	37E	30	4	4	4				40	23	17		

Record Count: 26



New Mexico Office of the State Engineer POD Reports and Downloads										
	Township	: 19S	Range: 36	E Sect	ions: 13,	,24,,25				
]	NAD27 X:		Y:	Zor	ne:	S	earch Ra	dius:		
County:		Bas	in:			Numbe	er:	Suffi	x:	
Owner Nan	ne: (First)		(La	ast)		ONG	on-Dome	stic OD	omestic	All
) / Surface Da	ta Repo	nt Andrewski (Machater	Avg Depth	to Water	Report	anilia (-vitubata	Water Colu	mn Report	Kala Salaka
		(Clear Form) [iWA	TERS Me	nu H	lelp			
			WATER	COLUMN	REPORT	11/27/20	06			
	(quarter	s are	1=NW 2=NE	3=SW 4=S	E)					
	(quarter	s are	biggest to	smalles	t)		Depth	Depth	Water	(in feet)
POD Number	Tws	Rng S	ec q q q	Zone	x	Y	Well	Water	Column	
L 04772 EXPL	19S	36E 2	24				130	70	60	
L 11029	195	36E 2	24 4 2				75	59	16	

cord Count: 2

Resources

National Water Information System: Web Interface

Data Category: Ground Water Way **Geographic Area: New Mexico**

GO GO

Ground-water levels for New Mexico

Search Results -- 1 sites found

Search Criteria

Agency code = usgs

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USGS 323847103174701 19S.37E.19.113211

Lea County, New Mexico

Latitude 32°38'47", Longitude 103°17'47" NAD27 Land-surface elevation 3,703.00 feet above sea level NGVD29

The depth of the well is 116 feet below land surface. This well is completed in the OGALLALA FORMATION (1210GLL) local aquifer.

Date	Time	Water level, feet below land surface	M Status
1961-02-23		54.95	
1966-02-11		56.75	
1971-01-15		57.58	-

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

Date	Time	Water level, feet below land surface	⊠ Status
1976-02-04		57.87	
1981-01-16		56.77	
1986-01-08		57.34	
1991-02-22		55.58	
1996-03-06		57.31	

Questions about data? Feedback on this web site

Top **Explanation of terms**

Ground water for New Mexico: Water Levels http://waterdata.usgs.gov/nm/nwis/gwlevels? Retrieved on 2006-11-27 16:10:56 EST

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