

3R-405

**BP AMERICA PRODUCTION CO.**

**REMEDIATION AND MONITORING REPORT**

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**CHAVEZ GC A #1  
(G) SEC. 3 - T29N - R9W, NMPM  
SAN JUAN COUNTY, NEW MEXICO**

**PREPARED FOR:  
NEW MEXICO OIL CONSERVATION DIVISION  
1220 ST. FRANCIS DRIVE  
SANTA FE, NEW MEXICO 87504**

**PREPARED BY:  
BLAGG ENGINEERING, INC.**

**Consulting Petroleum / Reclamation Services  
P.O. Box 87  
Bloomfield, New Mexico 87413**

**FEBRUARY 2010**

# BP AMERICA PRODUCTION COMPANY

## REMEDIATION AND MONITORING REPORT

CHAVEZ GC A # 1

SW 1/4 NE 1/4, Sec. 3, T29N, R9W

Soil / Groundwater Remediation Date:

2/22/07 – 4/15/07

Monitor Well Installation Date:

8/24/07 (MW #5, #6, #7)

Monitor Well Sampling Dates:

10/27/06, 1/22/07, 5/22/07, 6/14/07, 8/9/07,  
9/19/07, 11/20/07, 4/3/08, 6/10/08

### Remediation Activities:

Initial groundwater impacts at this site were discovered in February 2006 following work on site equipment modifications. The first phase of the subsurface reclamation effort was completed by August 2006 with the installation of four (4) groundwater monitoring wells (*Figure 1 & 1A*) following the removal of soil impacted media via excavation. Initial water test results from the monitor wells indicated impacts were present, but at levels below or slightly above New Mexico Water Quality Control Commission (NMWQCC) standards for benzene, toluene, ethylbenzene, and total xylenes (BTEX). This data was reported and submitted to the New Mexico Oil Conservation Division (NMOCD) in August 2006. Quarterly monitoring of these wells was conducted through August 2007.

The aforementioned report recommended additional removal of soil impacts in the area immediately west of the well head as well as supplemental groundwater monitoring points positioned both within and down-gradient of the excavation. This second phase was initiated in April 2007 via excavation and completed in August 2007 with the installation of three (3) monitor wells (MW #5, #6, #7). These wells were then initially sampled and tested in August 2007 (*Figure 1B*). Sampling and testing of subsurface soils from the excavation perimeter was completed and bore log/monitor well completion data recorded. The laboratory reports and well data are included within this report. Subsequent quarterly sampling for these wells was conducted until June 2008.

### Groundwater Monitor Well Sampling Procedures:

Each monitor well was developed by hand-bailing, using new disposable bailers after installation. Prior to sample collections, each monitor well was purged approximately three (3) well bore volumes with new disposable bailers. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing for BTEX was conducted by utilizing US EPA Method 8021B or 8260B.

Fluids generated during monitor well development and purging was managed by discarding into the separator below-grade tank (BGT) located on the well site. The BGT contents are then disposed through approved NMOCD operational procedures for removal of produced fluids.

### Groundwater Quality & Flow Direction Information:

Sampling of the groundwater monitor wells has been ongoing since August 2006. A summary of laboratory analytical results is included within the table on the following page and field/laboratory reports are included. Quarterly monitoring of MW #5, MW #6, & MW #7 for BTEX was conducted between August 2007 and June 2008. All BTEX constituents were below NMWQCC standards or non-detectable at the stated reporting limits.

A survey of water wells within 1 mile radius of the well site was researched at the New Mexico State Engineers web site and is included within this report. Two (2) water wells closest to the source area were identified as up gradient (Chavez water well) and down gradient (Lobato water well) [see enclosed Topographic Map for specifics]. These wells were sampled, with well owner authorization, and tested for impacts per US EPA Method 8260B or 8021B. All constituents revealed non-detectable levels at the stated reporting limits. The laboratory analytical results, chain-of-custody records, and quality assurance/quality control documentation are included within this report.

Groundwater contour maps of relative water table elevations have consistently been measured to flow toward the northwest with the exception of the May 2007 sampling event revealing a due west directionality (*Figure 2 through Figure 9*).

#### **Summary and/or Recommendations:**

Hydrocarbon impacted soil and groundwater at the site appear to have been remediated via excavation of impacted soils. All site wells tested BTEX at non-detectable levels or below NMWQCC standards for groundwater for at least four (4) consecutive sampling events, except MW #1 (up gradient and background data purpose only).

Enclosed within this report is a letter that was sent to NMOCD, dated March 2, 2007. This letter was in response to NMOCD's correspondence letter, dated January 24, 2007 necessitating revision of the site workplan with numerous requirements of detail conditions. Within the response letter, a thorough explanation was given to address the workplan revision requirement as well as some of the stated conditions previously achieved and supplied within the initial "Remediation and Monitoring Report", dated August 31, 2006. The letter also stipulated that "*other proposed workplan revisions, such as inclusion of geologic cross sections, discussion of surface-water hydrology, stream flow characteristics, etc., maps indicating the location of pipelines and other pertinent features, and isopleth maps*" could also be addressed within future monitoring reports. In retrospect of the substantial reclamation effort and limited data points, it appears that the abovementioned conditions cannot or are not achievable, applicable, or pertinent for the protection of public health, welfare and the environment.

Based upon the previously submitted and enclosed documentation, permanent site closure is recommended. Following closure approval by the NMOCD, site monitor wells will be abandoned by eliminating the monitor well tops and protectors, then grouting the remaining subsurface casing and screen interval with a 5% bentonite concrete slurry.

#### **Limitations and Closure:**

The scope of services has been limited to site sampling and reporting. Work has been performed in accordance with generally accepted practices in environmental engineering and hydrogeology.

This report has been prepared for the exclusive use of BP America Production Company as it pertains to the Chavez GC A #1 well site located in San Juan County, New Mexico.

Blagg Engineering, Inc. certifies that it is familiar with the investigative work at the site, site conditions and information as reported in this document.

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903

SENT VIA USPS CERTIFIED #7006 0810 0003 7019 0358

March 2, 2007

Mr. Glenn von Gonten,  
Senior Hydrologist  
New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: BP America Production Company  
Remediation Plans for Groundwater Impact Sites  
San Juan Basin, New Mexico

Dear Mr. von Gonten:

In regards to your correspondence dated January 24, 2007, concerning remediation plans for the BP America Production Company operated wells; Jaquez GC C1, Chavez GC A1 and the Mudge LS 9A, BP has retained Blagg Engineering, Inc. (BEI) to review your request for revised plans.

As outlined in your correspondence, a separate abatement plan for each impact was submitted to the New Mexico Oil Conservation Division (NMOCD) on June 2, 2006. These abatement plans were developed following the BP Groundwater Management Plan submitted to the NMOCD dated November 21, 1995, with revisions dated October 18, 1996 and May 11, 1998. It is BP's understanding that this Groundwater Management Plan and amendments, as approved by the NMOCD with correspondence dated November 29, 1995, February 7, 1997 and May 28, 1998, is sufficient.

Pursuant to the three (3) separate site specific abatement plans, there has been ongoing and substantial investigation, remedial action and reporting. This work has been documented in the following reports submitted to the NMOCD (U.S. Postal Service Certified, with copies sent to the Aztec District Office) with cover letters dated September 20, 2006:

- Remediation and Monitoring Report - Chavez GC A1 - (G) Sec. 3 T29N R9W, dated 8/31/06
- Remediation and Monitoring Report - Jaquez GC C1 - (O) Sec. 6 T29N R9W, dated 8/24/06
- Remediation and Monitoring Report - Mudge LS 9A - (O) Sec. 3 T31N R11W, dated 8/29/06

These reports provide detailed information concerning the nature of the environmental impacts, document remedial actions (i.e., excavation of impacted soils), discuss subsurface geologic characteristics, provide monitor well boring logs, well completion diagrams and site diagrams, and

include laboratory test results of soil and groundwater sampling. BP and BEI believe that the documentation provided in these reports is significant and that NMOCD's request to revise the remediation workplans should consider work completed to date.

Prior to developing new workplans for each site, BP would appreciate the NMOCD's clarification concerning specific issues for each site as outlined below:

Jaquez GC C1:

A release of less than 5 barrels of liquid from a separator was discovered at the site on January 10, 2006. The volume lost was below regulatory reporting requirements. At the time of discovery there was no impact to surface waters, however, due to the presence of very shallow groundwater at the site (at the time believed to be 2' - 3' below grade) there was concern for potential impacts to groundwater. BP was pro-active and completed excavation of any potentially impacted soils by January 13, 2006. As outlined in the June 2, 2006 abatement plan all impacted soils were removed from the site with no apparent groundwater impacts. Subsequent installation and monitoring of site groundwater monitor wells, as outlined in the September 20, 2006 "Remediation and Monitoring Report", detected no groundwater or surface water impacts. Therefore, BP requests reconsideration by the NMOCD for further development or revisions to the existing workplan.

Mudge LS 9A:

This well was originally completed in 1978 when discharges of produced fluids to unlined pits were a NMOCD authorized and accepted industry practice. Environmental impacts resulting from historical releases to an unlined production pit were discovered on February 20, 2006 during closure of the pit. The impacts at the pit were the result of historical discharges and not from a recent reportable leak, spill or other fluid loss. BP's closure of the pit was pursuant to a general pit closure plan submitted to NMOCD, pursuant to NMAC 19.15.2.50(F) with cover letter dated November 17, 2004.

Actions to investigate and remedy environmental impacts at the site have been substantial, as outlined in the original Abatement Plan dated June 2, 2006 and further documented in the "Remediation and Monitoring Report" dated August 29, 2006. The remediation report includes information concerning site geology, hydrology, the extent of impacts and suggests further actions to complete site investigation and monitoring. Since site soil contamination could be accessed and removed via excavation (including removal of approximately 7,200± cubic yards of material) determination of site hydrologic parameters such as hydraulic conductivity, transmissivity and storativity will not yield beneficial information necessary for development of future remedial actions. The source area soil impacts contributing to groundwater impacts are no longer present at the site. The site is located away from a riparian area and there are no surface waters, streams or stream sediments impacted.

The "Remediation and Monitoring Report" submitted to NMOCD includes the majority of information as requested in your proposed workplan revision, such as a description of all activities to date, a monitoring program, sampling plan, well logs, water table contour maps, summary lab data

tables, lab reports with QA/QC, waste disposition and recommendations for further action. Not included in the report was a survey of water wells within a 1 mile and this can be included in a future monitoring report. Other proposed workplan revisions, such as inclusion of geologic cross sections, maps indicating the location of pipelines and other pertinent features and isopleth maps can also be addressed by inclusion in future monitoring reports.

The original workplan proposed quarterly monitoring and annual reporting. Reporting can be provided on a quarterly basis and the next quarterly report can provide water well information and additional site maps as discussed above. Therefore, we believe this can be addressed administratively herein and generation of a new workplan is not necessary.

Chavez GC A1:

This gas well was originally completed in 1951 during an era when discharges of produced fluids to unlined pits, even in what are now environmentally sensitive areas, were a NMOCD authorized and accepted industry practice. The impacts discovered on February 13, 2006 during site equipment modifications were the result of historical discharges to various unlined pits and not from a reportable leak, spill or other fluid loss. BP enlisted the assistance of the Fee surface owner, who has extensive historical knowledge of the site, to identify the approximate location of likely various surface discharge areas that may have been present in prior years. This helped in planning site remediation via excavation. Site remediation was pursuant to a general pit closure plan submitted to NMOCD, pursuant to NMAC 19.15.2.50(F) with cover letter dated November 17, 2004.

Similar to the Jaquez GC C1 and Mudge LS 9A sites previously discussed, actions to investigate and remedy environmental impacts at the site have been substantial as outlined in the original Abatement Plan dated June 2, 2006 and further documented in the "Remediation and Monitoring Report" dated August 31, 2006. The remediation report includes information concerning site geology and hydrology and provides recommendations to complete site reclamation. Since site contamination can be accessed and removed via excavation (removal of approximately 14,000± cubic yards of soil to date) determination of additional hydrologic parameters such as hydraulic conductivity, transmissivity and storativity, in our opinion, will not yield beneficial information necessary to complete removal of impacted media. As discussed in the "Remediation and Monitoring Report", most source area soil impacts contributing to groundwater impacts have been removed and additional excavation to remove remaining soil impacts are planned.

The "Remediation and Monitoring Report" submitted to NMOCD includes the majority of information as requested in your proposed workplan revision, such as a description of all activities to date, monitoring program, sampling plan, well logs, water table contour maps, summary lab data tables, lab reports with QA/QC, waste disposition and recommendations for further action. Not included in the report was a survey of water wells within 1 mile and this can be included in a future monitoring report. Other proposed workplan revisions, such as inclusion of geologic cross sections, discussion of surface-water hydrology, stream flow characteristics, etc., maps indicating the location of pipelines and other pertinent features, and isopleth maps can also be addressed by inclusion in future monitoring reports.

As with the previously discussed Mudge LS 9A site, the original workplan proposed quarterly monitoring and annual reporting. Reporting can be provided on a quarterly basis and the next quarterly report can provide water well information, additional site maps and further discussion of hydrology and stream flow characteristics, etc., as discussed above. Therefore, BP believes this can be addressed administratively herein and do not believe generation of a new workplan is necessary.

### Summary

We appreciate the opportunity to respond to NMOCD's concerns with respect to investigation and remediation of environmental impacts at the Jaquez GC C1, Mudge LS 9A and Chavez GC A1 well sites. We share those concerns. BP has a vested interest in bringing the sites to complete environmental compliance using the best available technologies. Excavation and removal of impacted media is a very aggressive approach and from our experience yields excellent success in environmental restoration. This method was used at all three sites. Based on soil and water quality testing information previously provided to the NMOCD in site Remediation and Monitoring reports, remedial efforts to date appear to have been highly effective.

We invite the opportunity to discuss this with you and if you have any questions or comments please contact either myself at (505)632-1199 or Mr. Larry Schlotterback of BP at (505)326-9425.

Respectfully submitted:  
*Blagg Engineering, Inc.*

Jeffrey C. Blagg, P.E.  
President

cc: Charlie Perrin - NMOCD Aztec  
Larry Schlotterback - BP San Juan Op. Center

### Attachments:

BP Groundwater Management Plan submitted to the NMOCD dated November 21, 1995 and Revisions dated October 18, 1996 and May 11, 1998  
Revised Pit Closure Plan submitted to the NMOCD dated November 17, 2004  
Correspondence dated November 29, 1995 and May 28, 1998

**BP AMERICA PRODUCTION CO. GROUNDWATER LAB RESULTS**

SUBMITTED BY BLAGG ENGINEERING, INC.

**Chavez GC A # 1**

**UNIT G, SEC. 3, T29N, R9W**

REVISED DATE: June 30, 2008

FILENAME: ( Cha-2Q08.WK4 ) NJV

**BTEX EPA METHOD 8021B ( ppb )**

| SAMPLE DATE                  | WELL NAME or No. | D.T.W. (ft) | T.D. (ft) | TDS (mg/L) | COND. umhos | pH   | PRODUCT (ft) | Benzene | Toluene | Ethyl Benzene | Total Xylene |
|------------------------------|------------------|-------------|-----------|------------|-------------|------|--------------|---------|---------|---------------|--------------|
| 12-Aug-06                    | MW #1            | 13.86       | 19.50     | 1,670      | 2,100       | 7.74 |              | ND      | ND      | ND            | ND           |
| 12-Aug-06                    | MW #2            | 11.45       | 18.00     | 2,070      | 2,700       | 7.60 |              | ND      | 50      | 220           | 88           |
| 27-Oct-06                    |                  | 12.04       |           |            | 3,500       | 7.53 |              | 5.6     | ND      | 30            | 82           |
| 22-Jan-07                    |                  | 11.44       |           |            | 5,000       | 7.55 |              | 1.8     | ND      | 3.6           | 4.8          |
| 22-May-07                    |                  | 11.40       |           |            | 3,200       | 7.58 |              | 1.7     | ND      | ND            | 12           |
| 12-Aug-06                    | MW #3            | 10.90       | 19.00     | 760        | 1,200       | 7.05 |              | 22      | ND      | 39            | 420          |
| 27-Oct-06                    |                  | 11.49       |           |            | 1,400       | 7.00 |              | 1.1     | ND      | ND            | 14           |
| 22-Jan-07                    |                  | 10.83       |           |            | 1,300       | 7.35 |              | ND      | ND      | ND            | ND           |
| 22-May-07                    |                  | 10.95       |           |            | 1,000       | 7.55 |              | ND      | ND      | ND            | ND           |
| 09-Aug-07                    |                  | 11.66       |           |            | 1,500       | 7.27 |              | ND      | ND      | ND            | ND           |
| 12-Aug-06                    | MW #4            | 9.70        | 16.00     | 528        | 900         | 7.16 |              | ND      | ND      | ND            | 5.3          |
| 27-Oct-06                    |                  | 10.70       |           |            | 800         | 7.22 |              | ND      | ND      | ND            | ND           |
| 22-Jan-07                    |                  | 10.05       |           |            | 900         | 7.35 |              | ND      | ND      | ND            | 5.3          |
| 22-May-07                    |                  | 9.81        |           |            | 2,100       | 7.15 |              | ND      | ND      | ND            | ND           |
| 19-Sep-07                    | MW #5            | 9.49        | 17.35     | 1,300      | 1,200       | 7.00 |              | ND      | ND      | ND            | ND           |
| 20-Nov-07                    |                  | 11.01       |           |            | 1,200       | 7.28 |              | ND      | ND      | ND            | ND           |
| 03-Apr-08                    |                  | 11.04       |           |            | 1,200       | 7.12 |              | ND      | ND      | ND            | ND           |
| 10-Jun-08                    |                  | 5.64        |           |            | 2,000       | 7.40 |              | ND      | ND      | ND            | ND           |
| 19-Sep-07                    | MW #6            | 10.31       | 17.50     | 1,000      | 1,200       | 6.91 |              | ND      | ND      | ND            | ND           |
| 20-Nov-07                    |                  | 11.84       |           |            | 1,300       | 7.06 |              | ND      | ND      | ND            | ND           |
| 03-Apr-08                    |                  | 11.69       |           |            | 1,500       | 6.85 |              | ND      | ND      | ND            | ND           |
| 10-Jun-08                    |                  | 7.55        |           |            | 1,000       | 7.08 |              | ND      | ND      | ND            | ND           |
| 19-Sep-07                    | MW #7            | 9.31        | 17.37     | 6,100      | 4,100       | 6.92 |              | ND      | ND      | 6.3           | 130          |
| 20-Nov-07                    |                  | 10.34       |           |            | 4,000       | 7.19 |              | ND      | ND      | 9.3           | 74           |
| 03-Apr-08                    |                  | 10.29       |           |            | 3,800       | 6.99 |              | ND      | ND      | 3.5           | 28.4         |
| 10-Jun-08                    |                  | 7.69        |           |            | 3,500       | 7.26 |              | ND      | ND      | 1.9           | 10.6         |
| "                            | (dup.)           | "           |           |            | "           | "    |              | ND      | ND      | 2.1           | 10.9         |
| NMWQCC GROUNDWATER STANDARDS |                  |             |           |            |             |      |              | 10      | 750.    | 750           | 620          |

NOTES : 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS .

2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED .

3) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS ( less than regulatory standards of at least a magnitude of 10 ).

**GENERAL WATER QUALITY**  
**BP AMERICA PRODUCTION COMPANY**  
**CHAVEZ GC A #1**

Sample Date : August 7, 2006

| PARAMETERS                                 | MW # 1 | MW # 2 | MW # 3 | MW # 4 | Units      |
|--|--------|--------|--------|--------|------------|
| LAB pH                                     | 7.78   | 7.78   | 7.19   | 7.29   | s. u.      |
| LAB CONDUCTIVITY @ 25 C                    | 2,340  | 3,020  | 1,140  | 836    | umhos / cm |
| TOTAL DISSOLVED SOLIDS @ 180 C             | 1,670  | 2,070  | 760    | 528    | mg / L     |
| TOTAL DISSOLVED SOLIDS (Calc)              | 1,680  | 1,950  | 750    | 530    | mg / L     |
| SODIUM ABSORPTION RATIO                    | 16.3   | 10.4   | 3.8    | 1.3    | ratio      |
| TOTAL ALKALINITY AS CaCO <sub>3</sub>      | 520    | 890    | 416    | 420    | mg / L     |
| TOTAL HARDNESS AS CaCO <sub>3</sub>        | 172    | 432    | 285    | 332    | mg / L     |
| BICARBONATE as HCO <sub>3</sub>            | 520    | 890    | 416    | 420    | mg / L     |
| CARBONATE AS CO <sub>3</sub> <sup>2-</sup> | < 0.1  | < 0.1  | < 0.1  | < 0.1  | mg / L     |
| HYDROXIDE AS OH                            | < 0.1  | < 0.1  | < 0.1  | < 0.1  | mg / L     |
| NITRATE NITROGEN                           | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg / L     |
| NITRITE NITROGEN                           | < 0.01 | < 0.01 | < 0.01 | < 0.01 | mg / L     |
| CHLORIDE                                   | 9.60   | 40.1   | 16.4   | 18.6   | mg / L     |
| FLUORIDE                                   | 0.78   | 3.44   | 0.73   | 0.46   | mg / L     |
| PHOSPHATE                                  | 0.72   | < 0.1  | < 0.1  | < 0.1  | mg / L     |
| SULFATE                                    | 780    | 692    | 230    | 75.0   | mg / L     |
| IRON                                       | 0.028  | < 0.01 | 0.7    | 0.245  | mg / L     |
| CALCIUM                                    | 68.0   | 168    | 83     | 115    | mg / L     |
| MAGNESIUM                                  | 0.48   | 2.81   | 18.5   | 10.70  | mg / L     |
| POTASSIUM                                  | 12.8   | 0.68   | 2.10   | 3.94   | mg / L     |
| SODIUM                                     | 490    | 498    | 146    | 52.3   | mg / L     |
| CATION / ANION DIFFERENCE                  | 0.09   | 0.04   | 0.24   | 0.01   |            |

**GENERAL WATER QUALITY  
BP AMERICA PRODUCTION COMPANY**

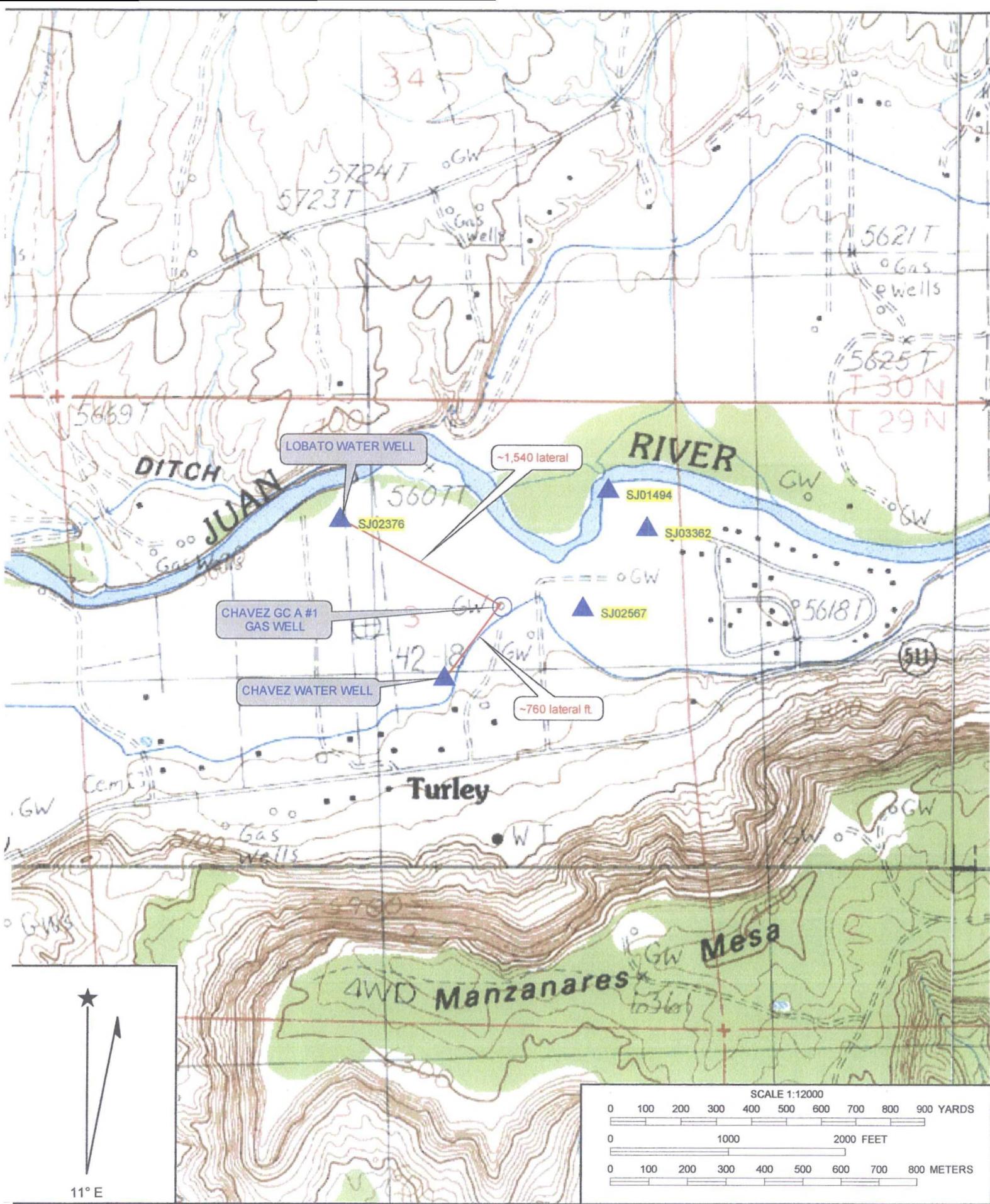
**CHAVEZ GC A #1**

**Sample Date : September 19, 2007**

| PARAMETERS             | MW # 5 | MW # 6 | MW # 7 | NMWQCC STANDARDS | Units  |
|------------------------|--------|--------|--------|------------------|--------|
| LAB pH                 | 7.23   | 7.02   | 7.11   | 6 - 9            | s. u.  |
| TOTAL DISSOLVED SOLIDS | 1,300  | 1,000  | 6,100  | 1,000            | mg / L |
| NITROGEN, NITRITE      | ND     | ND     | ND     | 10.0             | mg / L |
| NITROGEN, NITRATE      | ND     | ND     | 12     | 10.0             | mg / L |
| CHLORIDE               | 19     | 21     | 410    | 250              | mg / L |
| FLUORIDE               | 0.63   | 0.44   | 2.1    | 1.6              | mg / L |
| SULFATE                | 410    | 270    | 3,400  | 600              | mg / L |
| IRON                   | 0.38   | ND     | ND     | 1.0              | mg / L |

**Notes :**

- 1 ) NMWQCC - New Mexico Water Quality Control Commission .
- 2 ) s. u. - standard unit .
- 3 ) mg / L - milligrams per liter or otherwise known as parts per million ( ppm ) .
- 4 ) New Mexico Oil Conservation Division ( NMOCD ) recognizes the NMWQCC or background levels ( statistical equivalence ) as the standards for each site specific scenario .



Name: TURLEY  
Date: 1/22/2010

Chavez GC A #1 gas well & nearest water well locations  
Unit G, Sec. 3, T29N, R9W  
36.75609 / 107.76367

## Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-07

**CLIENT:** Blagg Engineering  
**Lab Order:** 0703105  
**Project:** Chavez GC A #1  
**Lab ID:** 0703105-01

**Client Sample ID:** Lobato Well  
**Collection Date:** 3/7/2007 10:10:00 AM  
**Date Received:** 3/9/2007  
**Matrix:** AQUEOUS

| Analyses                           | Result | PQL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|-----|------|-------|----|---------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |     |      |       |    |               |
| Benzene                            | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Toluene                            | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Ethylbenzene                       | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Methyl tert-butyl ether (MTBE)     | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2,4-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,3,5-Trimethylbenzene             | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2-Dichloroethane (EDC)           | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2-Dibromoethane (EDB)            | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Naphthalene                        | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| 1-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 3/8/2007      |
| 2-Methylnaphthalene                | ND     | 4.0 |      | µg/L  | 1  | 3/8/2007      |
| Acetone                            | ND     | 10  |      | µg/L  | 1  | 3/8/2007      |
| Bromobenzene                       | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Bromochloromethane                 | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Bromodichloromethane               | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Bromoform                          | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Bromomethane                       | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| 2-Butanone                         | ND     | 10  |      | µg/L  | 1  | 3/8/2007      |
| Carbon disulfide                   | ND     | 10  |      | µg/L  | 1  | 3/8/2007      |
| Carbon Tetrachloride               | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| Chlorobenzene                      | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Chloroethane                       | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| Chloroform                         | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Chloromethane                      | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 2-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 4-Chlorotoluene                    | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| cis-1,2-DCE                        | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| cis-1,3-Dichloropropene            | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2-Dibromo-3-chloropropane        | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| Dibromochloromethane               | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Dibromomethane                     | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,3-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,4-Dichlorobenzene                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| Dichlorodifluoromethane            | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,1-Dichloroethane                 | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,1-Dichloroethene                 | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,2-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,3-Dichloropropane                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |
| 2,2-Dichloropropane                | ND     | 2.0 |      | µg/L  | 1  | 3/8/2007      |
| 1,1-Dichloropropene                | ND     | 1.0 |      | µg/L  | 1  | 3/8/2007      |

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

## Hall Environmental Analysis Laboratory, Inc.

Date: 12-Mar-07

|            |                   |                   |                      |
|------------|-------------------|-------------------|----------------------|
| CLIENT:    | Blagg Engineering | Client Sample ID: | Lobato Well          |
| Lab Order: | 0703105           | Collection Date:  | 3/7/2007 10:10:00 AM |
| Project:   | Chavez GC A #1    | Date Received:    | 3/9/2007             |
| Lab ID:    | 0703105-01        | Matrix:           | AQUEOUS              |

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed | Analyst: LMM |
|------------------------------------|--------|----------|------|-------|----|---------------|--------------|
| <b>EPA METHOD 8260B: VOLATILES</b> |        |          |      |       |    |               |              |
| Hexachlorobutadiene                | ND     | 2.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 2-Hexanone                         | ND     | 10       |      | µg/L  | 1  | 3/8/2007      |              |
| Isopropylbenzene                   | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 4-Isopropyltoluene                 | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 4-Methyl-2-pentanone               | ND     | 10       |      | µg/L  | 1  | 3/8/2007      |              |
| Methylene Chloride                 | ND     | 3.0      |      | µg/L  | 1  | 3/8/2007      |              |
| n-Butylbenzene                     | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| n-Propylbenzene                    | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| sec-Butylbenzene                   | ND     | 2.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Styrene                            | ND     | 1.5      |      | µg/L  | 1  | 3/8/2007      |              |
| tert-Butylbenzene                  | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,1,1,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,1,2,2-Tetrachloroethane          | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Tetrachloroethene (PCE)            | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| trans-1,2-DCE                      | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| trans-1,3-Dichloropropene          | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,2,3-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,2,4-Trichlorobenzene             | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,1,1-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,1,2-Trichloroethane              | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Trichloroethene (TCE)              | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Trichlorofluoromethane             | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| 1,2,3-Trichloropropane             | ND     | 2.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Vinyl chloride                     | ND     | 1.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Xylenes, Total                     | ND     | 3.0      |      | µg/L  | 1  | 3/8/2007      |              |
| Sur: 1,2-Dichloroethane-d4         | 108    | 76.6-113 |      | %REC  | 1  | 3/8/2007      |              |
| Sur: 4-Bromofluorobenzene          | 108    | 77-117   |      | %REC  | 1  | 3/8/2007      |              |
| Sur: Dibromofluoromethane          | 102    | 72.3-121 |      | %REC  | 1  | 3/8/2007      |              |
| Sum: Toluene-d8                    | 101    | 73-113   |      | %REC  | 1  | 3/8/2007      |              |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

## Hall Environmental Analysis Laboratory, Inc.

Date: 11-Sep-07

CLIENT: Blagg Engineering  
 Lab Order: 0709050  
 Project: Chavez GC A #1  
 Lab ID: 0709050-01

Client Sample ID: Chavez Well  
 Collection Date: 9/5/2007 3:45:00 PM  
 Date Received: 9/6/2007  
 Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed       | Analyst: SMP |
|------------------------------------|--------|----------|------|-------|----|---------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                     |              |
| Methyl tert-butyl ether (MTBE)     | ND     | 2.5      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| 1,2,4-Trimethylbenzene             | ND     | 1.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| 1,3,5-Trimethylbenzene             | ND     | 1.0      |      | µg/L  | 1  | 9/8/2007 6:50:15 AM |              |
| Surr: 4-Bromofluorobenzene         | 86.0   | 70.2-105 |      | %REC  | 1  | 9/8/2007 6:50:15 AM |              |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

## **CHAIN-OF-CUSTODY RECORD**

Client: Black Engineering Inc.

Address: P.O. Box 87  
Brownfield NM 87413

Phone #: 505-632-1199

Fax 签名

**QA/QC Package:**  
Std  Level 4   
**Other:** \_\_\_\_\_

Project Name: CHAVEZ GC A #1

Project #:

**Project Manager:**

Jeff Baca

Sampler: Jeff Gross

**Sample Temperature:**

|                 |               |  |  |         |
|-----------------|---------------|--|--|---------|
| Date:<br>3/9/07 | Time:<br>1100 | Relinquished By: (Signature)<br><i>Jeff Bley</i> | Received By: (Signature) <i>Tom S.</i> 3/10/07<br>9:24 | Remarks |
| Date:           | Time:         | Relinquished By: (Signature)                     | Received By: (Signature)                               |         |

## **CHAIN-OF-CUSTODY RECORD**

Client: BLAGG ENGINEERING INC.

Address: P.O. Box 87  
BLOOMFIELD, NM 874[3]

Phone #: 505-632-1199

Fox 等

**QA/QC Package:**  
Std  Level 4   
**Other:** \_\_\_\_\_

Project Name: CHAVEZ GC A#1



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**  
4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

## **ANALYSIS REQUEST**

## QA/QC SUMMARY REPORT

**Client:** Blagg Engineering  
**Project:** Chavez GC A #1

Work Order: 0703105

| Analyte                        | Result | Units | PQL | %Rec | LowLimit         | HighLimit      | %RPD | RPDLimit | Qual     |
|--------------------------------|--------|-------|-----|------|------------------|----------------|------|----------|----------|
| <b>Method: SW8260B</b>         |        |       |     |      |                  |                |      |          |          |
| Sample ID: 5mL rb-b            |        | MBLK  |     |      | Batch ID: R22784 | Analysis Date: |      |          | 3/8/2007 |
| Benzene                        | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Toluene                        | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Ethylbenzene                   | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Methyl tert-butyl ether (MTBE) | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,2,4-Trimethylbenzene         | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,3,5-Trimethylbenzene         | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,2-Dichloroethane (EDC)       | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,2-Dibromoethane (EDB)        | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Naphthalene                    | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 1-Methylnaphthalene            | ND     | µg/L  | 4.0 |      |                  |                |      |          |          |
| 2-Methylnaphthalene            | ND     | µg/L  | 4.0 |      |                  |                |      |          |          |
| Acelone                        | ND     | µg/L  | 10  |      |                  |                |      |          |          |
| Bromobenzene                   | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Bromoform                      | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Bromochloromethane             | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Bromodichloromethane           | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Bromoform                      | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Bromomethane                   | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 2-Butanone                     | ND     | µg/L  | 10  |      |                  |                |      |          |          |
| Carbon disulfide               | ND     | µg/L  | 10  |      |                  |                |      |          |          |
| Carbon Tetrachloride           | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| Chlorobenzene                  | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Chloroethane                   | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| Chloroform                     | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Chloromethane                  | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 2-Chlorotoluene                | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 4-Chlorotoluene                | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| cis-1,2-DCE                    | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| cis-1,3-Dichloropropene        | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,2-Dibromo-3-chloropropane    | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| Dibromochloromethane           | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Dibromomethane                 | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 1,2-Dichlorobenzene            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,3-Dichlorobenzene            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,4-Dichlorobenzene            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Dichlorodifluoromethane        | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,1-Dichloroethane             | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 1,1-Dichloroethene             | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,2-Dichloropropane            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 1,3-Dichloropropane            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| 2,2-Dichloropropane            | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 1,1-Dichloropropene            | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |
| Hexachlorobutadiene            | ND     | µg/L  | 2.0 |      |                  |                |      |          |          |
| 2-Hexanone                     | ND     | µg/L  | 10  |      |                  |                |      |          |          |
| Isopropylbenzene               | ND     | µg/L  | 1.0 |      |                  |                |      |          |          |

## Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: Chavez GC A #1

Work Order: 0703105

| Analyte                   | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD             | RPDLimit       | Qual     |
|---------------------------|--------|-------|-----|------|----------|-----------|------------------|----------------|----------|
| <b>Method: SW8260B</b>    |        |       |     |      |          |           |                  |                |          |
| Sample ID: 5mL rb-b       |        | MBLK  |     |      |          |           | Batch ID: R22784 | Analysis Date: | 3/8/2007 |
| 4-Isopropyltoluene        | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 4-Methyl-2-pentanone      | ND     | µg/L  | 10  |      |          |           |                  |                |          |
| Methylene Chloride        | ND     | µg/L  | 3.0 |      |          |           |                  |                |          |
| n-Butylbenzene            | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| n-Propylbenzene           | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| sec-Butylbenzene          | ND     | µg/L  | 2.0 |      |          |           |                  |                |          |
| Styrene                   | ND     | µg/L  | 1.5 |      |          |           |                  |                |          |
| tert-Butylbenzene         | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,1,1,2-Tetrachloroethane | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,1,2,2-Tetrachloroethane | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| Tetrachloroethene (PCE)   | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| trans-1,2-DCE             | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| trans-1,3-Dichloropropene | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,2,3-Trichlorobenzene    | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,2,4-Trichlorobenzene    | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,1,1-Trichloroethane     | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,1,2-Trichloroethane     | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| Trichloroethene (TCE)     | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| Trichlorofluoromethane    | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| 1,2,3-Trichloropropane    | ND     | µg/L  | 2.0 |      |          |           |                  |                |          |
| Vinyl chloride            | ND     | µg/L  | 1.0 |      |          |           |                  |                |          |
| Xylenes, Total            | ND     | µg/L  | 3.0 |      |          |           |                  |                |          |
| Sample ID: 100ng lcs-b    |        | LCS   |     |      |          |           | Batch ID: R22784 | Analysis Date: | 3/8/2007 |
| Benzene                   | 18.51  | µg/L  | 1.0 | 92.5 | 72.5     | 122       |                  |                |          |
| Toluene                   | 19.26  | µg/L  | 1.0 | 96.3 | 73.3     | 112       |                  |                |          |
| Chlorobenzene             | 18.46  | µg/L  | 1.0 | 92.3 | 73.8     | 111       |                  |                |          |
| 1,1-Dichloroethene        | 20.90  | µg/L  | 1.0 | 105  | 79.7     | 122       |                  |                |          |
| Trichloroethene (TCE)     | 17.49  | µg/L  | 1.0 | 87.4 | 69.5     | 114       |                  |                |          |

## Qualifiers:

E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded.  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

3/9/2007

Work Order Number 0703105

Received by TLS

Checklist completed by

*Jamie S.*

Signature

*March 9, 07*

Date

Matrix

Carrier name Greyhound

|   |   |  |   |
|---|---|--|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              | Not Present <input type="checkbox"/>                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>                              | N/A <input checked="" type="checkbox"/>                                   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>                              |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/>                  | No <input type="checkbox"/>   |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>                              | N/A <input checked="" type="checkbox"/>                                   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>                              | N/A <input checked="" type="checkbox"/>                                   |
| Container/Temp Blank temperature?                       | 3°  | 4° C ± 2 Acceptable<br>If given sufficient time to cool. |   |

COMMENTS:

-----

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: Chavez GC A #1 Work Order: 0709050

| Analyte                           | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD   | RPDLimit | Qual |
|-----------------------------------|--------|-------|-----|------|----------|-----------|--------|----------|------|
| <b>Method: SW8021</b>             |        |       |     |      |          |           |        |          |      |
| <b>Sample ID: 0709050-01A MSD</b> |        |       |     |      |          |           |        |          |      |
| Methyl tert-butyl ether (MTBE)    | 7.608  | µg/L  | 2.5 | 91.7 | 51.2     | 138       | 0.0526 | 28       |      |
| Benzene                           | 5.398  | µg/L  | 1.0 | 96.4 | 85.9     | 113       | 1.04   | 27       |      |
| Toluene                           | 34.99  | µg/L  | 1.0 | 87.5 | 86.4     | 113       | 0.470  | 19       |      |
| Ethylbenzene                      | 7.184  | µg/L  | 1.0 | 90.9 | 83.5     | 118       | 0.223  | 10       |      |
| Xylenes, Total                    | 42.00  | µg/L  | 2.0 | 91.3 | 83.4     | 122       | 1.36   | 13       |      |
| 1,2,4-Trimethylbenzene            | 13.20  | µg/L  | 1.0 | 101  | 83.5     | 115       | 0.806  | 21       |      |
| 1,3,5-Trimethylbenzene            | 4.162  | µg/L  | 1.0 | 102  | 85.2     | 113       | 1.21   | 10       |      |
| <b>Sample ID: 5ML RB</b>          |        |       |     |      |          |           |        |          |      |
| Methyl tert-butyl ether (MTBE)    | ND     | µg/L  | 2.5 |      |          |           |        |          |      |
| Benzene                           | ND     | µg/L  | 1.0 |      |          |           |        |          |      |
| Toluene                           | ND     | µg/L  | 1.0 |      |          |           |        |          |      |
| Ethylbenzene                      | ND     | µg/L  | 1.0 |      |          |           |        |          |      |
| Xylenes, Total                    | ND     | µg/L  | 2.0 |      |          |           |        |          |      |
| 1,2,4-Trimethylbenzene            | ND     | µg/L  | 1.0 |      |          |           |        |          |      |
| 1,3,5-Trimethylbenzene            | ND     | µg/L  | 1.0 |      |          |           |        |          |      |
| <b>Sample ID: 100NG BTEX LCS</b>  |        |       |     |      |          |           |        |          |      |
| Methyl tert-butyl ether (MTBE)    | 19.30  | µg/L  | 2.5 | 96.5 | 51.2     | 138       |        |          |      |
| Benzene                           | 18.69  | µg/L  | 1.0 | 93.4 | 85.9     | 113       |        |          |      |
| Toluene                           | 18.19  | µg/L  | 1.0 | 91.0 | 86.4     | 113       |        |          |      |
| Ethylbenzene                      | 18.64  | µg/L  | 1.0 | 93.2 | 83.5     | 118       |        |          |      |
| Xylenes, Total                    | 55.36  | µg/L  | 2.0 | 92.3 | 83.4     | 122       |        |          |      |
| 1,2,4-Trimethylbenzene            | 17.95  | µg/L  | 1.0 | 89.8 | 83.5     | 115       |        |          |      |
| 1,3,5-Trimethylbenzene            | 17.73  | µg/L  | 1.0 | 88.6 | 85.2     | 113       |        |          |      |
| <b>Sample ID: 0709050-01A MS</b>  |        |       |     |      |          |           |        |          |      |
| Methyl tert-butyl ether (MTBE)    | 7.612  | µg/L  | 2.5 | 91.7 | 51.2     | 138       |        |          |      |
| Benzene                           | 5.342  | µg/L  | 1.0 | 95.4 | 85.9     | 113       |        |          |      |
| Toluene                           | 34.83  | µg/L  | 1.0 | 87.1 | 86.4     | 113       |        |          |      |
| Ethylbenzene                      | 7.168  | µg/L  | 1.0 | 90.7 | 83.5     | 118       |        |          |      |
| Xylenes, Total                    | 41.43  | µg/L  | 2.0 | 90.1 | 83.4     | 122       |        |          |      |
| 1,2,4-Trimethylbenzene            | 13.09  | µg/L  | 1.0 | 99.7 | 83.5     | 115       |        |          |      |
| 1,3,5-Trimethylbenzene            | 4.112  | µg/L  | 1.0 | 100  | 85.2     | 113       |        |          |      |

## Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

9/6/2007

Work Order Number 0709050

Received by ARS

Checklist completed by

*Janea Shomin* Sept 4.07  
Signature Date

Matrix

Carrier name Greyhound

|   |   |   |   |
|---|---|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>   |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Container/Temp Blank temperature?                       | 9°  | 4° C ± 2 Acceptable                     | If given sufficient time to cool.   |

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action



# New Mexico Office of the State Engineer

## Wells with Well Log Information

| POD Number    | Sub basin | Use | County | Source  | 6416 4 Sec | Tws Rng | (NAD83 UTM in meters) |        |          |          | (in feet)  |             |            |            |             |
|---------------|-----------|-----|--------|---------|------------|---------|-----------------------|--------|----------|----------|------------|-------------|------------|------------|-------------|
|               |           |     |        |         |            |         | q q                   | X      | Y        | Distance | Start Date | Finish Date | Log File   | Depth Well | Depth Water |
| SJ 02567      |           | DOM | SJ     | Shallow | 1 4 2      | 03      | 29N 09W               | 253488 | 4071372* | 199      | 07/26/1994 | 07/26/1994  | 06/30/2000 | 14         | 2           |
| SJ 01494      |           | DOM | SJ     | Shallow | 2 2        | 03      | 29N 09W               | 253571 | 4071681* | 410      | 10/22/1981 | 10/23/1981  | 11/02/1981 | 12         | 5           |
| SJ 03362      |           | DOM | SJ     | Shallow | 4 2 2      | 03      | 29N 09W               | 253670 | 4071580* | 428      | 11/28/2003 | 12/28/2003  | 12/31/2003 | 38         | 12          |
| SJ 03362 POD2 |           | DOM | SJ     | Shallow | 4 2 2      | 03      | 29N 09W               | 253670 | 4071580* | 428      | 08/08/2005 | 08/08/2005  | 08/10/2005 | 21         | 6           |
| SJ 02946      |           | DOM | SJ     | Shallow | 1 2 4      | 03      | 29N 09W               | 253516 | 4070978* | 464      | 08/20/1999 | 10/20/1999  | 10/12/2000 | 95         | 40          |
| SJ 02369 CLW  |           | MDW | SJ     | Shallow | 4 2 1      | 03      | 29N 09W               | 252874 | 4071624* | 480      | 04/20/1992 | 04/22/1992  | 11/05/1992 | 13         | 10          |
| SJ 02376      |           | MUL | SJ     | Shallow | 4 2 1      | 03      | 29N 09W               | 252874 | 4071624* | 480      | 04/20/1992 | 04/22/1992  | 11/05/1992 | 13         | 10          |
| SJ 03856 POD1 |           | DOL | SJ     | Shallow | 2 2 4      | 03      | 29N 09W               | 253586 | 4070930  | 540      | 12/16/2008 | 12/20/2008  | 12/24/2008 | 320        | 60          |
| SJ 03300      |           | DOM | SJ     | Shallow | 2 2 2      | 03      | 29N 09W               | 253670 | 4071780* | 550      | 11/25/2002 | 11/25/2002  | 12/02/2002 | 21         | 4           |
| SJ 01203      |           | DOM | SJ     | Shallow | 1 3 1      | 02      | 29N 09W               | 253878 | 4071351* | 589      | 06/21/1980 | 06/22/1980  | 06/24/1980 | 25         | 12          |
| SJ 01210      |           | DOM | SJ     | Shallow | 1 3 1      | 02      | 29N 09W               | 253878 | 4071351* | 589      | 07/08/1980 | 07/09/1980  | 07/17/1980 | 26         | 10          |
| SJ 01430      |           | DOM | SJ     | Shallow | 1 3 1      | 02      | 29N 09W               | 253878 | 4071351* | 589      | 05/28/1981 | 05/29/1981  | 06/08/1981 | 24         | 11          |
| SJ 01460      |           | DOM | SJ     | Shallow | 1 3 1      | 02      | 29N 09W               | 253878 | 4071351* | 589      | 08/21/1981 | 08/24/1981  | 09/08/1981 | 19         | 8           |
| SJ 02478      |           | DOM | SJ     | Shallow | 3 1 1      | 02      | 29N 09W               | 253865 | 4071558* | 601      | 07/13/1993 | 07/15/1993  | 08/02/1993 | 16         | 8           |
| SJ 02492      |           | DOM | SJ     | Shallow | 3 1 1      | 02      | 29N 09W               | 253865 | 4071558* | 601      | 09/16/1993 | 09/17/1993  | 08/21/1996 | 13         | 5           |
| SJ 02677      |           | DOM | SJ     | Shallow | 3 1 1      | 02      | 29N 09W               | 253865 | 4071558* | 601      | 05/01/1996 | 05/01/1996  | 09/12/1997 | 21         | 7           |
| SJ 03138      |           | DOM | SJ     | Shallow | 1 1 1      | 02      | 29N 09W               | 253865 | 4071758* | 687      | 04/02/2002 | 04/06/2002  | 04/15/2002 | 11         | 5           |
| SJ 01232      |           | DOM | SJ     | Shallow | 3 1        | 02      | 29N 09W               | 253979 | 4071252* | 702      | 07/30/1980 | 08/01/1980  | 08/08/1980 | 25         | 9           |
| SJ 03080      |           | DOM | SJ     | Shallow | 3 1        | 02      | 29N 09W               | 253979 | 4071252* | 702      | 11/25/2001 | 12/10/2001  | 12/18/2001 | 35         |             |
| SJ 03843 POD1 |           | DOL | SJ     | Shallow |            |         |                       | 253731 | 4071982  | 745      | 04/02/2009 | 04/04/2009  | 04/16/2009 | 22         | 6           |

\*UTM location was derived from PLSS - see Help

| POD Number    | (quarters are 1=NW 2=NE 3=SW 4=SE) |     |         |        |         |         |        |          |      |            | (NAD83 UTM in meters) |            |             |          | (in feet)  |             |  |  |
|---------------|------------------------------------|-----|---------|--------|---------|---------|--------|----------|------|------------|-----------------------|------------|-------------|----------|------------|-------------|--|--|
|               | Sub basin                          | Use | County  | Source | 6 4 1 6 | 4 Sec   | Tws    | Rng      | X    | Y          | Distance              | Start Date | Finish Date | Log File | Depth Well | Depth Water |  |  |
|               |                                    |     |         |        |         |         |        |          |      |            |                       |            |             |          |            |             |  |  |
| SJ 01392      | DOM                                | SJ  | Shallow | 2 3 1  | 02      | 29N 09W | 254078 | 4071351* | 789  | 05/22/1981 | 05/25/1981            | 05/27/1981 |             | 25       | 11         |             |  |  |
| SJ 01579      | DOM                                | SJ  | Shallow | 2 3 1  | 02      | 29N 09W | 254078 | 4071351* | 789  | 06/01/1982 | 06/03/1982            | 06/08/1982 |             | 25       | 12         |             |  |  |
| SJ 01867      | DOM                                | SJ  | Shallow | 2 3 1  | 02      | 29N 09W | 254078 | 4071351* | 789  | 07/23/1984 | 07/25/1984            | 08/02/1984 |             | 25       | 71         |             |  |  |
| SJ 03003      | DOM                                | SJ  | Shallow | 2 3 1  | 02      | 29N 09W | 254078 | 4071351* | 789  | 08/17/2000 | 08/20/2000            | 09/01/2000 |             | 19       | 6          |             |  |  |
| SJ 03253      | DOM                                | SJ  | Shallow | 2 3 1  | 02      | 29N 09W | 254078 | 4071351* | 789  | 04/09/2003 | 04/09/2003            | 04/16/2003 |             | 16       | 9          |             |  |  |
| SJ 01066      | DOM                                | SJ  | Shallow | 4 1 1  | 02      | 29N 09W | 254065 | 4071558* | 795  | 11/20/1979 | 11/27/1979            | 12/04/1979 |             | 25       | 10         |             |  |  |
| SJ 01067      | DOM                                | SJ  | Shallow | 4 1 1  | 02      | 29N 09W | 254065 | 4071558* | 795  | 11/27/1979 | 11/29/1979            | 12/03/1979 |             | 25       | 10         |             |  |  |
| SJ 01183      | DOM                                | SJ  | Shallow | 4 1 1  | 02      | 29N 09W | 254065 | 4071558* | 795  | 06/13/1980 | 06/16/1980            | 06/24/1980 |             | 24       | 11         |             |  |  |
| SJ 02096      | DOM                                | SJ  | Shallow | 4 1 1  | 02      | 29N 09W | 254065 | 4071558* | 795  | 10/24/1986 | 10/25/1986            | 11/10/1986 |             | 27       | 11         |             |  |  |
| SJ 03396      | DOM                                | SJ  | Shallow | 2 1 1  | 02      | 29N 09W | 254065 | 4071758* | 861  | 07/21/2003 | 07/21/2003            | 07/31/2003 |             | 10       | 4          |             |  |  |
| SJ 02103      | DOM                                | SJ  | Shallow | 3 1    | 03      | 29N 09W | 252397 | 4071340* | 893  | 12/20/1986 | 12/23/1986            | 04/13/1988 |             | 21       | 4          |             |  |  |
| SJ 01983      | DOM                                | SJ  | Shallow | 1      | 02      | 29N 09W | 254180 | 4071453* | 893  | 07/16/1985 | 07/16/1985            | 07/30/1985 |             | 25       | 3          |             |  |  |
| SJ 02346      | DOM                                | SJ  | Shallow | 1      | 02      | 29N 09W | 254180 | 4071453* | 893  | 09/15/1991 | 09/17/1991            | 03/20/1992 |             | 25       | 4          |             |  |  |
| SJ 02347      | DOM                                | SJ  | Shallow | 1      | 02      | 29N 09W | 254180 | 4071453* | 893  | 09/18/1991 | 09/21/1991            | 03/20/1992 |             | 25       | 4          |             |  |  |
| SJ 02600      | DOM                                | SJ  | Shallow | 3 4 1  | 02      | 29N 09W | 254292 | 4071149* | 1029 | 01/04/1995 | 01/04/1995            | 08/23/1996 |             | 18       | 8          |             |  |  |
| SJ 03687 POD1 | DOM                                | SJ  | Shallow | 3 4 1  | 02      | 29N 09W | 254292 | 4071149* | 1029 | 01/23/2006 | 01/24/2006            | 01/25/2006 |             | 18       | 10         |             |  |  |
| SJ 03200      | DOM                                | SJ  | Shallow | 1 1 3  | 03      | 29N 09W | 252316 | 4071045* | 1030 | 08/05/2002 | 08/12/2002            | 05/28/2003 |             | 28       | 13         |             |  |  |
| SJ 03632      | DOM                                | SJ  | Shallow | 2 2 1  | 02      | 29N 09W | 254472 | 4071753* | 1239 | 05/25/2005 | 05/25/2005            | 06/03/2005 |             | 27       | 7          |             |  |  |
| SJ 01874      | DOM                                | SJ  | Shallow |        | 02      | 29N 09W | 254652 | 4071064* | 1399 | 07/30/1984 | 07/31/1984            | 08/03/1984 |             | 28       | 8          |             |  |  |
| SJ 02092      | MUL                                | SJ  | Shallow | 4 4 4  | 33      | 30N 09W | 252048 | 4072066* | 1416 | 10/27/1986 | 10/28/1986            | 11/10/1986 |             | 32       | 15         |             |  |  |

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

**Record Count: 40**

**UTMNAD83 Radius Search (in meters):**

**Easting (X): 253289.19**

**Northing (Y): 4071383**

**Radius: 1609**

# FIGURE 1



A  
C  
C  
E  
S  
S

R  
O  
A  
D

To Hwy 511

SITE  
MAP

08/06

Direction to San Juan River

WELL  
HEAD  
⊕

MW #4  
⊕

main channel ~10 wide

Bridge

Irrigation ditch

flow direction

MW #3  
⊕

MW #2  
⊕

SEP.  
UNITS

TANK  
PIT

PROD.  
TANK

PROD.  
TANK

BERM

ENTRANCE  
GATE

MW #1  
⊕

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FT.

0 50 50 FT.

BP AMERICA PRODUCTION CO.  
CHAVEZ GC A #1  
SW/4 NE/4 SEC. 3, T29N, R9W  
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW INSTALLATION  
DRAWN BY: NJV  
FILENAME: CHAVEZ GC A 1-SM.SKF  
DRAFTED: 08-02-06 NJV

# FIGURE 1A

| Sample ID | Date     | Matrix Type | Depth (ft.) | OVM (ppm) | TPH (mg/Kg) |
|-----------|----------|-------------|-------------|-----------|-------------|
| W         | 02/15/06 | Soil        | 8           | ND        | ND          |
| A         | 02/24/06 | Soil        | 8           | ND        | 8.1         |
| B         | 04/26/06 | Soil        | 7           | 20        | ND          |
| C         | 04/26/06 | Soil        | 7           | 33        | 42          |
| D         | 04/26/06 | Soil        | 7           | 45        | ND          |
| E         | 04/26/06 | Soil        | 7           | 312       | 490         |
| F         | 05/10/06 | Soil        | 9           | 133       | 133         |
| G         | 05/17/06 | Soil        | 8           | ND        | ND          |
| H         | 05/17/06 | Soil        | 8           | ND        | ND          |
| I         | 05/19/06 | Soil        | 8           | ND        | ND          |
| J         | 05/26/06 | Soil        | 8           | ND        | ND          |
| TH1       | 04/13/06 | Soil        | 8           | 310       | 323         |
| TH2       | 04/13/06 | Soil        | 8           | 146       | 25          |
| TH3       | 04/13/06 | Soil        | 7           | 175       | 940         |
| TH4       | 04/13/06 | Soil        | 7           | 27        | ND          |
| TH5       | 04/13/06 | Soil        | 7           | ND        | ND          |
| TH6       | 04/13/06 | Soil        | 7           | ND        | ND          |

Notes:  
 OVM = Organic vapor meter.  
 TPH = Total Petroleum Hydrocarbons.  
 ppm = Parts per million.  
 mg/Kg = milligram per kilogram.  
 ND = Not detected at the reporting limit.

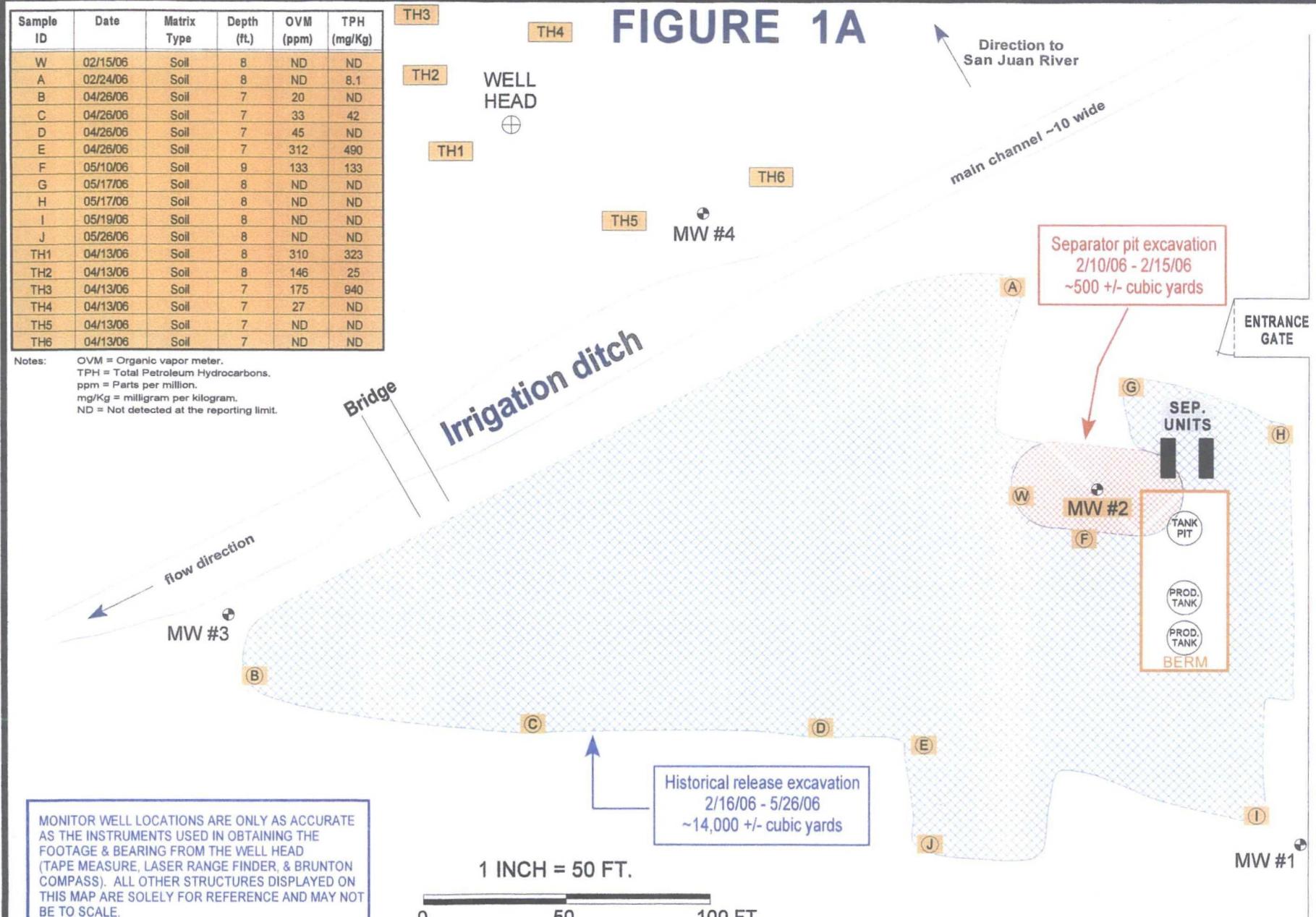
MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION CO.  
 CHAVEZ GC A #1  
 SW/4 NE/4 SEC. 3, T29N, R9W  
 SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.  
 CONSULTING PETROLEUM / RECLAMATION SERVICES  
 P.O. BOX 87  
 BLOOMFIELD, NEW MEXICO 87413  
 PHONE: (505) 632-1199

PROJECT: MW INSTALLATION  
 DRAWN BY: NJV  
 FILENAME: CHAVEZ GC A 1-SM2.SKF  
 REVISED: 08-18-06 NJV

SITE  
 MAP  
 08/06



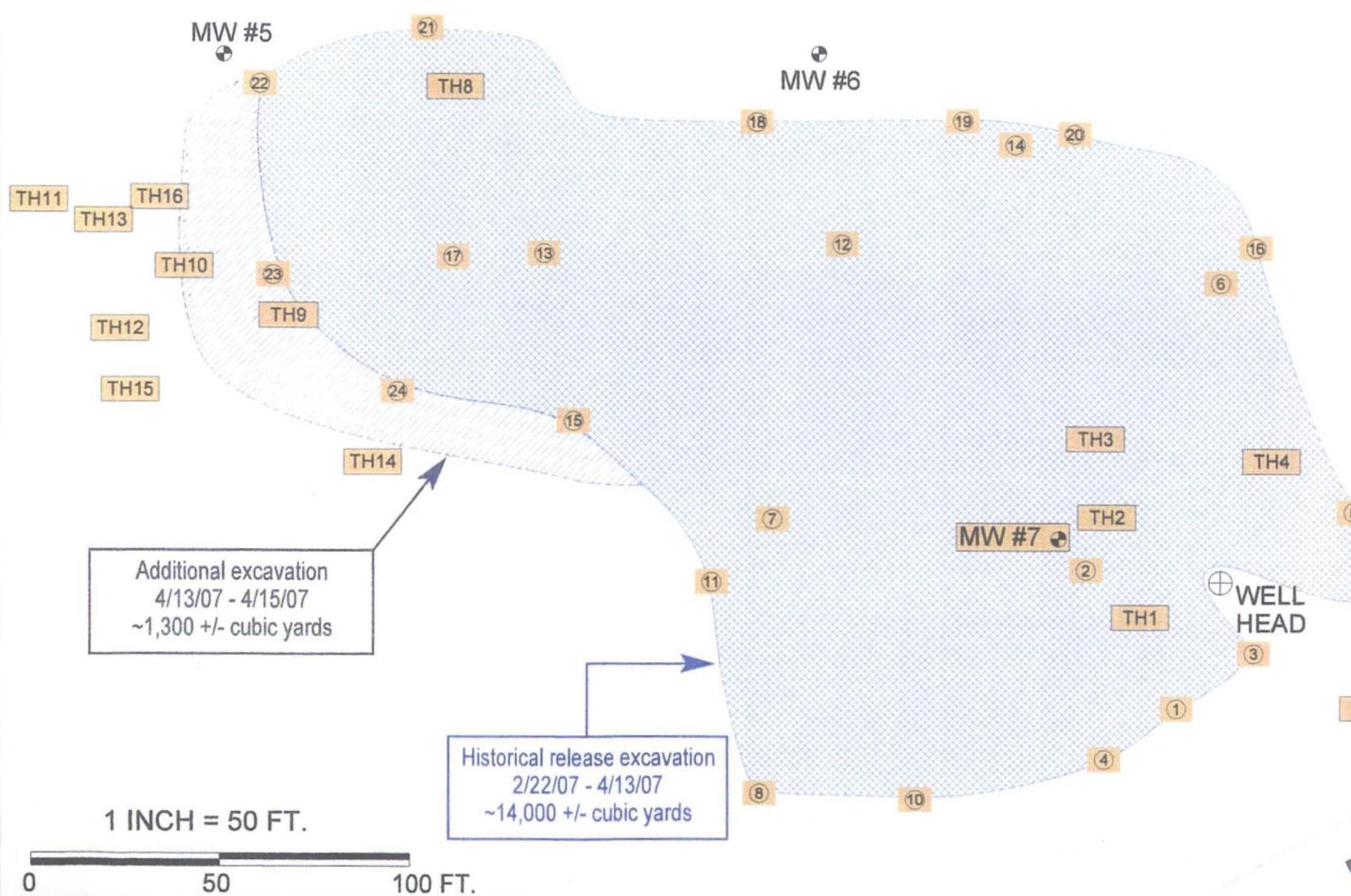
A  
C  
C  
E  
S  
S  
  
R  
O  
A  
D

# FIGURE 1B



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

Direction to San Juan River



| Sample ID | Date     | Matrix Type | Depth (ft.) | OVM (ppm) | TPH (mg/Kg) | Benz. (ppb) | BTEX (ppb) |
|-----------|----------|-------------|-------------|-----------|-------------|-------------|------------|
| 1         | 02/22/07 | Soil        | 9           | 3.3       | 0.3         | 21.5        | 262        |
| 2         | 02/22/07 | Soil        | 7           | 514       | 1,550       | ND          | 33,030     |
| 3         | 02/26/07 | Soil        | 9           | 1.1       | 0.0         | ND          | 39.9       |
| 4         | 02/28/07 | Soil        | 7           | 0.0       | 0.0         | 2.0         | 8.0        |
| 5         | 03/07/07 | Soil        | 7           | 175       | N/A         | N/A         | N/A        |
| 6         | 03/07/07 | Soil        | 7           | 270       | N/A         | N/A         | N/A        |
| 7         | 03/07/07 | Soil        | 7           | 144       | N/A         | N/A         | N/A        |
| 8         | 03/07/07 | Soil        | 7           | 108       | N/A         | N/A         | N/A        |
| 9         | 03/08/07 | Soil        | 9           | 2.4       | 1.0         | 4.9         | 644        |
| 10        | 03/08/07 | Soil        | 7           | 24        | 0.5         | 3.2         | 211        |
| 11        | 03/08/07 | Soil        | 8           | 1.6       | 0.0         | ND          | 42.2       |
| 12        | 03/13/07 | Soil        | 8           | 245       | 25.1        | ND          | 717        |
| 13        | 03/16/07 | Soil        | 8           | 118       | 5.1         | 23.3        | 854        |
| 14        | 03/18/07 | Soil        | 8           | 178       | 450         | 915         | 19,290     |
| 15        | 03/21/07 | Soil        | 8           | 186       | 10.8        | 5.4         | 726        |
| 16        | 03/21/07 | Soil        | 8           | 2.3       | 0.0         | 2.7         | 104        |
| 17        | 03/28/07 | Soil        | 8           | 239       | 2,360       | 1,540       | 31,510     |
| 18        | 03/29/07 | Soil        | 8           | 257       | 82.2        | 110         | 2,620      |
| 19        | 03/29/07 | Soil        | 8           | 10        | 4.2         | ND          | 284        |
| 20        | 04/04/07 | Soil        | 7           | 138       | ND          | ND          | 94.8       |
| 21        | 04/12/07 | Soil        | 8-9         | 0.5       | ND          | 2.1         | 10.5       |
| 22        | 04/12/07 | Soil        | 8-9         | 2.3       | ND          | 3.6         | 66.4       |
| 23        | 04/12/07 | Soil        | 8-9         | 204       | N/A         | N/A         | N/A        |
| 24        | 04/12/07 | Soil        | 8-9         | 201       | N/A         | N/A         | N/A        |
| TH1       | 04/13/06 | Soil        | 8           | 310       | 323         | ND          | 1,930      |
| TH2       | 04/13/06 | Soil        | 8           | 146       | 25          | ND          | 280        |
| TH3       | 04/13/06 | Soil        | 7           | 175       | 940         | ND          | 7,000      |
| TH4       | 04/13/06 | Soil        | 7           | 27        | 0.0         | ND          | ND         |
| TH5       | 04/13/06 | Soil        | 7           | 0.0       | 0.0         | ND          | ND         |
| TH6       | 04/13/06 | Soil        | 7           | 0.0       | 0.0         | ND          | ND         |
| TH7       | 03/29/07 | Soil        | 6           | 0.0       | N/A         | N/A         | N/A        |
| TH8       | 04/04/07 | Soil        | 8-9         | 3.0       | N/A         | N/A         | N/A        |
| TH9       | 04/04/07 | Soil        | 8-9         | 177       | 0.6         | 15.0        | 539        |
| TH10      | 04/04/07 | Soil        | 8-9         | 200       | 411         | 86.9        | 7,000      |
| TH11      | 04/12/07 | Soil        | 8-9         | 0.0       | N/A         | N/A         | N/A        |
| TH12      | 04/12/07 | Soil        | 8-9         | 0.2       | ND          | ND          | ND         |
| TH13      | 04/12/07 | Soil        | 8-9         | 0.2       | ND          | ND          | ND         |
| TH14      | 04/13/07 | Soil        | 8-9         | 0.0       | ND          | 5.7         | 95.2       |
| TH15      | 04/13/07 | Soil        | 8-9         | 0.0       | N/A         | N/A         | N/A        |
| TH16      | 04/13/07 | Soil        | 8-9         | 0.5       | N/A         | N/A         | N/A        |

Note:  
 OVM = Organic vapor meter.  
 TPH = Total Petroleum Hydrocarbons.  
 Benz. = benzene.  
 BTEX = benzene, toluene, ethylbenzene, total xylenes.  
 ppm = Parts per million.  
 ppb = Parts per billion.  
 mg/Kg = milligram per kilogram.  
 ND = Not detected at the reporting limit.  
 N/A = Not available or applicable.

BP AMERICA PRODUCTION CO.  
CHAVEZ GC A #1  
SW/4 NE/4 SEC. 3, T29N, R9W  
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW INSTALLATIONS  
DRAWN BY: NJV  
FILENAME: CHAVEZ GC A 1-SM3.SKF  
REVISED: 09-12-07 NJV

NORTHWEST EXCAVATION SITE MAP  
04/07

# ENVIROTECH LABS

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 1 @ 9'  
Laboratory Number: 40175  
Chain of Custody No: 1996  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 02-26-07  
Date Sampled: 02-22-07  
Date Received: 02-22-07  
Date Extracted: 02-23-07  
Date Analyzed: 02-26-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 0.3                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 0.3                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: Chavez GC A #1 North Source.

*Christine Weller*  
Analyst

*Ruth Vanly*  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 1 @ 9'        | Date Reported:      | 02-26-07  |
| Laboratory Number: | 40175         | Date Sampled:       | 02-22-07  |
| Chain of Custody:  | 1996          | Date Received:      | 02-22-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 02-26-07  |
| Preservative:      | Cool          | Date Extracted:     | 02-23-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 21.5                     | 1.8                      |
| Toluene      | 20.0                     | 1.7                      |
| Ethylbenzene | 30.0                     | 1.5                      |
| p,m-Xylene   | 130                      | 2.2                      |
| o-Xylene     | 60.0                     | 1.0                      |
| Total BTEX   | 262                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source.

Christie M. Walter  
Analyst

Blair Waller  
Review

# ENVIROTECH LABS

## Chloride

Environmental Testing • Laboratory Services • Consulting

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 1 @ 9'          | Date Reported:    | 02-26-07  |
| Lab ID#:       | 40175           | Date Sampled:     | 02-22-07  |
| Sample Matrix: | Soil            | Date Received:    | 02-22-07  |
| Preservative:  | Cool            | Date Analyzed:    | 02-26-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 1996      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 8.18                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1: North Source.

Paula Waller  
Analyst

Christine M. Waller  
Review

# ENVIROTECH LABS

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 2 @ 7'          | Date Reported:      | 02-26-07  |
| Laboratory Number:   | 40176           | Date Sampled:       | 02-22-07  |
| Chain of Custody No. | 1996            | Date Received:      | 02-22-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 02-23-07  |
| Preservative:        | Cool            | Date Analyzed:      | 02-26-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 1,120                    | 0.2                      |
| Diesel Range (C10 - C28)     | 433                      | 0.1                      |
| Total Petroleum Hydrocarbons | 1,550                    | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B. Nonhalogenated Volatile Organics. Test Methods for Evaluating Solid Waste, SW-846. USEPA. December 1996.

Comments: Chavez GC A #1 North Source.

Christine M. Waller  
Analyst

Richie Vanell  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 2 @ 7'        | Date Reported:      | 02-26-07  |
| Laboratory Number: | 40176         | Date Sampled:       | 02-22-07  |
| Chain of Custody:  | 1996          | Date Received:      | 02-22-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 02-26-07  |
| Preservative:      | Cool          | Date Extracted:     | 02-23-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | 1,960                    | 1.7                      |
| Ethylbenzene | 2,640                    | 1.5                      |
| p,m-Xylene   | 25,470                   | 2.2                      |
| o-Xylene     | 2,960                    | 1.0                      |
| Total BTEX   | 33,030                   |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source.

*Martine M. Waller*  
Analyst

*Ruth Waller*  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 2 @ 7'          | Date Reported:    | 02-26-07  |
| Lab ID#:       | 40176           | Date Sampled:     | 02-22-07  |
| Sample Matrix: | Soil            | Date Received:    | 02-22-07  |
| Preservative:  | Cool            | Date Analyzed:    | 02-26-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 1996      |

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

|                |      |
|----------------|------|
| Total Chloride | 8.58 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed . 1992.

Comments: Chavez GC A #1: North Source.

Shahr Vanll  
Analyst

Christine M. Wadens  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 3 @ 9           | Date Reported:      | 02-28-07  |
| Laboratory Number:   | 40193           | Date Sampled:       | 02-26-07  |
| Chain of Custody No: | 2132            | Date Received:      | 02-27-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 02-27-07  |
| Preservative:        | Cool            | Date Analyzed:      | 02-28-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area.

Christine M. Waller  
Analyst

Blair D. Vanell  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sampic ID:         | 3 @ 9'        | Date Reported:      | 02-28-07  |
| Laboratory Number: | 40103         | Date Sampled:       | 02-26-07  |
| Chain of Custody:  | 2132          | Date Received:      | 02-27-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 02-28-07  |
| Preservative:      | Cool          | Date Extracted:     | 02-27-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | ND                       | 1.7                      |
| Ethylbenzene | 3.4                      | 1.5                      |
| p,m-Xylene   | 23.5                     | 2.2                      |
| o-Xylene     | 13.0                     | 1.0                      |
| Total BTEX   | 39.9                     |                          |

ND - Parameter not detected at the stated detection limit

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

References: Method 5030B, Purge-and-Trap, Test Method for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area.

Christine M. Wailes  
Analyst

Robert Wall  
Review

# ENVIROTECH LABS

Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 3 @ 9'          | Date Reported:    | 02-28-07  |
| Lab ID#:       | 40193           | Date Sampled:     | 02-26-07  |
| Sample Matrix: | Soil            | Date Received:    | 02-27-07  |
| Preservative:  | Cool            | Date Analyzed:    | 02-27-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2132      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 9.0                   |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area.

Blair Vanell  
Analyst

Christine M. Winters  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 4 @ 7'  
Laboratory Number: 40194  
Chain of Custody No: 2132  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 02-28-07  
Date Sampled: 02-26-07  
Date Received: 02-27-07  
Date Extracted: 02-27-07  
Date Analyzed: 02-28-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USFPA, December 1996.

Comments: Chavez GC A #1 North Source Area.

  
Christine M. Waller  
Analyst

  
Robert Waller  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 1 @ 7'        | Date Reported:      | 02-28-07  |
| Laboratory Number: | 40194         | Date Sampled:       | 02-26-07  |
| Chain of Custody:  | 2132          | Date Received:      | 02-27-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 02-28-07  |
| Preservative:      | Cool          | Date Extracted:     | 02-27-07  |
| Condition:         | Cool & intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 2.0                      | 1.8                      |
| Toluene      | ND                       | 1.7                      |
| Ethylbenzene | ND                       | 1.5                      |
| p,m-Xylene   | 4.7                      | 2.2                      |
| o-Xylene     | 1.3                      | 1.0                      |
| Total BTEX   | 8.0                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area.

Christine M. Walker  
Analyst

Ruth D. Wall  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 4 @ 7'          | Date Reported:    | 02-28-07  |
| Lab ID#:       | 40194           | Date Sampled:     | 02-26-07  |
| Sample Matrix: | Soil            | Date Received:    | 02-27-07  |
| Preservative:  | Cool            | Date Analyzed:    | 02-27-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2132      |

### Parameter

### Concentration (mg/Kg)

Total Chloride

6.8

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area.

Shelby Vanall  
Analyst

Christine mg Isacces  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 9 @ 9'  
Laboratory Number: 40341  
Chain of Custody No: 2211  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

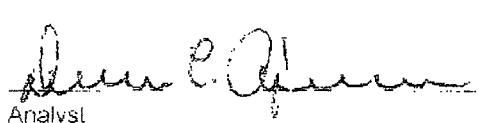
Project #: 94034-010  
Date Reported: 03-12-07  
Date Sampled: 03-08-07  
Date Received: 03-08-07  
Date Extracted: 03-09-07  
Date Analyzed: 03-12-07  
Analysis Requested: 8015 TPH

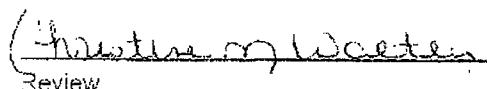
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 1.0                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 1.0                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

  
Sean L. Allen  
Analyst

  
Christine M. Woeter  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 91034-010 |
| Sample ID:         | 9 @ 9'        | Date Reported:      | 03-12-07  |
| Laboratory Number: | 40341         | Date Sampled:       | 03-08-07  |
| Chain of Custody:  | 2211          | Date Received:      | 03-08-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-12-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-09-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 4.9                      | 1.8                      |
| Toluene      | 53.5                     | 1.7                      |
| Ethylbenzene | 122                      | 1.5                      |
| p,m-Xylene   | 347                      | 2.2                      |
| o-Xylene     | 117                      | 1.0                      |
| Total BTEX   | 644                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Allen C. Allen  
Analyst

Christie M. Waeters  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034 010 |
| Sample ID:     | 9 @ 9'          | Date Reported:    | 03-12-07  |
| Lab ID#:       | 40341           | Date Sampled:     | 03-08-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-08-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-12-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2211      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 18.0                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. Walter  
Analyst

Dawn C. Aguirre  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 10 @ 7'  
Laboratory Number: 40342  
Chain of Custody No: 2211  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 03-12-07  
Date Sampled: 03-08-07  
Date Received: 03-08-07  
Date Extracted: 03-09-07  
Date Analyzed: 03-12-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 0.5                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 0.5                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Alvaro L. Alvarado  
Analyst

Christine M. Walker  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 10 @ 7'       | Date Reported:      | 03-12-07  |
| Laboratory Number: | 40349         | Date Sampled:       | 03-08-07  |
| Chain of Custody:  | 2211          | Date Received:      | 03-08-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-12-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-08-07  |
| Condition:         | Cool & intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 3.2                      | 1.8                      |
| Toluene      | 24.4                     | 1.7                      |
| Ethylbenzene | 15.0                     | 1.5                      |
| p,m-Xylene   | 134                      | 2.2                      |
| o-Xylene     | 34.1                     | 1.0                      |
| Total BTEX   | 211                      |                          |

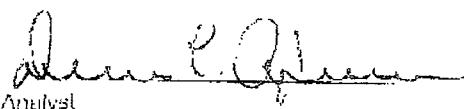
ND - Parameter not detected at the stated detection limit.

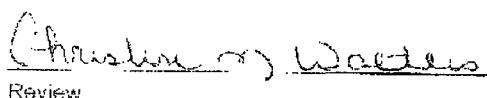
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1998.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1998.

Comments: Chavez GC A #1 North Source Area

  
Dennis P. O'Brien  
Analyst

  
Christine M. Wadles  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 10 @ 7'         | Date Reported:    | 03-12-07  |
| Lab ID#:       | 40342           | Date Sampled:     | 03-08-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-08-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-12-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2211      |

### Parameter

### Concentration (mg/Kg)

|                |      |
|----------------|------|
| Total Chloride | 16.0 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. Webster  
Analyst

Debra L. Aguirre  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 11 @ 8  
Laboratory Number: 40343  
Chain of Custody No: 2211  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

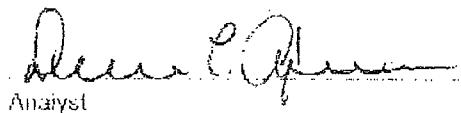
Project #: 94034-010  
Date Reported: 03-12-07  
Date Sampled: 03-08-07  
Date Received: 03-08-07  
Date Extracted: 03-09-07  
Date Analyzed: 03-12-07  
Analysis Requested: 8015 TPH

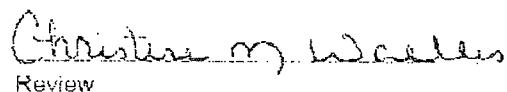
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

  
Diane L. Flores  
Analyst

  
Christine M. Wheeler  
Review

# ENVIROTECH LABS

AN ISO 9001:2000 CERTIFIED FACILITY  
100% EPA APPROVED FOR ANALYSIS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blaqq / DF    | Project #:          | 91034-010 |
| Sample ID:         | 11 @ 8'       | Date Reported:      | 03-12-07  |
| Laboratory Number: | 40343         | Date Sampled:       | 03-08-07  |
| Chain of Custody:  | 2211          | Date Received:      | 03-08-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-12-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-09-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | 2.4                      | 1.7                      |
| Ethylbenzene | 6.2                      | 1.5                      |
| p,m-Xylene   | 22.4                     | 2.2                      |
| o-Xylene     | 11.2                     | 1.0                      |
| Total BTEX   | 42.2                     |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Debra P. Roberts  
Analyst

Christine M. Wailes  
Review

# ENVIROTECH LABS

## Chloride

Sample ID: 11 @ 8' Lab ID#: 40343 Date Sampled: 03-08-07

Client: BHP / BP  
Sample ID: 11 @ 8'  
Lab ID#: 40343  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-(11)  
Date Reported: 03-12-07  
Date Received: 03-08-07  
Date Analyzed: 03-12-07  
Chain of Custody: - 2211

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

|                |      |
|----------------|------|
| Total Chloride | 20.0 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavcz GC A #1 North Source Area

Christine M. Webster  
Analyst

Allen C. Gleeson  
Review

# ENVIROTECH LABS

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 12 @ 8'  
Laboratory Number: 40503  
Chain of Custody No: 2231  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and intact

Project #: 94034-010  
Date Reported: 03-15-07  
Date Sampled: 03-13-07  
Date Received: 03-14-07  
Date Extracted: 03-14-07  
Date Analyzed: 03-15-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 20.6                     | 0.2                      |
| Diesel Range (C10 - C28)     | 4.5                      | 0.1                      |
| Total Petroleum Hydrocarbons | 25.1                     | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Clean-up

Dee L. Ayers  
Analyst

Christine M. Walters  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 12 @ 8'       | Date Reported:      | 03-15-07  |
| Laboratory Number: | 40503         | Date Sampled:       | 03-13-07  |
| Chain of Custody:  | 2231          | Date Received:      | 03-14-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-15-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-14-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter     | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|---------------|--------------------------|--------------------------|
| Benzene       | ND                       | 1.8                      |
| Toluene       | 110                      | 1.7                      |
| Ethylibenzene | 70.2                     | 1.5                      |
| p,m-Xylene    | 390                      | 2.2                      |
| o-Xylene      | 147                      | 1.0                      |
| Total BTEX    | 717                      |                          |

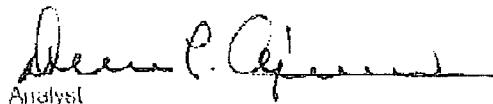
ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

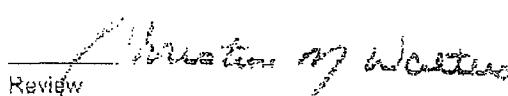
References: Method 5030B, Purge and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Clean-up

  
Steven P. Aguirre

Analyst

  
Brian M. Walker

Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 12 @ 8'         | Date Reported:    | 03-15-07  |
| Lab ID#:       | 40503           | Date Sampled:     | 03-13-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-14-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-15-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2231      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 22.0                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Clean-up

Maurice M. Walters  
Analyst

Dee C. Gleeson  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 13 @ 8'         | Date Reported:      | 03-20-07  |
| Laboratory Number:   | 40526           | Date Sampled:       | 03-16-07  |
| Chain of Custody No: | 2249            | Date Received:      | 03-16-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 03-19-07  |
| Preservative:        | Cool            | Date Analyzed:      | 03-20-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 5.1                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 5.1                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dee C. Aguirre  
Analyst

Matthew L. Coates  
Review

# ENVIROTECH LABS

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 13 @ 8'       | Date Reported:      | 03-20-07  |
| Laboratory Number: | 40526         | Date Sampled:       | 03-16-07  |
| Chain of Custody:  | 2249          | Date Received:      | 03-16-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-20-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-19-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 23.4                     | 1.8                      |
| Toluene      | 109                      | 1.7                      |
| Ethylbenzene | 22.0                     | 1.5                      |
| p,m-Xylene   | 400                      | 2.2                      |
| o-Xylene     | 99.9                     | 1.0                      |
| Total BTEX   | 654                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dee C. Allen  
Analyst

(Matthew) Walker  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 13 @ 8'         | Date Reported:    | 03-20-07  |
| Lab ID#:       | 40526           | Date Sampled:     | 03-16-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-16-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-19-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2249      |

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

|                |      |
|----------------|------|
| Total Chloride | 12.2 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christie M. Wootes  
Analyst

Susan P. Rymer  
Review

# ENVIROTECH LABS

AN ENVIRONMENTAL CONSULTING & ANALYTICAL LABORATORY

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

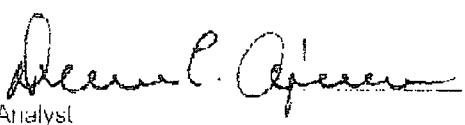
|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 14 @ 8'         | Date Reported:      | 03-20-07  |
| Laboratory Number:   | 40527           | Date Sampled:       | 03-16-07  |
| Chain of Custody No: | 2249            | Date Received:      | 03-16-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 03-19-07  |
| Preservative:        | Cool            | Date Analyzed:      | 03-20-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

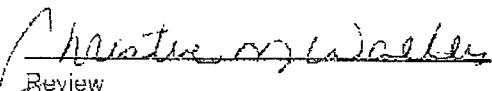
| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 414                      | 0.2                      |
| Diesel Range (C10 - C28)     | 35.7                     | 0.1                      |
| Total Petroleum Hydrocarbons | 450                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

  
Debra L. Apesos  
Analyst

  
Christopher J. Winkler  
Review

# ENVIROTECH LABS

ENVIRONMENTAL ANALYSIS & PROCESSING

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 14 @ 8'       | Date Reported:      | 03-20-07  |
| Laboratory Number: | 40527         | Date Sampled:       | 03-16-07  |
| Chain of Custody:  | 2249          | Date Received:      | 03-16-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-20-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-19-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 915                      | 1.8                      |
| Toluene      | 5,060                    | 1.7                      |
| Ethylbenzene | 2,580                    | 1.5                      |
| p,m-Xylene   | 7,320                    | 2.2                      |
| o-Xylene     | 3,410                    | 1.0                      |
| Total BTEX   | 19,290                   |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

References: Method 8030B, Purge and Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dee P. Allen  
Analyst

Christine M. Wallen  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 14 @ 8'         | Date Reported:    | 03-20-07  |
| Lab ID#:       | 40527           | Date Sampled:     | 03-16-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-16-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-19-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2249      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 31.8                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. Walters  
Analyst

Steve P. Gleason  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 15 @ 8'         | Date Reported:      | 03-22-07  |
| Laboratory Number:   | 40555           | Date Sampled:       | 03-21-07  |
| Chain of Custody No: | 2305            | Date Received:      | 03-21-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 03-22-07  |
| Preservative:        | Cool            | Date Analyzed:      | 03-22-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 7.8                      | 0.2                      |
| Diesel Range (C10 - C28)     | 3.0                      | 0.1                      |
| Total Petroleum Hydrocarbons | 10.8                     | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: Chavez GC A #1 North Source Area

Deeann C. Aguirre  
Analyst

Christine M. Walter  
Review

# ENVIROTECH LABS

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94031-010 |
| Sample ID:         | 15 @ 8'       | Date Reported:      | 03-22-07  |
| Laboratory Number: | 40555         | Date Sampled:       | 03-21-07  |
| Chain of Custody:  | 2305          | Date Received:      | 03-21-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 03-22-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-22-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTFX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 5.4                      | 1.8                      |
| Toluene      | 31.2                     | 1.7                      |
| Ethylbenzene | 178                      | 1.5                      |
| p,m-Xylene   | 309                      | 2.2                      |
| o-Xylene     | 202                      | 1.0                      |
| Total BTEX   | 726                      |                          |

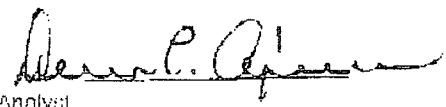
ND - Parameter not detected at the stated detection limit.

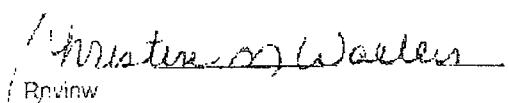
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 8030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

  
Analyst

  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 15 @ 8'         | Date Reported:    | 03-22-07  |
| Lab ID#:       | 40565           | Date Sampled:     | 03-21-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-21-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-22-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2305      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 48.6                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. McAttee  
Analyst

Susan C. Aguirre  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 16 @ 8'  
Laboratory Number: 10556  
Chain of Custody No: 2305  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 03-22-07  
Date Sampled: 03-21-07  
Date Received: 03-21-07  
Date Extracted: 03-22-07  
Date Analyzed: 03-22-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Deena C. Gleason  
Analyst

Christine J. Morales  
Review

# ENVIROTECH LABS

10. The following table shows the number of hours worked by each employee.

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

Client: Blagg / BP  
Sample ID: 16 @ 8'  
Laboratory Number: 40556  
Chain of Custody: 2305  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

|                     |           |
|---------------------|-----------|
| Project #:          | 94034-010 |
| Date Reported:      | 03-22-07  |
| Date Sampled:       | 03-21-07  |
| Date Received:      | 03-21-07  |
| Date Analyzed:      | 03-22-07  |
| Date Extracted:     | 03-22-07  |
| Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 2.7                      | 1.8                      |
| Toluene      | 12.7                     | 1.7                      |
| Ethylbenzene | 16.7                     | 1.5                      |
| p,m-Xylene   | 49.4                     | 2.2                      |
| o-Xylene     | 22.9                     | 1.0                      |
| Total BTEX   | 104                      |                          |

ND Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics. Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Allen C. Barnes

## Wuthering Heights

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 16 @ 8'         | Date Reported:    | 03-22-07  |
| Lab ID#:       | 40556           | Date Sampled:     | 03-21-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-21-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-22-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2305      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 14.9                  |

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. Waters  
Analyst

Reenal C. Agnew  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034 010 |
| Sample ID:           | 17 @ 8'         | Date Reported:      | 04-02-07  |
| Laboratory Number:   | 40667           | Date Sampled:       | 03-29-07  |
| Chain of Custody No: | 2036            | Date Received:      | 03-30-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 03-30-07  |
| Preservative:        | Cool            | Date Analyzed:      | 04-02-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 2,110                    | 0.2                      |
| Diesel Range (C10 - C28)     | 249                      | 0.1                      |
| Total Petroleum Hydrocarbons | 2,360                    | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USFPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Jeanne C. Chapman  
Analyst

Christine M. Wheeler  
Review

# ENVIROTECH LABS

Analyst: \_\_\_\_\_ Date Analyzed: \_\_\_\_\_

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 17 @ 8'       | Date Reported:      | 04-02-07  |
| Laboratory Number: | 40667         | Date Sampled:       | 03-29-07  |
| Chain of Custody:  | 2036          | Date Received:      | 03-30-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-02-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-30-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 1,540                    | 1.8                      |
| Toluene      | 6,000                    | 1.7                      |
| Ethylbenzene | 3,020                    | 1.5                      |
| p,m-Xylene   | 17,000                   | 2.2                      |
| o-Xylene     | 3,950                    | 1.0                      |
| Total BTEX   | 31,510                   |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 99.0 %           |
|                       | 1,4-difluorobenzene | 99.0 %           |
|                       | Bromochlorobenzene  | 99.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dene C. O'Brien  
Analyst

Christine M. Webster  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 17 @ 8'         | Date Reported:    | 03-30-07  |
| Lab ID#:       | 40667           | Date Sampled:     | 03-29-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-30-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-30-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2036      |

| Parameter      | Concentration (mg/Kg) |
|----------------|-----------------------|
| Total Chloride | 52.0                  |

Reference                    Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments.                Chavez GC A #1   North Source Area

Kristine M. Waeter  
Analyst

Sheena P. Agnew  
Review

# ENVIROTECH LABS

ENVIRONMENTAL CONSULTING & ANALYSIS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 18 @ 8'  
Laboratory Number: 40668  
Chain of Custody No: 2036  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-02-07  
Date Sampled: 03-29-07  
Date Received: 03-30-07  
Date Extracted: 03-30-07  
Date Analyzed: 04-02-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 73.8                     | 0.2                      |
| Diesel Range (C10 - C28)     | 8.4                      | 0.1                      |
| Total Petroleum Hydrocarbons | 82.2                     | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

*Deena L. Apure*  
Analyst

*Christopher W. Jacobs*  
Review

# ENVIROTECH LABS

Environmental Testing Laboratory • Certified by EPA • NM • CO • AZ • TX

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034 010 |
| Sample ID:         | 18 @ 8'       | Date Reported:      | 04-02-07  |
| Laboratory Number: | 411668        | Date Sampled:       | 03-29-07  |
| Chain of Custody:  | 2036          | Date Received:      | 03-30-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-02-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-30-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 110                      | 1.8                      |
| Toluene      | 197                      | 1.7                      |
| Ethylbenzene | 487                      | 1.5                      |
| p,m-Xylene   | 1,170                    | 2.2                      |
| o-Xylene     | 653                      | 1.0                      |
| Total BTEX   | 2,620                    |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge and Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Debra P. Alvarado  
Analyst

Christine M. Waeter  
Review

# ENVIROTECH LABS

## Chloride

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 18 @ 8'         | Date Reported:    | 03-30-07  |
| Lab ID#:       | 40668           | Date Sampled:     | 03-29-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-30-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-30-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2036      |

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

|                |      |
|----------------|------|
| Total Chloride | 36.0 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992

Comments: Chavez GC A #1 North Source Area

Christine M. Waters  
Analyst

Alecia C. Aguirre  
Review

# ENVIROTECH LABS

Environmental Testing • Consulting • Remediation Services

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034 010 |
| Sample ID:           | 19 @ 8'         | Date Reported:      | 04-02-07  |
| Laboratory Number    | 40669           | Date Sampled:       | 03-29-07  |
| Chain of Custody No: | 2036            | Date Received:      | 03-30-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 03-30-07  |
| Preservative:        | Cool            | Date Analyzed:      | 04-02-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 4.2                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 4.2                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Deann P. Gleason  
Analyst

Wintine or J. Waller  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 19 @ 8'       | Date Reported:      | 04-02-07  |
| Laboratory Number: | 40669         | Date Sampled:       | 03-29-07  |
| Chain of Custody:  | 2036          | Date Received:      | 03-30-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-02-07  |
| Preservative:      | Cool          | Date Extracted:     | 03-30-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | 19.8                     | 1.7                      |
| Ethylbenzene | 31.5                     | 1.5                      |
| p,m-Xylene   | 143                      | 2.2                      |
| o-Xylene     | 89.5                     | 1.0                      |
| Total BTEX   | 284                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Debra P. Queen  
Analyst

Christine M. Wadsworth  
Review

# ENVIROTECH LABS

## Chloride

Environmental Testing • Laboratory Services • Consulting

|                |                 |                   |           |
|----------------|-----------------|-------------------|-----------|
| Client:        | Blagg / BP      | Project #:        | 94034-010 |
| Sample ID:     | 19 @ 8'         | Date Reported:    | 03-30-07  |
| Lab ID#:       | 40660           | Date Sampled:     | 03-29-07  |
| Sample Matrix: | Soil            | Date Received:    | 03-30-07  |
| Preservative:  | Cool            | Date Analyzed:    | 03-30-07  |
| Condition:     | Cool and Intact | Chain of Custody: | 2036      |

| Parameter | Concentration (mg/Kg) |
|-----------|-----------------------|
|-----------|-----------------------|

|                |      |
|----------------|------|
| Total Chloride | 48.0 |
|----------------|------|

Reference: Standard Methods For The Examination of Water And Waste Water". 18th ed., 1992.

Comments: Chavez GC A #1 North Source Area

Christine M. Waeter  
Analyst

Dee P. Green  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 20 @ 7'  
Laboratory Number: 40/32  
Chain of Custody No: 2420  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-06-07  
Date Sampled: 04-04-07  
Date Received: 04-04-07  
Date Extracted: 04-05-07  
Date Analyzed: 04-06-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dee C. O'Brien  
Analyst

Christine M. Walter  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Bragg / BP    | Project #:          | 94034 010 |
| Sample ID:         | 20 @ 7'       | Date Reported:      | 04-06-07  |
| Laboratory Number: | 40732         | Date Sampled:       | 04-04-07  |
| Chain of Custody:  | 2420          | Date Received:      | 04-04-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-06-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-05-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter         | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|-------------------|--------------------------|--------------------------|
| Benzene           | ND                       | 1.8                      |
| Toluene           | 3.7                      | 1.7                      |
| Ethylbenzene      | 14.2                     | 1.5                      |
| p,m-Xylene        | 42.9                     | 2.2                      |
| o-Xylene          | 34.0                     | 1.0                      |
| <b>Total BTEX</b> | <b>94.8</b>              |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

*Deese L. Green*  
Analyst

*Winston M. Walker*  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: 21 @ 8'-9'  
Laboratory Number: 41025  
Chain of Custody No: 2482  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-16-07  
Date Sampled: 04-12-07  
Date Received: 04-13-07  
Date Extracted: 04-13-07  
Date Analyzed: 04-16-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A#1 North Area

Dee C. Afem  
Analyst

Christine M. Webster  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BH    | Project #:          | 94034-010 |
| Sample ID:         | 21 @ 8'-9'    | Date Reported:      | 04-16-07  |
| Laboratory Number: | 41025         | Date Sampled:       | 04-12-07  |
| Chain of Custody:  | 2482          | Date Received:      | 04-13-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-16-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-13-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 2.1                      | 1.8                      |
| Toluene      | 4.4                      | 1.7                      |
| Ethylbenzene | ND                       | 1.5                      |
| p,m-Xylene   | 2.9                      | 2.2                      |
| o-Xylene     | 1.1                      | 1.0                      |
| Total BTEX   | 10.5                     |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

Alecia C. O'Brien  
Alyst

Analyst or Coordinator  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | 22 @ 8'-9'      | Date Reported:      | 04-16-07  |
| Laboratory Number:   | 41026           | Date Sampled:       | 04-12-07  |
| Chain of Custody No: | 2482            | Date Received:      | 04-13-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 04-13-07  |
| Preservative:        | Cool            | Date Analyzed:      | 04-16-07  |
| Condition:           | Cool and Infect | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

Dee C. Ayers  
Analyst

Christopher Walker  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | 22 @ 8'-9'    | Date Reported:      | 04-16-07  |
| Laboratory Number: | 41026         | Date Sampled:       | 04-12-07  |
| Chain of Custody:  | 2482          | Date Received:      | 04-13-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-16-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-13-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter         | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|-------------------|--------------------------|--------------------------|
| Benzene           | 3.5                      | 1.8                      |
| Toluene           | 9.3                      | 1.7                      |
| Ethylbenzene      | 8.4                      | 1.5                      |
| p,m-Xylene        | 28.8                     | 2.2                      |
| o-Xylene          | 16.4                     | 1.0                      |
| <b>Total BTEX</b> | <b>66.4</b>              |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

Steve L. Agnew  
Analyst

Christine M. Waeter  
Review

# ENVIROTECH LABS

Environmental Testing • Analytical Services • Consulting

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: TH #9  
Laboratory Number: 40733  
Chain of Custody No: 2420  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-06-07  
Date Sampled: 04-04-07  
Date Received: 04-04-07  
Date Extracted: 04-05-07  
Date Analyzed: 04-06-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 0.8                      | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | 0.8                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Sheena C. Gleason  
Analyst

Matthew Walker  
Review

# ENVIROTECH LABS

Environmental Testing • Analytical Services • Consulting Services

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | TH #9         | Date Reported:      | 04-06-07  |
| Laboratory Number: | 40733         | Date Sampled:       | 04-04-07  |
| Chain of Custody:  | 2420          | Date Received:      | 04-04-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-06-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-05-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 15.0                     | 1.8                      |
| Toluene      | 70.6                     | 1.7                      |
| Ethylbenzene | 119                      | 1.5                      |
| p,m-Xylene   | 225                      | 2.2                      |
| o-Xylene     | 109                      | 1.0                      |
| Total BTEX   | 539                      |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Dee C. Adair  
Analyst

Christopher M. Walker  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: TII #10  
Laboratory Number: 40734  
Chain of Custody No: 2420  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-06-07  
Date Sampled: 04-04-07  
Date Received: 04-04-07  
Date Extracted: 04-05-07  
Date Analyzed: 04-06-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | 390                      | 0.2                      |
| Diesel Range (C10 - C28)     | 20.8                     | 0.1                      |
| Total Petroleum Hydrocarbons | 411                      | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

  
Deena P. Aguirre  
Analyst

  
Christine Aguirre  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | TII #10       | Date Reported:      | 04-06-07  |
| Laboratory Number: | 40734         | Date Sampled:       | 04-04-07  |
| Chain of Custody:  | 2420          | Date Received:      | 04-04-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-06-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-05-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 86.9                     | 1.8                      |
| Toluene      | 1,330                    | 1.7                      |
| Ethylbenzene | 1,170                    | 1.5                      |
| p,m-Xylene   | 3,180                    | 2.2                      |
| o-Xylene     | 1,327                    | 1.0                      |
| Total BTEX   | 7,090                    |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-840, USEPA, December 1996.

Comments: Chavez GC A #1 North Source Area

Debra P. Agnew  
Analyst

Christine M. Wootton  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: TH #12 @ 8-9'  
Laboratory Number: 41027  
Chain of Custody No: 2482  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-16-07  
Date Sampled: 04-12-07  
Date Received: 04-13-07  
Date Extracted: 04-13-07  
Date Analyzed: 04-16-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

Dee C. Aguirre  
Analyst

Christine M. Warren  
Review

# ENVIROTECH LABS

ENVIRONMENTAL & INDUSTRIAL LABORATORY

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                |                     |           |
|--------------------|----------------|---------------------|-----------|
| Client:            | Blagg / BP     | Project #:          | 94034-010 |
| Sample ID:         | TH #12 8' - 9' | Date Reported:      | 04-16-07  |
| Laboratory Number: | 41027          | Date Sampled:       | 04-12-07  |
| Chain of Custody:  | 2482           | Date Received:      | 04-13-07  |
| Sample Matrix:     | Soil           | Date Analyzed:      | 04-16-07  |
| Preservative:      | Cool           | Date Extracted:     | 04-13-07  |
| Condition:         | Cool & Intact  | Analysis Requested: | BTEX      |

| Parameter        | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|------------------|--------------------------|--------------------------|
| Benzene          | ND                       | 1.8                      |
| Toluene          | ND                       | 1.7                      |
| Ethylbenzene     | ND                       | 1.5                      |
| p,m-Xylene       | ND                       | 2.2                      |
| <i>o</i> -Xylene | ND                       | 1.0                      |
| Total BTEX       | ND                       |                          |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 98.0 %           |
|                       | 1,4-difluorobenzene | 98.0 %           |
|                       | Bromochlorobenzene  | 98.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

*Denee C. Aguirre*  
Analyst

*Christopher Walker*  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

|                      |                 |                     |           |
|----------------------|-----------------|---------------------|-----------|
| Client:              | Blagg / BP      | Project #:          | 94034-010 |
| Sample ID:           | TH #13 @ 8'-9'  | Date Reported:      | 04-16-07  |
| Laboratory Number:   | 11028           | Date Sampled:       | 04-12-07  |
| Chain of Custody No: | 2482            | Date Received:      | 04-13-07  |
| Sample Matrix:       | Soil            | Date Extracted:     | 04-13-07  |
| Preservative:        | Cool            | Date Analyzed:      | 04-16-07  |
| Condition:           | Cool and Intact | Analysis Requested: | 8015 TPH  |

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND = Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

*Denee C. Aguirre*  
Analyst

*lizette mg (Writer)  
Review*

# ENVIROTECH LABS

ENVIRONMENTAL ANALYSIS & PROCESS MONITORING

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | TH #13 8'-9'  | Date Reported:      | 04-16-07  |
| Laboratory Number: | 41028         | Date Sampled:       | 04-12-07  |
| Chain of Custody:  | 2482          | Date Received:      | 04-13-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-16-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-13-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | ND                       | 1.8                      |
| Toluene      | ND                       | 1.7                      |
| Ethylbenzene | ND                       | 1.5                      |
| p,m-Xylene   | ND                       | 2.2                      |
| o-Xylene     | ND                       | 1.0                      |
| Total BTEX   | ND                       |                          |

ND - Parameter not detected at the stated detection limit.

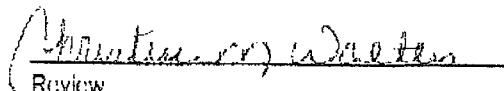
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 8030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

  
Analyst

  
Review

# ENVIROTECH LABS

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP  
Sample ID: TH #14 @ 8'-9'  
Laboratory Number: 41029  
Chain of Custody No: 2482  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

Project #: 94034-010  
Date Reported: 04-16-07  
Date Sampled: 04-12-07  
Date Received: 04-13-07  
Date Extracted: 04-13-07  
Date Analyzed: 04-16-07  
Analysis Requested: 8015 TPH

| Parameter                    | Concentration<br>(mg/Kg) | Det.<br>Limit<br>(mg/Kg) |
|------------------------------|--------------------------|--------------------------|
| Gasoline Range (C5 - C10)    | ND                       | 0.2                      |
| Diesel Range (C10 - C28)     | ND                       | 0.1                      |
| Total Petroleum Hydrocarbons | ND                       | 0.2                      |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A#1 North Area

Alecia L. Gleason  
Analyst

Mustive mg Water  
Review

# ENVIROTECH LABS

ENVIRONMENTAL ANALYSIS • CONSULTING SERVICES

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |               |                     |           |
|--------------------|---------------|---------------------|-----------|
| Client:            | Blagg / BP    | Project #:          | 94034-010 |
| Sample ID:         | IH #14 8-9'   | Date Reported:      | 04-16-07  |
| Laboratory Number: | 41029         | Date Sampled:       | 04-12-07  |
| Chain of Custody:  | 2482          | Date Received:      | 04-13-07  |
| Sample Matrix:     | Soil          | Date Analyzed:      | 04-16-07  |
| Preservative:      | Cool          | Date Extracted:     | 04-13-07  |
| Condition:         | Cool & Intact | Analysis Requested: | BTEX      |

| Parameter    | Concentration<br>(ug/Kg) | Det.<br>Limit<br>(ug/Kg) |
|--------------|--------------------------|--------------------------|
| Benzene      | 6.7                      | 1.8                      |
| Toluene      | 11.1                     | 1.7                      |
| Ethylbenzene | 13.9                     | 1.5                      |
| p,m-Xylene   | 45.4                     | 2.2                      |
| o-Xylene     | 19.1                     | 1.0                      |
| Total BTEX   | 96.2                     |                          |

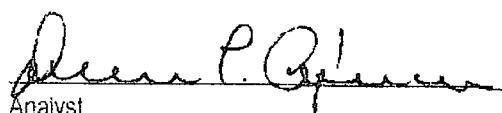
ND - Parameter not detected at the stated detection limit.

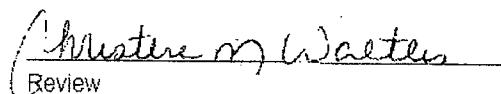
| Surrogate Recoveries: | Parameter           | Percent Recovery |
|-----------------------|---------------------|------------------|
|                       | Fluorobenzene       | 97.0 %           |
|                       | 1,4-difluorobenzene | 97.0 %           |
|                       | Bromochlorobenzene  | 97.0 %           |

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Chavez GC A #1 North Area

  
Debra P. Rogers  
Analyst

  
Master of Waters  
Review

# CHAIN OF CUSTODY RECORD

1996

| Client / Project Name<br><u>BLAGG/BP</u>          |                |                | Project Location<br><u>CHAVEZ GC A #1</u> |                     | ANALYSIS / PARAMETERS                          |                          |                          |                        |                     |           |               |
|---|----------------|----------------|---|---------------------|--|--------------------------|--------------------------|------------------------|---------------------|-----------|---------------|
| Sampler:<br><u>JEFF BLAGG</u>                     |                |                | Client No.<br><u>94034-010</u>            |                     | No. of Containers                              | TPH                      | <u>SOX</u>               | <u>STEX</u>            | <u>SO2</u>          | <u>CL</u> | Remarks       |
| Sample No./<br>Identification                     | Sample<br>Date | Sample<br>Time | Lab Number                                | Sample<br>Matrix    |  |                          |                          |                        |                     |           |               |
| (1) @ 9'  | 2-22-07        | 0955           | 40175                                     | SOIL                | 1  | X                        | X                        | X                      |                     |           | Normal Source |
| (2) @ 7'  | "              | 1015           | 40176                                     | "                   | 1  | X                        | X                        | X                      |                     |           | "             |
|   |                |                |   |                     |  |                          |                          |                        |                     |           |               |
|   |                |                |   |                     |  |                          |                          |                        |                     |           |               |
| Relinquished by: (Signature)<br><u>Jeff Blagg</u> |                |                | Date<br><u>2/22/07</u>                    | Time<br><u>1557</u> | Received by: (Signature)<br><u>Ruth Vanell</u> |                          |                          | Date<br><u>2/22/07</u> | Time<br><u>1557</u> |           |               |
| Relinquished by: (Signature)                      |                |                |   |                     | Received by: (Signature)                       |                          |                          |                        |                     |           |               |
| Relinquished by: (Signature)                      |                |                |   |                     | Received by: (Signature)                       |                          |                          |                        |                     |           |               |
| <b>ENVIROTECH INC.</b>                            |                |                |   |                     | Sample Receipt                                 |                          |                          |                        |                     |           |               |
|   |                |                |   |                     | Y  | N                        | N/A                      |                        |                     |           |               |
| Received Intact                                   |                |                |   |                     | <input checked="" type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |                        |                     |           |               |
| Cool - Ice/Blue Ice                               |                |                |   |                     | <input checked="" type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |                        |                     |           |               |

# CHAIN OF CUSTODY RECORD

221

| Client / Project Name<br><i>Benson JEF</i>   |                |                | Project Location<br><i>CHAVEZ GC A #1</i> |                  |   | ANALYSIS / PARAMETERS |     |        |     |     |      |                          |                                     |                                     |                             |                          |
|--|----------------|----------------|---|------------------|---|-----------------------|-----|--------|-----|-----|------|--------------------------|-------------------------------------|-------------------------------------|-----------------------------|--------------------------|
| Sampler:<br><i>John Benson</i>   |                |                | Client No.<br><i>94034-010</i>            |                  |   |                       |     |        |     |     |      | Remarks                  |                                     |                                     |                             |                          |
| Sample No./<br>Identification  | Sample<br>Date | Sample<br>Time | Lab Number                                | Sample<br>Matrix | No. of<br>Containers                                  | TPH                   | TDS | BTEX   | DOD | CCL | PCP  | PCB                      | PCN                                 | PCP                                 |                             |                          |
| (10) C 9   | 3/8/07         | 1010           | 40341                                     | SOIL             | 1   | X                     | X   | X      |     |     |      |                          |                                     |                                     | <i>No crete Source AREA</i> |                          |
| (10) C 7   | "              | 1016           | 40342                                     | "                | 1   | X                     | X   | X      |     |     |      |                          |                                     |                                     | "                           |                          |
| (10) C 3   | "              | 1022           | 40343                                     | "                | 1   | X                     | X   | X      |     |     |      |                          |                                     |                                     | "                           |                          |
|  |                |                |   |                  |   |                       |     |        |     |     |      |                          |                                     |                                     |                             |                          |
|  |                |                |   |                  |   |                       |     |        |     |     |      |                          |                                     |                                     |                             |                          |
|  |                |                |   |                  |   |                       |     |        |     |     |      |                          |                                     |                                     |                             |                          |
| Relinquished by: (Signature)<br><i>Jef Benson</i>  |                |                | Date                                      | Time             | Received by: (Signature)<br><i>Christine M Waller</i> |                       |     | Date   |     |     | Time |                          |                                     |                                     |                             |                          |
| Relinquished by: (Signature)   |                |                | 3/8/07                                    | 1642             | Received by: (Signature)<br><i>Christine M Waller</i> |                       |     | 3/8/07 |     |     | 1642 |                          |                                     |                                     |                             |                          |
| Relinquished by: (Signature)   |                |                | Received by: (Signature)                  |                  |   |                       |     |        |     |     |      |                          |                                     |                                     |                             |                          |
| <b>ENVIROTECH INC.</b><br>5796 U.S. Highway 64<br>Farmington, New Mexico 87401<br>(505) 632-0615 |                |                |   |                  |   |                       |     |        |     |     |      | Sample Receipt           |                                     |                                     |                             |                          |
|  |                |                |   |                  |   |                       |     |        |     |     |      | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>    |                          |
|  |                |                |   |                  |   |                       |     |        |     |     |      | Received Intact          |                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |
|  |                |                |   |                  |   |                       |     |        |     |     |      | Cool - Ice/Blue Ice      |                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>    | <input type="checkbox"/> |

# CHAIN OF CUSTODY RECORD

223 9

# CHAIN OF CUSTODY RECORD

2249

| Client / Project Name  |             |             | Project Location |               |      | ANALYSIS / PARAMETERS    |     |     |     |     |    |                                     |         |      |
|--|-------------|-------------|------------------|---------------|------|--------------------------|-----|-----|-----|-----|----|-------------------------------------|---------|------|
| BLAGO/BP   |             |             | CHAVEZ GC A # 1  |               |      | No. of Containers        | TPH | TDS | STX | TOC | CL | Remarks                             |         |      |
| Sampler:   | Client No.  |             |                  |               |      |                          |     |     |     |     |    |                                     |         |      |
| Sample No./Identification  | Sample Date | Sample Time | Lab Number       | Sample Matrix |      |                          |     |     |     |     |    |                                     |         |      |
| (13) @ 8'  | 3/16/07     | 1200        | 40526            | SOIL          | 1    | X                        | X   | X   |     |     |    | NORTH SOURCE AREA                   |         |      |
| (14) @ 8'  | "           | 1210        | 40527            | "             | 1    | X                        | X   | X   |     |     |    | "                                   |         |      |
| Relinquished by: (Signature)   |             |             |                  | Date          | Time | Received by: (Signature) |     |     |     |     |    |                                     | Date    | Time |
| <i>Jeff Blago</i>  |             |             |                  | 3/16/07       | 1507 | <i>Rich Null</i>         |     |     |     |     |    |                                     | 3/16/07 | 1507 |
| Relinquished by: (Signature)   |             |             |                  |               |      | Received by: (Signature) |     |     |     |     |    |                                     |         |      |
| Relinquished by: (Signature)   |             |             |                  |               |      | Received by: (Signature) |     |     |     |     |    |                                     |         |      |
| <br><b>ENVIROTECH INC.</b><br>5796 U.S. Highway 64<br>Farmington, New Mexico 87401<br>(505) 632-0615 |             |             |                  |               |      |                          |     |     |     |     |    | Sample Receipt                      |         |      |
|  |             |             |                  |               |      |                          |     |     |     |     |    | Y                                   | N       | N/A  |
|  |             |             |                  |               |      |                          |     |     |     |     |    | <input checked="" type="checkbox"/> |         |      |
|  |             |             |                  |               |      |                          |     |     |     |     |    | <input checked="" type="checkbox"/> |         |      |

# **CHAIN OF CUSTODY RECORD**

2305

|   |             |             |   |               |      |  |                       |     |      |         |      |                          |                                     |                          |                   |
|---|-------------|-------------|---|---------------|------|--|-----------------------|-----|------|---------|------|--------------------------|-------------------------------------|--------------------------|-------------------|
| Client / Project Name<br><i>Berry/BP</i>          |             |             | Project Location<br><i>CHAVEZ GC A #1</i> |               |      |  | ANALYSIS / PARAMETERS |     |      |         |      |                          |                                     |                          |                   |
| Sampler:<br><i>Jeff Baker</i>                     |             |             | Client No.<br><i>94034-010</i>            |               |      |  | No. of Containers     | TPH | BTEX | PCP     | SVOC | PCDD/F                   | PCDF                                | PCDD/F/PCDF              | Remarks           |
| Sample No./Identification                         | Sample Date | Sample Time | Lab Number                                | Sample Matrix |      |  |                       |     |      |         |      |                          |                                     |                          |                   |
| (5) 62  | 3/21/07     | 1110        | 40555                                     | SOIL          |      |  | 1                     | X   | X    | X       |      |                          |                                     |                          | North Source Area |
| (16) 63   | "           | 1117        | 40556                                     | "             |      |  | 1                     | X   | X    | X       |      |                          |                                     |                          | "                 |
|   |             |             |   |               |      |  |                       |     |      |         |      |                          |                                     |                          |                   |
| Relinquished by: (Signature)<br><i>Jeff Baker</i> |             |             |   | Date          | Time | Received by: (Signature)<br><i>John C. Quinn</i> |                       |     |      | Date    |      |                          |                                     | Time                     |                   |
| Relinquished by: (Signature)                      |             |             |   | 3/21/07       | 1234 | Received by: (Signature)                         |                       |     |      | 3/21/07 |      |                          |                                     | 1234                     |                   |
| Relinquished by: (Signature)                      |             |             |   |               |      | Received by: (Signature)                         |                       |     |      |         |      |                          |                                     |                          |                   |
| <b>ENVIROTECH INC.</b>                            |             |             |   |               |      |  |                       |     |      |         |      | Sample Receipt           |                                     |                          |                   |
|   |             |             |   |               |      |  |                       |     |      |         |      | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |                   |
|   |             |             |   |               |      |  |                       |     |      |         |      | Received Intact          | <input checked="" type="checkbox"/> |                          |                   |
|   |             |             |   |               |      |  |                       |     |      |         |      | Cool - Ice/Blue Ice      | <input checked="" type="checkbox"/> |                          |                   |

# CHAIN OF CUSTODY RECORD

2036

| Client / Project Name  |             |             | Project Location      |               |                          | ANALYSIS / PARAMETERS |      |      |      |  |                |                   |
|--|-------------|-------------|-----------------------|---------------|--------------------------|-----------------------|------|------|------|--|----------------|-------------------|
| <u>BLAGO/BP</u>  |             |             | <u>CHAVEZ GC A #1</u> |               |                          |                       |      |      |      |  |                |                   |
| Sampler:   |             |             | Client No.            |               |                          |                       |      |      |      |  |                | Remarks           |
| Jeff Blago   |             | 94034-010   |                       |               |                          |                       |      |      |      |  |                |                   |
| Sample No./Identification  | Sample Date | Sample Time | Lab Number            | Sample Matrix | No. of Containers        | TPT                   | 2015 | 30EX | 8021 | CCL  |                |                   |
| (17) eB  | 3/29/07     | 1205        | 406e67                | SOIL          | 1                        | x                     | x    | x    |      |  |                | North Source Area |
| (18) eB  | "           | 1211        | 406e68                | "             | 1                        | x                     | x    | x    |      |  |                | "                 |
| (19) eB  | "           | 1218        | 406e69                | "             | 1                        | x                     | x    | x    |      |  |                | "                 |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
| Relinquished by: (Signature)   |             |             | Date                  | Time          | Received by: (Signature) |                       |      |      |      |  | Date           | Time              |
| <u>Jeff Blago</u>  |             |             | <u>3/30/07</u>        | <u>0652</u>   | <u>Debra P. O'Brien</u>  |                       |      |      |      |  | <u>3/30/07</u> | <u>0652</u>       |
| Relinquished by: (Signature)   |             |             |                       |               | Received by: (Signature) |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
| Relinquished by: (Signature)   |             |             |                       |               | Received by: (Signature) |                       |      |      |      |  |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      |  |                |                   |
| <b>ENVIROTECH INC.</b><br>5796 U.S. Highway 64<br>Farmington, New Mexico 87401<br>(505) 632-0615 |             |             |                       |               |                          |                       |      |      |      | Sample Receipt   |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> N/A |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      | Received Intact <input checked="" type="checkbox"/>                                |                |                   |
|  |             |             |                       |               |                          |                       |      |      |      | Cool - Ice/Blue Ice <input checked="" type="checkbox"/>                            |                |                   |

# CHAIN OF CUSTODY RECORD

2420

|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|--|-------------|-------------|---|---------------|----------------|-----------------------|---|--------------|--|---------------------|---|----------------|--------------------|
| Client / Project Name<br><u>Blagg/BP</u>   |             |             | Project Location<br><u>CHAVEZ GC A #1</u> |               |                | ANALYSIS / PARAMETERS |   |              |  |                     |   |                |                    |
| Sampler:<br><u>JEFF Blagg</u>  |             |             | Client No.<br><u>94034-010</u>            |               |                | No. of Containers     | TPH<br>8015                                       | BTEX<br>8021 |  |                     |   |                | Remarks            |
| Sample No./ Identification   | Sample Date | Sample Time | Lab Number                                | Sample Matrix |                |                       |   |              |  |                     |   |                |                    |
| (2) @ 7'   | 4/4/07      | 0858        | 40732                                     | SOIL          | 1              | X                     | X   |              |  |                     |   |                | Normal Source Area |
| TH #9  | "           | 0910        | 40733                                     | "             | 1              | X                     | X   |              |  |                     |   |                | "                  |
| TH #10   | "           | 0914        | 40734                                     | "             | 1              | X                     | X   |              |  |                     |   |                | "                  |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  |                     |   |                |                    |
| Relinquished by: (Signature)<br><u>Jeff Blagg</u>  |             |             |   |               | Date<br>4/4/07 | Time<br>1405          | Received by: (Signature)<br><u>Allen P. Allen</u> |              |  |                     |   | Date<br>4/4/07 | Time<br>1405       |
| Relinquished by: (Signature)<br><u> </u>   |             |             |   |               |                |                       | Received by: (Signature)<br><u> </u>              |              |  |                     |   |                |                    |
| Relinquished by: (Signature)<br><u> </u>   |             |             |   |               |                |                       | Received by: (Signature)<br><u> </u>              |              |  |                     |   |                |                    |
| <b>ENVIROTECH INC.</b><br>5796 U.S. Highway 64<br>Farmington, New Mexico 87401<br>(505) 632-0615 |             |             |   |               |                |                       |   |              |  | Sample Receipt      |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  | Y                   | N | N/A            |                    |
|  |             |             |   |               |                |                       |   |              |  | X                   |   |                |                    |
|  |             |             |   |               |                |                       |   |              |  | Received Intact     | X |                |                    |
|  |             |             |   |               |                |                       |   |              |  | Cool - Ice/Blue Ice | X |                |                    |

# CHAIN OF CUSTODY RECORD

2482

| Client / Project Name                                   |             | Project Location |            | ANALYSIS / PARAMETERS |                          |               |                          | Remarks    |
|---|-------------|------------------|------------|-----------------------|--------------------------|---------------|--------------------------|------------|
| BLASS/BP  |             | CHAVEZ GC A#1    |            | No. of Containers     | TPH<br>80/15             | BTEX<br>80/21 |                          |            |
| Sampler:  | JEFF BLASS  | Client No.:      | 94034-010  |                       |                          |               |                          |            |
| Sample No./Identification                               | Sample Date | Sample Time      | Lab Number | Sample Matrix         |                          |               |                          |            |
| (2) C 8-9'  | 4/13/07     | 1415             | 41025      | SOIL                  | 1                        | X X           |                          | NORTH AREA |
| (2) C 8-9'  | "           | 1420             | 41026      | "                     | 1                        | X X           |                          | "          |
| TH 12 C 8-9'  | "           | 1446             | 41027      | "                     | 1                        | X X           |                          | "          |
| TH 13 C 8-9'  | "           | 1459             | 41028      | "                     | 1                        | X X           |                          | "          |
| TH #14 C 8-9'   | 4/13/07     | 0825             | 41029      | "                     | 1                        | X X           |                          | "          |
|   |             |                  |            |                       |                          |               |                          |            |
|   |             |                  |            |                       |                          |               |                          |            |
|   |             |                  |            |                       |                          |               |                          |            |
| Relinquished by: (Signature)                            |             |                  |            |                       | Date                     | Time          | Received by: (Signature) | Date       |
| <i>Jeff Blagg</i>                                       |             |                  |            |                       | 4/13/07                  | 1330          | <i>Allen P. Green</i>    | 4/13/07    |
| Relinquished by: (Signature)                            |             |                  |            |                       | Received by: (Signature) |               |                          | Time       |
| <i>Jeff Blagg</i>                                       |             |                  |            |                       | <i>Allen P. Green</i>    |               |                          | 1330       |
| Relinquished by: (Signature)                            |             |                  |            |                       | Received by: (Signature) |               |                          |            |
| <i>Jeff Blagg</i>                                       |             |                  |            |                       |                          |               |                          |            |
| ENVIROTECH INC.   |             |                  |            |                       |                          |               |                          |            |
| 5796 U.S. Highway 64                                    |             |                  |            |                       |                          |               |                          |            |
| Farmington, New Mexico 87401                            |             |                  |            |                       |                          |               |                          |            |
| (505) 632-0615  |             |                  |            |                       |                          |               |                          |            |
| Sample Receipt  |             |                  |            |                       |                          |               |                          |            |
| Y N N/A   |             |                  |            |                       |                          |               |                          |            |
| Received Intact <input checked="" type="checkbox"/>     |             |                  |            |                       |                          |               |                          |            |
| Cool - Ice/Blue Ice <input checked="" type="checkbox"/> |             |                  |            |                       |                          |               |                          |            |

# ENVIROTECH LABS

AN ISO 9001:2000 REGISTERED COMPANY

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 02 26 07 QA/QC     | Date Reported:      | 02-26-07 |
| Laboratory Number: | 40174              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 02-26-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 1.3013E+003 | 1.3026E+003 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 1.4456E+003 | 1.4485E+003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 47.9   | 47.6      | 0.6%         | 0 - 30%       |
| Diesel Range C10 - C28  | 122    | 121       | 0.6%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 47.9   | 250         | 297          | 99.8%      | 75 - 125%     |
| Diesel Range C10 - C28  | 122    | 250         | 372          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments: QA/QC for Samples 40174 - 40180 and 40182

*Christine M. Weeler*  
Analyst

*Ruth Van Allen*  
Review

# ENVIROTECH LABS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 02-28-07 QA/QC     | Date Reported:      | 02-28-07 |
| Laboratory Number: | 40191              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 02-28-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 1.6567E-003 | 1.6583E-003 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 1.8763E+003 | 1.8791E-003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 1.0    | 1.0       | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | 4.6    | 4.5       | 2.2%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 1.0    | 250         | 249          | 99.2%      | 75 - 125%     |
| Diesel Range C10 - C28  | 4.6    | 250         | 245          | 96.1%      | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40191, 40193 - 40194 and 40210.

*Christine M. Waeter*  
Analyst

*Blair D. Vanell*  
Review

# ENVIROTECH LABS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 03-12-07 QA/QC     | Date Reported:      | 03-12-07 |
| Laboratory Number: | 40340              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 03-12-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF:   | C-Cal RF:   | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 1.0013E+003 | 1.0023E+003 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-06   | 1.0014E+003 | 1.0034E+003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 98.9   | 98.4      | 0.5%         | 0 - 30%       |
| Diesel Range C10 - C28  | 524    | 521       | 0.6%         | 0 - 30%       |

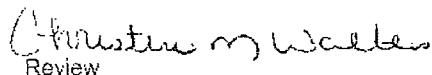
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 98.9   | 250         | 348          | 99.7%      | 75 - 125%     |
| Diesel Range C10 - C28  | 524    | 250         | 773          | 99.9%      | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40340 - 40343

  
Analyst

  
Review

# ENVIROTECH LABS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 03-15-07 QA/QC     | Date Reported:      | 03-15-07 |
| Laboratory Number: | 40502              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 03-15-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 9.9997E-002 | 1.0010E+003 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 1.0037E-003 | 1.0057E+003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | ND     | ND        | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | 13.2   | 13.1      | 0.8%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | ND     | 250         | 249          | 99.6%      | 75 - 125%     |
| Diesel Range C10 - C28  | 13.2   | 250         | 262          | 99.6%      | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40502 - 40503, 40505 - 40507

*Dee C. Green*  
Analyst

*Mistine M. Wauters*  
Review

# ENVIROTECH LABS

**EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons**

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 03-20-07 . QA/QC   | Date Reported:      | 03-20-07 |
| Laboratory Number: | 40525              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 03-20-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF:   | C-Cal RF:   | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 9.9802E+002 | 9.9902E+002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 1.0017E+003 | 1.0037E+003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range: C5 - C10     | ND            | 0.2             |
| Diesel Range: C10 - C28      | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | ND     | ND        | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | ND     | 250         | 250          | 100.0%     | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit

References: Method 8C15B, Nonhalogenated Volatile Organics. Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.

Comments: QA/QC for Samples 40525 - 40533, 40538

  
Alan P. Glew  
Analyst

Christine M. Walters  
Review

# ENVIROTECH LABS

ENVIRONMENTAL CONSULTING AND ANALYTICAL SERVICES

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                       |                     |          |
|--------------------|-----------------------|---------------------|----------|
| Client:            | QA/QC                 | Project #:          | N/A      |
| Sample ID:         | 03-22-07 QA/QC        | Date Reported:      | 03-22-07 |
| Laboratory Number: | 40550                 | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylchloro Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                   | Date Analyzed:      | 03-22-07 |
| Condition:         | N/A                   | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 9.9712E+002 | 9.9812E+002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 1.0016E+003 | 1.0036E+003 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | 0.5    | 0.5       | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

| Spiked Conc. (mg/Kg)    | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | 0.5    | 250         | 250          | 99.8%      | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USFPA, December 1996.

Comments: QA/QC for Samples 40550 - 40557

*Dee C. Apuzzo*  
Analyst

*Christine M. Walters*  
Review

# ENVIROTECH LABS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

| Client:                      | QA/QC                  | Project #:               | N/A                      |                        |                           |
|------------------------------|------------------------|--------------------------|--------------------------|------------------------|---------------------------|
| Sample ID:                   | 04-02-07 QA/QC         | Date Reported:           | 04-02-07                 |                        |                           |
| Laboratory Number:           | 40646                  | Date Sampled:            | N/A                      |                        |                           |
| Sample Matrix:               | Methylene Chloride     | Date Received:           | N/A                      |                        |                           |
| Preservative:                | N/A                    | Date Analyzed:           | 04-02-07                 |                        |                           |
| Condition:                   | N/A                    | Analysis Requested:      | TPH                      |                        |                           |
| Gasoline Range C5 - C10      | I-Cal Date<br>07-11-05 | I-Cal RF:<br>9.9358E+002 | C-Cal RF:<br>9.9458E+002 | % Difference:<br>0.10% | Accept. Range:<br>0 - 15% |
| Diesel Range C10 - C28       | 07-11-05               | 9.9936E+002              | 1.0014E+003              | 0.20%                  | 0 - 15%                   |
| Blank Conc. (mg/L - mg/Kg)   | Concentration          |                          |                          | Detection Limit        |                           |
| Gasoline Range C5 - C10      | ND                     |                          |                          | 0.2                    |                           |
| Diesel Range C10 - C28       | ND                     |                          |                          | 0.1                    |                           |
| Total Petroleum Hydrocarbons | ND                     |                          |                          | 0.2                    |                           |
| Duplicate Conc. (mg/Kg)      | Sample                 | Duplicate                | % Difference             | Accept. Range          |                           |
| Gasoline Range C5 - C10      | ND                     | ND                       | 0.0%                     | 0 - 30%                |                           |
| Diesel Range C10 - C28       | 313                    | 312                      | 0.6%                     | 0 - 30%                |                           |
| Spike Conc. (mg/Kg)          | Sample                 | Spike Added              | Spike Result             | % Recovery             | Accept. Range             |
| Gasoline Range C5 - C10      | ND                     | 250                      | 250                      | 100.0%                 | 75 - 125%                 |
| Diesel Range C10 - C28       | 313                    | 250                      | 562                      | 99.8%                  | 75 - 125%                 |

ND - Parameter not detected at the stated detection limit.

References: Method A015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40646 - 40647, 40663 - 40669

*Dee P. Ahern*  
Analyst

*Christine M. Wailes*  
Review

# ENVIROTECH LABS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 04-06-07 QA/QC     | Date Reported:      | 04-06-07 |
| Laboratory Number: | 40732              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 04-06-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

| Range                   | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 9.9324E+002 | 9.9423E+002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 9.9301E+002 | 9.9500E+002 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range C5 - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | ND     | ND        | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

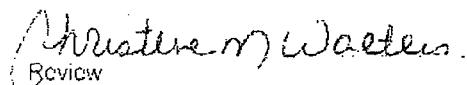
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | ND     | 250         | 250          | 100.0%     | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 249          | 99.8%      | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 40732 - 40734, 40755 - 40757

  
Analyst

  
Review

# ENVIROTECH LABS

ENVIRONMENTAL MONITORING AND ANALYSIS

EPA Method 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

## Quality Assurance Report

|                    |                    |                     |          |
|--------------------|--------------------|---------------------|----------|
| Client:            | QA/QC              | Project #:          | N/A      |
| Sample ID:         | 04-16-07 QA/QC     | Date Reported:      | 04-16-07 |
| Laboratory Number: | 41005              | Date Sampled:       | N/A      |
| Sample Matrix:     | Methylene Chloride | Date Received:      | N/A      |
| Preservative:      | N/A                | Date Analyzed:      | 04-16-07 |
| Condition:         | N/A                | Analysis Requested: | TPH      |

|                         | I-Cal Date | I-Cal RF    | C-Cal RF    | % Difference | Accept. Range |
|-------------------------|------------|-------------|-------------|--------------|---------------|
| Gasoline Range C5 - C10 | 07-11-05   | 9.9390E+002 | 9.9489E+002 | 0.10%        | 0 - 15%       |
| Diesel Range C10 - C28  | 07-11-05   | 9.9750E+002 | 9.9950E+002 | 0.20%        | 0 - 15%       |

| Blank Conc. (mg/L - mg/Kg)   | Concentration | Detection Limit |
|------------------------------|---------------|-----------------|
| Gasoline Range CS - C10      | ND            | 0.2             |
| Diesel Range C10 - C28       | ND            | 0.1             |
| Total Petroleum Hydrocarbons | ND            | 0.2             |

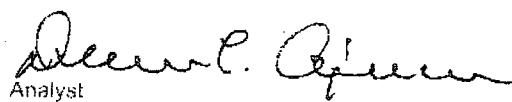
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range |
|-------------------------|--------|-----------|--------------|---------------|
| Gasoline Range C5 - C10 | ND     | ND        | 0.0%         | 0 - 30%       |
| Diesel Range C10 - C28  | ND     | ND        | 0.0%         | 0 - 30%       |

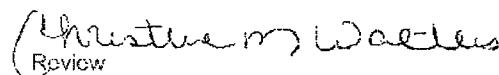
| Spike Conc. (mg/Kg)     | Sample | Spike Added | Spike Result | % Recovery | Accept. Range |
|-------------------------|--------|-------------|--------------|------------|---------------|
| Gasoline Range C5 - C10 | ND     | 250         | 250          | 100.0%     | 75 - 125%     |
| Diesel Range C10 - C28  | ND     | 250         | 250          | 100.0%     | 75 - 125%     |

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 41005, 41023 - 41029

  
Deewen L. Queen  
Analyst

  
Christine M. Walker  
Review

# ENVIROTECH LABS

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 02-26-BTEX QA/QC | Date Reported: | 02-26-07 |
| Laboratory Number: | 40174            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 02-26-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF    | C-Cal RF    | %Diff. | Blank Conc. | Detect. Limit |
|---|-------------|-------------|--------|-------------|---------------|
| Benzene                                 | 3.1113E+007 | 3.1178E+007 | 0.2%   | ND          | 0.2           |
| Toluene                                 | 5.0741E+007 | 5.0823E+007 | 0.2%   | ND          | 0.2           |
| Ethylbenzene                            | 2.3975E+007 | 2.4028E+007 | 0.2%   | ND          | 0.2           |
| p,m-Xylene                              | 1.0285E+008 | 1.0405E+008 | 0.2%   | ND          | 0.2           |
| o-Xylene                                | 4.8696E+007 | 4.8992E+007 | 0.2%   | ND          | 0.1           |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 58.4   | 57.4      | 1.7%   | 0 - 30%      | 1.8           |
| Toluene                 | 80.0   | 79.0      | 1.3%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 90.0   | 89.0      | 1.1%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 900    | 900       | 0.0%   | 0 - 30%      | 2.2           |
| o-Xylene                | 130    | 127       | 2.3%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 58.4   | 50.0          | 108           | 99.7%      | 39 - 150     |
| Toluene             | 80.0   | 50.0          | 120           | 92.3%      | 46 - 148     |
| Ethylbenzene        | 90.0   | 50.0          | 130           | 92.9%      | 32 - 160     |
| p,m-Xylene          | 900    | 100           | 990           | 99.0%      | 46 - 148     |
| o-Xylene            | 130    | 50.0          | 170           | 94.4%      | 46 - 148     |

ND - Parameter not detected at the stated detection limit

References:  
 Method 5030B: Purge and Trap Test Methods for Evaluating Solid Waste. SW-846, USEPA December 1996.  
 Method 8021B: Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors. SW-846 USEPA December 1996.

Comments: QA/QC for Samples 40174 - 40178 and 40182

Christine M. Wacker  
Analyst

Christie Wacker  
Review

# ENVIROTECH LABS

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 02-28-BTEX QA/QC | Date Reported: | 02-28-07 |
| Laboratory Number: | 40189            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 02-28-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF:   | C-Cal RF:   | %Diff.                | Blank Conc | Detect. Limit |
|---|-------------|-------------|-----------------------|------------|---------------|
|   |             |             | Accept. Range 0 - 15% |            |               |
| Benzene                                 | 2.5006E+007 | 2.5958E+007 | 0.2%                  | ND         | 0.2           |
| Toluene                                 | 3.6223E+007 | 3.6296E+007 | 0.2%                  | ND         | 0.2           |
| Ethylbenzene                            | 1.9182E+007 | 1.9321E+007 | 0.2%                  | ND         | 0.2           |
| p,m-Xylene                              | 7.6713E+007 | 7.5866E+007 | 0.2%                  | ND         | 0.2           |
| o-Xylene                                | 3.2484E+007 | 3.2629E+007 | 0.2%                  | ND         | 0.1           |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 29.6   | 28.6      | 3.4%   | 0 - 30%      | 1.8           |
| Toluene                 | 18.0   | 17.0      | 5.5%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 33.4   | 32.4      | 3.0%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 137    | 136       | 0.7%   | 0 - 30%      | 2.2           |
| o-Xylene                | 51.4   | 50.4      | 1.9%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 29.6   | 50.0          | 79.3          | 98.6%      | 39 - 150     |
| Toluene             | 18.0   | 50.0          | 65.0          | 95.6%      | 46 - 148     |
| Ethylbenzene        | 33.4   | 50.0          | 75.0          | 89.9%      | 32 - 160     |
| p,m-Xylene          | 137    | 100           | 230           | 97.1%      | 46 - 148     |
| o-Xylene            | 51.4   | 50.0          | 90.0          | 88.8%      | 46 - 148     |

ND : Parameter not detected at the stated detection limit.

References: Method 5030B: Purge-and-Trap Test Methods for Evaluating Soils/Waste, SW-846, USEPA, December 1998.  
Method 8321B: Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1998.

Comments: QA/QC for Samples 40189 - 40191, 40193 - 40194 and 40210.

Christine M. Wallen  
Analyst

Robert J. Van Slyeck  
Review

# ENVIROTECH LABS

ENVIRONMENTAL MONITORING & ANALYSIS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 03-12-BTEX QA/QC | Date Reported: | 03-12-07 |
| Laboratory Number: | 40340            | Date Sampled:  | N/A      |
| Sample Matrix:     | Solid            | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 03-12-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF    | C-Cal RF    | %Diff. | Blank Conc. | Detect. Limit |
|---|-------------|-------------|--------|-------------|---------------|
| Benzene                                 | 2.2130E+007 | 2.2175E+007 | 0.2%   | ND          | 0.2           |
| Toluene                                 | 5.6147E+007 | 5.6250E+007 | 0.2%   | ND          | 0.2           |
| Ethylbenzene                            | 2.7960E+007 | 2.8018E+007 | 0.2%   | ND          | 0.2           |
| p,m-Xylene                              | 1.2048E+008 | 1.2070E+008 | 0.2%   | ND          | 0.2           |
| o-Xylene                                | 5.6883E+007 | 5.6987E+007 | 0.2%   | ND          | 0.1           |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 13.5   | 13.4      | 0.7%   | 0 - 30%      | 1.8           |
| Toluene                 | 118    | 117       | 0.8%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 118    | 119       | 0.8%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 1,150  | 1,140     | 0.9%   | 0 - 30%      | 2.2           |
| o-Xylene                | 228    | 229       | 0.4%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 13.5   | 50.0          | 63.4          | 99.8%      | 39 - 150     |
| Toluene             | 118    | 50.0          | 167           | 99.3%      | 46 - 148     |
| Ethylbenzene        | 118    | 50.0          | 168           | 99.9%      | 32 - 160     |
| p,m-Xylene          | 1,150  | 100           | 1,240         | 99.2%      | 46 - 148     |
| o-Xylene            | 228    | 50.0          | 276           | 99.5%      | 46 - 148     |

ND = Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Cap, Test Methods for Evaluating Solid Waste, SW 846, USEPA, December 1996.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 40340 + 40343

Dee P. Price  
Analyst

Christine M. Weeler  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 03-15-BTEX QA/QC | Date Reported: | 03-15-07 |
| Laboratory Number: | 40502            | Date Sampled:  | N/A      |
| Sample Matrix:     | Solid            | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 03-15-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF:   | C-Cal RF:             | %Diff. | Blank Conc. | Detect. Limit. |
|---|-------------|-----------------------|--------|-------------|----------------|
|   |             | Accept. Range 0 - 15% |        |             |                |
| Benzene                                 | 2.8904E+007 | 2.8962E+007           | 0.2%   | ND          | 0.2            |
| Toluene                                 | 5.6045E+007 | 5.6157E+007           | 0.2%   | ND          | 0.2            |
| Ethylbenzene                            | 2.6952E+007 | 2.7016E+007           | 0.2%   | ND          | 0.2            |
| p,m-Xylene                              | 1.1803E+008 | 1.1827E+008           | 0.2%   | ND          | 0.2            |
| o-Xylene                                | 5.5413E+007 | 5.5524E+007           | 0.2%   | ND          | 0.1            |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | ND     | ND        | 0.0%   | 0 - 30%      | 1.8           |
| Toluene                 | 2.8    | 2.8       | 0.0%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 5.1    | 5.1       | 0.0%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 25.8   | 25.9      | 0.4%   | 0 - 30%      | 2.2           |
| o-Xylene                | 8.1    | 8.1       | 0.0%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | ND     | 50.0          | 49.9          | 99.8%      | 39 - 150     |
| Toluene             | 2.8    | 50.0          | 52.7          | 99.8%      | 46 - 148     |
| Ethylbenzene        | 5.1    | 50.0          | 55.1          | 100.0%     | 32 - 160     |
| p,m-Xylene          | 25.8   | 100           | 125           | 99.7%      | 46 - 148     |
| o-Xylene            | 8.1    | 50.0          | 58.0          | 99.8%      | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References:  
 Method 5030B Purge-and-Trap; Test Methods for Evaluating Solid Waste, SW-846 USEPA, December 1995.  
 Method 8021B Aromatic and Halogenated Volatiles by Gas Chromatography Using Proportional Ionization: Proportional Conductivity Detection, SW-846, USEPA December 1996

Comments: QA/QC for Samples 40502 - 40503, 40505 - 40506

Debra P. Queen  
Analyst

Maurice M. Walters  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 03-20-BTEX QA/QC | Date Reported: | 03-20-07 |
| Laboratory Number: | 40525            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 03-20-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and<br>Detection Limits (ug/L) | I-Cal RF              | C-Cal RF    | %Diff. | Blank<br>Conc | Detect.<br>Limit |
|--|-----------------------|-------------|--------|---------------|------------------|
|  | Accept. Range 0 - 15% |             |        |               |                  |
| Benzene                                    | 2.8229E+007           | 2.5246E+007 | 0.2%   | ND            | 0.2              |
| Toluene                                    | 3.8388E+007           | 3.5466E+007 | 0.2%   | ND            | 0.2              |
| Ethylbenzene                               | 2.0973E+007           | 2.0317E+007 | 0.2%   | ND            | 0.2              |
| p,m-Xylene                                 | 6.2593E+007           | 6.2761E+007 | 0.2%   | ND            | 0.2              |
| o-Xylene                                   | 3.4799E+007           | 3.4868E+007 | 0.2%   | ND            | 0.1              |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 2.0    | 2.0       | 0.0%   | 0 - 30%      | 1.8           |
| Toluene                 | 4.0    | 3.8       | 5.0%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 5.2    | 5.0       | 3.8%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 19.9   | 19.7      | 1.0%   | 0 - 30%      | 2.2           |
| o-Xylene                | 13.7   | 13.5      | 1.5%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 2.0    | 50.0          | 51.9          | 99.8%      | 39 - 150     |
| Toluene             | 4.0    | 50.0          | 53.9          | 99.8%      | 46 - 148     |
| Ethylbenzene        | 5.2    | 50.0          | 55.1          | 99.8%      | 32 - 160     |
| p,m-Xylene          | 19.9   | 100           | 119           | 99.6%      | 46 - 148     |
| o-Xylene            | 13.7   | 50.0          | 63.7          | 100.0%     | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References:  
 Method 6030B, Purge and Trap Test Method for Evaluating Solid Waste, SW-846, USEPA, December 1991.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 40525 - 40527, 40534, 40538

Debra L. Oliver  
Analyst

Christie M. Wootton  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 03-22-BTEX QA/QC | Date Reported: | 03-22-07 |
| Laboratory Number: | 40550            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Rec'd:    | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 03-22-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF:   | C-Cal RF:   | %Diff. | Blank Conc | Detect. Limit |
|---|-------------|-------------|--------|------------|---------------|
| Benzene                                 | 3.2469E+007 | 3.2556E+007 | 0.2%   | ND         | 0.2           |
| Toluene                                 | 6.3766E+007 | 5.3894E+007 | 0.2%   | ND         | 0.2           |
| Ethylbenzene                            | 2.2001E+007 | 2.2045E+007 | 0.2%   | ND         | 0.2           |
| p,m-Xylene                              | 1.0419E+008 | 1.0440E+008 | 0.2%   | ND         | 0.2           |
| o-Xylene                                | 4.9874E+007 | 4.9974E+007 | 0.2%   | ND         | 0.1           |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 23.5   | 23.5      | 0.0%   | 0 - 30%      | 1.8           |
| Toluene                 | 70.0   | 69.9      | 0.1%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 54.7   | 54.6      | 0.2%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 132    | 131       | 0.4%   | 0 - 30%      | 2.2           |
| o-Xylene                | 48.8   | 48.7      | 0.2%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 23.5   | 50.0          | 73.4          | 99.9%      | 39 - 150     |
| Toluene             | 70.0   | 50.0          | 119           | 99.5%      | 46 - 148     |
| Ethylbenzene        | 54.7   | 50.0          | 104           | 99.7%      | 32 - 160     |
| p,m-Xylene          | 132    | 100           | 231           | 99.7%      | 46 - 148     |
| o-Xylene            | 48.8   | 50.0          | 98.6          | 99.8%      | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References:  
 Method 5030B, Purge and Trap, Test Methods for Evaluating Soils Wastes, SW-846, USEPA, December 1996.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 40550 - 40557

Allen P. Jensen  
Analyst

Christine M. Wallen  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 04-02-BTEX QA/QC | Date Reported: | 04-02-07 |
| Laboratory Number: | 40663            | Date Sampled:  | N/A      |
| Sample Matrix:     | Sci.             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 04-02-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF    | C-Cal RF    | %Diff.<br>Accept. Range 0 - 15% | Blank Conc | Detect. Limit |
|---|-------------|-------------|---------------------------------|------------|---------------|
| Benzene                                 | 1.1949E+007 | 1.1973E+007 | 0.2%                            | ND         | 0.2           |
| Toluene                                 | 1.9147E+007 | 1.9166E+007 | 0.2%                            | ND         | 0.2           |
| Ethylbenzene                            | 9.3996E+006 | 9.4154E+006 | 0.2%                            | ND         | 0.2           |
| p,m-Xylene                              | 4.3783E+007 | 4.3871E+007 | 0.2%                            | ND         | 0.2           |
| o-Xylene                                | 1.8334E+007 | 1.8371E+007 | 0.2%                            | ND         | 0.1           |

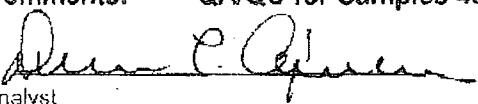
| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | ND     | ND        | 0.0%   | 0 - 30%      | 1.8           |
| Toluene                 | ND     | ND        | 0.0%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 3.5    | 3.5       | 0.0%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 23.5   | 23.3      | 0.9%   | 0 - 30%      | 2.2           |
| o-Xylene                | 9.7    | 9.6       | 1.0%   | 0 - 30%      | 1.0           |

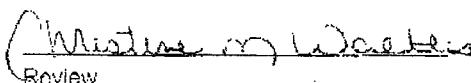
| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | ND     | 50.0          | 49.9          | 99.8%      | 39 - 150     |
| Toluene             | ND     | 50.0          | 50.0          | 100.0%     | 46 - 148     |
| Ethylbenzene        | 3.5    | 50.0          | 53.4          | 99.8%      | 32 - 160     |
| p,m-Xylene          | 23.5   | 100           | 123           | 99.9%      | 46 - 148     |
| o-Xylene            | 9.7    | 50.0          | 59.7          | 100.0%     | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References: Method 8030B, Purge-and-Trap Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 40663 - 40669

  
Analyst

  
Review

# ENVIROTECH LABS

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 04-06-BTEX QA/QC | Date Reported: | 04-06-07 |
| Laboratory Number: | 40732            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 04-06-07 |
| Condition:         | N/A              | Analysis:      | BTEX     |

| Calibration and<br>Detection Limits (ug/L) | I-Cal RF    | C-Cal RF      | %Diff.  | Blank | Detect.<br>Limit |
|--|-------------|---------------|---------|-------|------------------|
|  |             | Accept. Range | 0 - 15% | Conc  |                  |
| Benzene                                    | 1.1536E+007 | 1.1609E+007   | 0.2%    | ND    | 0.2              |
| Toluene                                    | 1.8866E+007 | 1.6609E+007   | 0.2%    | ND    | 0.2              |
| Ethylbenzene                               | 7.4723E+006 | 7.4872E+006   | 0.2%    | ND    | 0.2              |
| p,m-Xylene                                 | 3.9594E+007 | 3.9674E+007   | 0.2%    | ND    | 0.2              |
| o-Xylene                                   | 1.7021E+007 | 1.7059E+007   | 0.2%    | ND    | 0.1              |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | ND     | ND        | 0.0%   | 0 - 30%      | 1.8           |
| Toluene                 | 3.7    | 3.7       | 0.0%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 14.2   | 14.2      | 0.0%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 42.9   | 43.0      | 0.2%   | 0 - 30%      | 2.2           |
| o-Xylene                | 34.0   | 33.9      | 0.3%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | ND     | 50.0          | 49.9          | 99.8%      | 39 - 150     |
| Toluene             | 3.7    | 50.0          | 53.7          | 100.0%     | 46 - 148     |
| Ethylbenzene        | 14.2   | 50.0          | 64.1          | 99.8%      | 32 - 160     |
| p,m-Xylene          | 42.9   | 100           | 142           | 99.7%      | 46 - 148     |
| o-Xylene            | 34.0   | 50.0          | 83.8          | 99.8%      | 46 - 148     |

ND - Parameter not detected at the stated detection limit.

References:  
 Method 5030B, Purge-and-Trap, Test Method for Evaluating Solid Waste, SW-846, USEPA, December 1986.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1993.

Comments: QA/QC for Samples 40732 - 40734, 40752 - 40757

Dee C. Green  
Analyst

Matthew M. Waller  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS

|                    |                  |                |          |
|--------------------|------------------|----------------|----------|
| Client:            | N/A              | Project #:     | N/A      |
| Sample ID:         | 04-16-STEX QA/QC | Date Reported: | 04-16-07 |
| Laboratory Number: | 41005            | Date Sampled:  | N/A      |
| Sample Matrix:     | Soil             | Date Received: | N/A      |
| Preservative:      | N/A              | Date Analyzed: | 04-16-07 |
| Condition:         | N/A              | Analysis:      | STEX     |

| Calibration and Detection Limits (ug/L) | I-Cal RF:   | C-Cal RF:   | %Diff. | Blank Conc | Detect. Limit |
|---|-------------|-------------|--------|------------|---------------|
| Benzene                                 | 3.2598E+007 | 3.2663E+007 | 0.2%   | ND         | 0.2           |
| Toluene                                 | 3.9192E+007 | 3.9270E+007 | 0.2%   | ND         | 0.2           |
| Ethylbenzene                            | 1.9999E+007 | 2.0039E+007 | 0.2%   | ND         | 0.2           |
| p,m-Xylene                              | 7.1658E+007 | 7.1301E+007 | 0.2%   | ND         | 0.2           |
| o-Xylene                                | 3.0163E+007 | 3.0223E+007 | 0.2%   | ND         | 0.1           |

| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | Accept Range | Detect. Limit |
|-------------------------|--------|-----------|--------|--------------|---------------|
| Benzene                 | 12.8   | 12.7      | 0.8%   | 0 - 30%      | 1.8           |
| Toluene                 | 15.1   | 15.0      | 0.7%   | 0 - 30%      | 1.7           |
| Ethylbenzene            | 3.3    | 3.3       | 0.0%   | 0 - 30%      | 1.5           |
| p,m-Xylene              | 28.3   | 28.2      | 0.4%   | 0 - 30%      | 2.2           |
| o-Xylene                | 9.7    | 9.7       | 0.0%   | 0 - 30%      | 1.0           |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene             | 12.8   | 50.0          | 62.7          | 99.8%      | 39 - 150     |
| Toluene             | 15.1   | 50.0          | 65.0          | 99.8%      | 46 - 148     |
| Ethylbenzene        | 3.3    | 50.0          | 53.3          | 100.0%     | 32 - 160     |
| p,m-Xylene          | 28.3   | 100           | 128           | 99.8%      | 46 - 148     |
| o-Xylene            | 9.7    | 50.0          | 59.6          | 99.8%      | 46 - 148     |

ND = Parameter not detected at the stated detection limit.

References:  
 Method 503CB, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

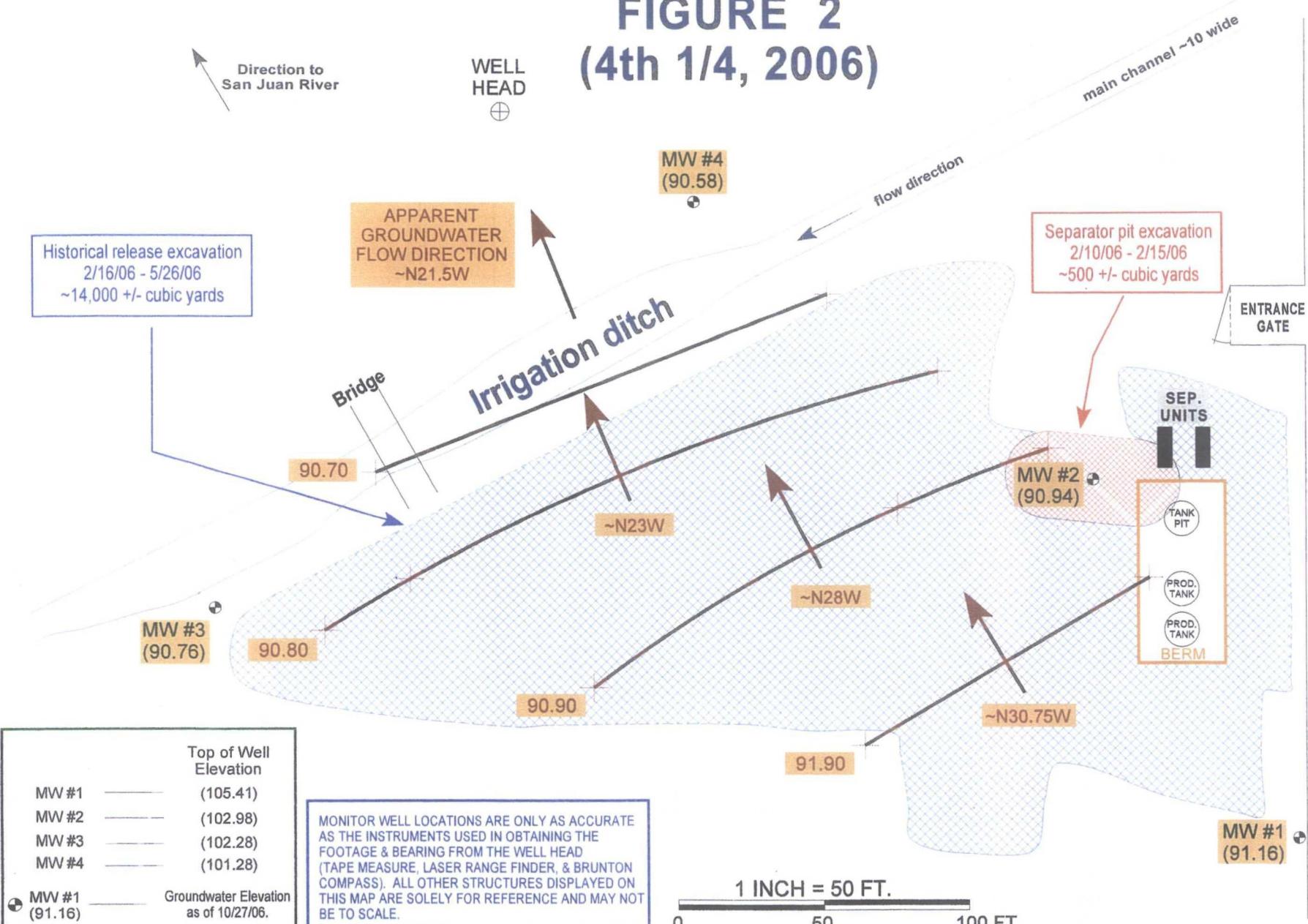
Comments: QA/QC for Samples 41005, 41023 - 41029

Dee C. Queen  
Analyst

Christine M. Walters  
Review

# FIGURE 2

(4th 1/4, 2006)



BP AMERICA PRODUCTION CO.

CHAVEZ GC A # 1

SW/4 NE/4 SEC. 3, T29N, R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 10-27-06-GW.SKF

REVISED: 10-27-06 NJV

GROUNDWATER

GRADIENT

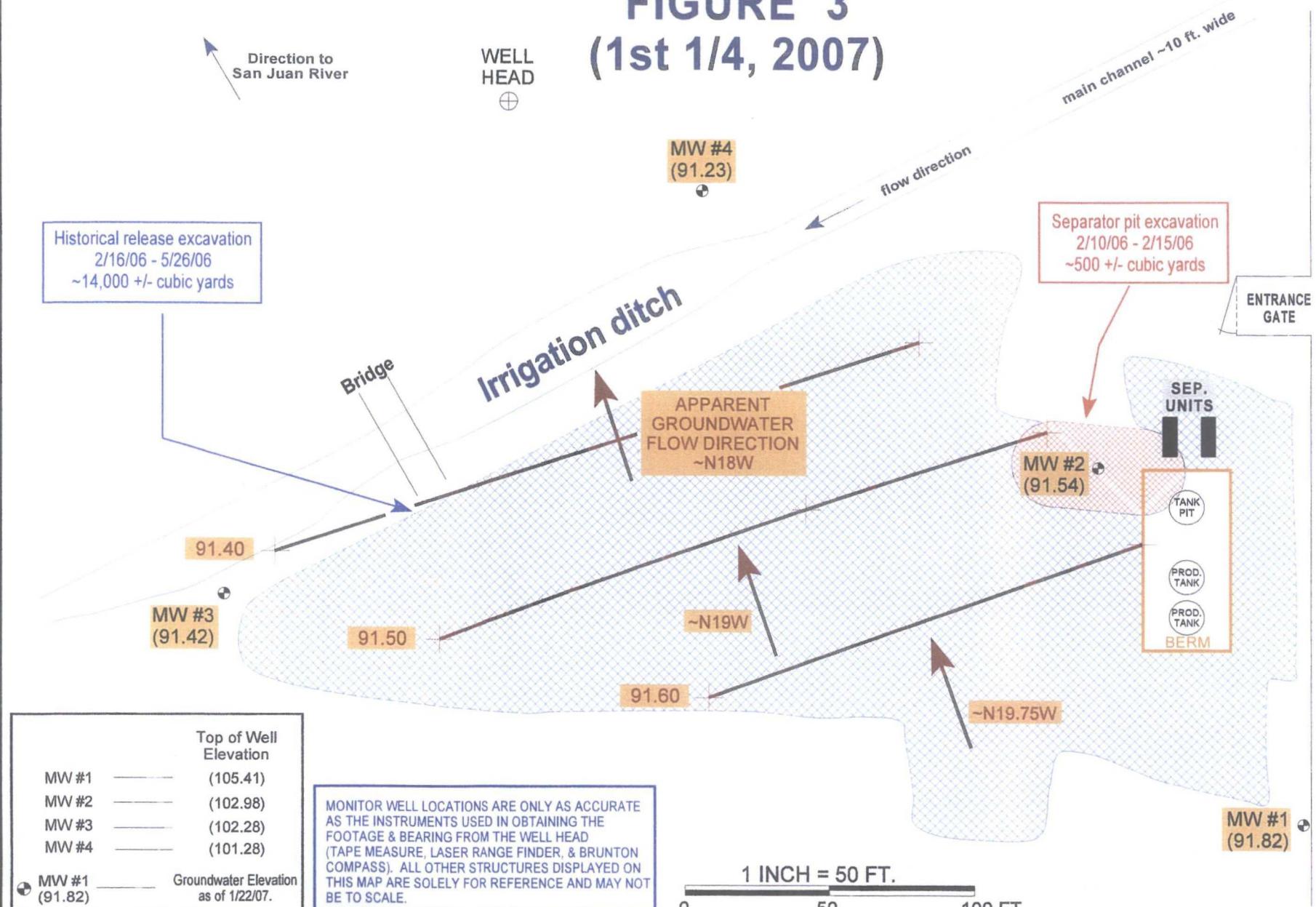
MAP

10/06

# FIGURE 3 (1st 1/4, 2007)



A  
C  
C  
E  
S  
  
R  
O  
A  
D



BP AMERICA PRODUCTION CO.

CHAVEZ GC A # 1

SW/4 NE/4 SEC. 3, T29N, R9W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

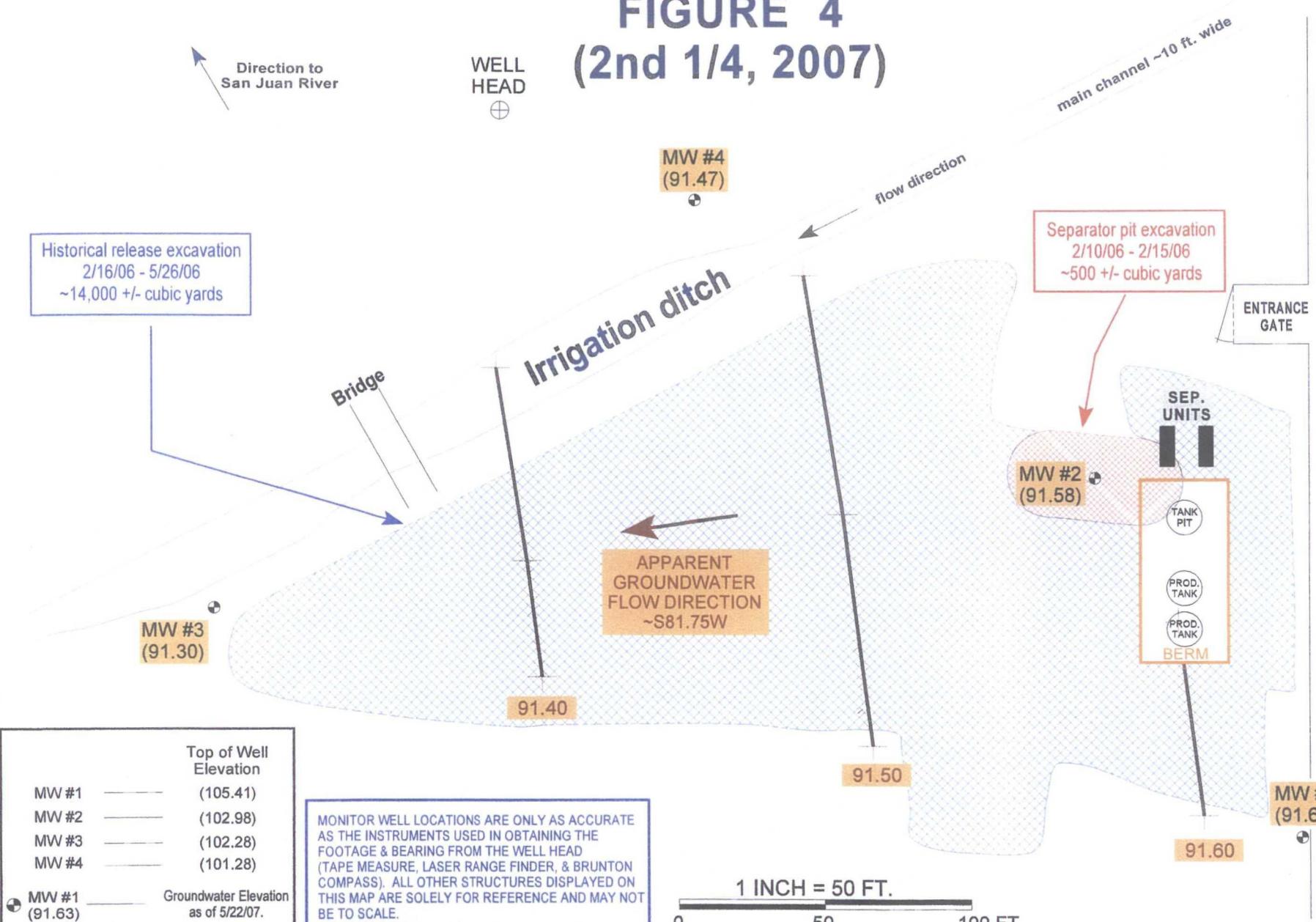
FILENAME: 01-22-07-GW.SKF

REVISED: 01-22-07 NJV

GROUNDWATER  
GRADIENT  
MAP

01/07

# FIGURE 4 (2nd 1/4, 2007)



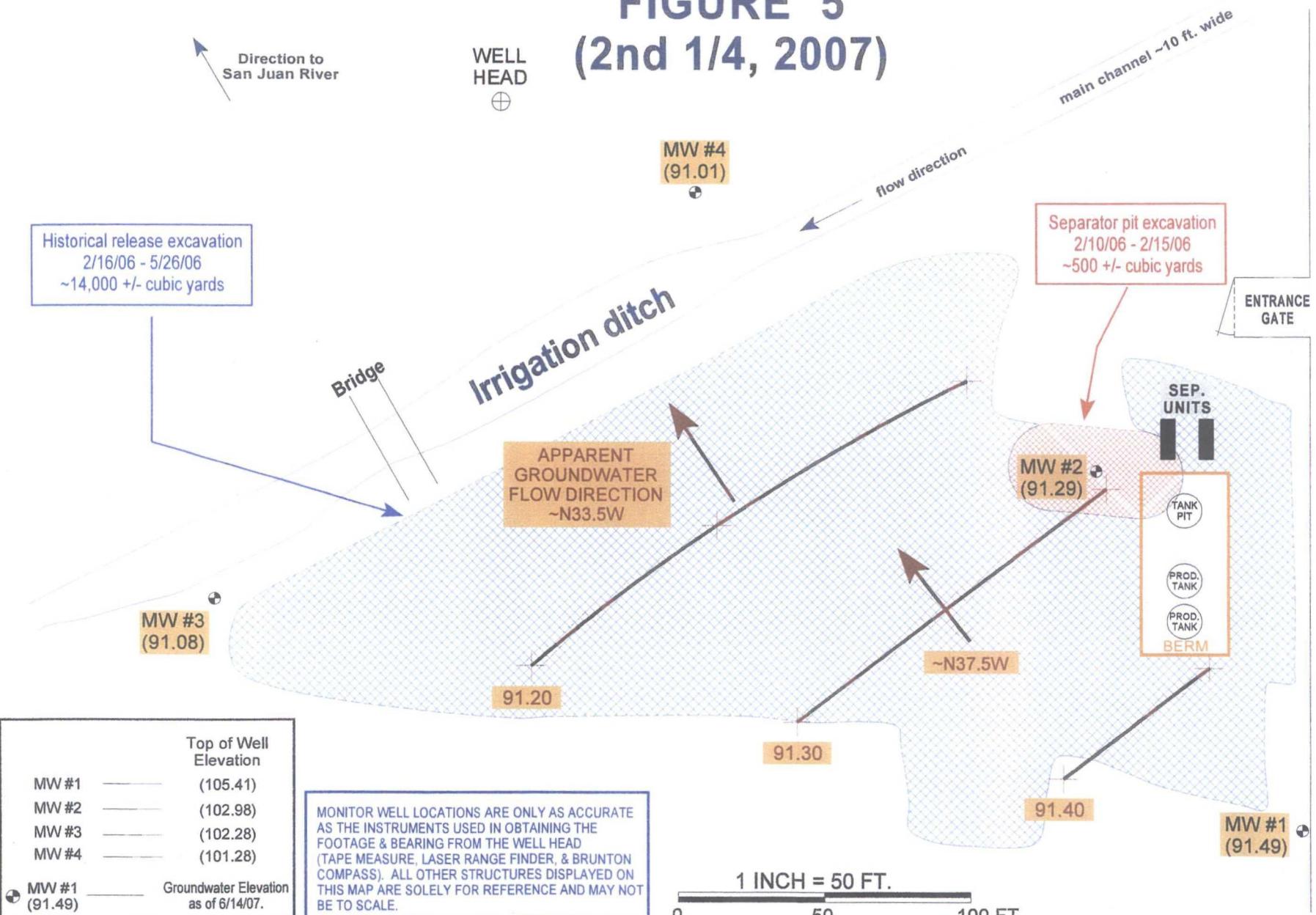
BP AMERICA PRODUCTION CO.  
CHAVEZ GC A #1  
SW/4 NE/4 SEC. 3, T29N, R9W  
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 05-22-07-GW.SKF  
REVISED: 05-22-07 NJV

GROUNDWATER  
GRADIENT  
MAP  
05/07

# FIGURE 5 (2nd 1/4, 2007)



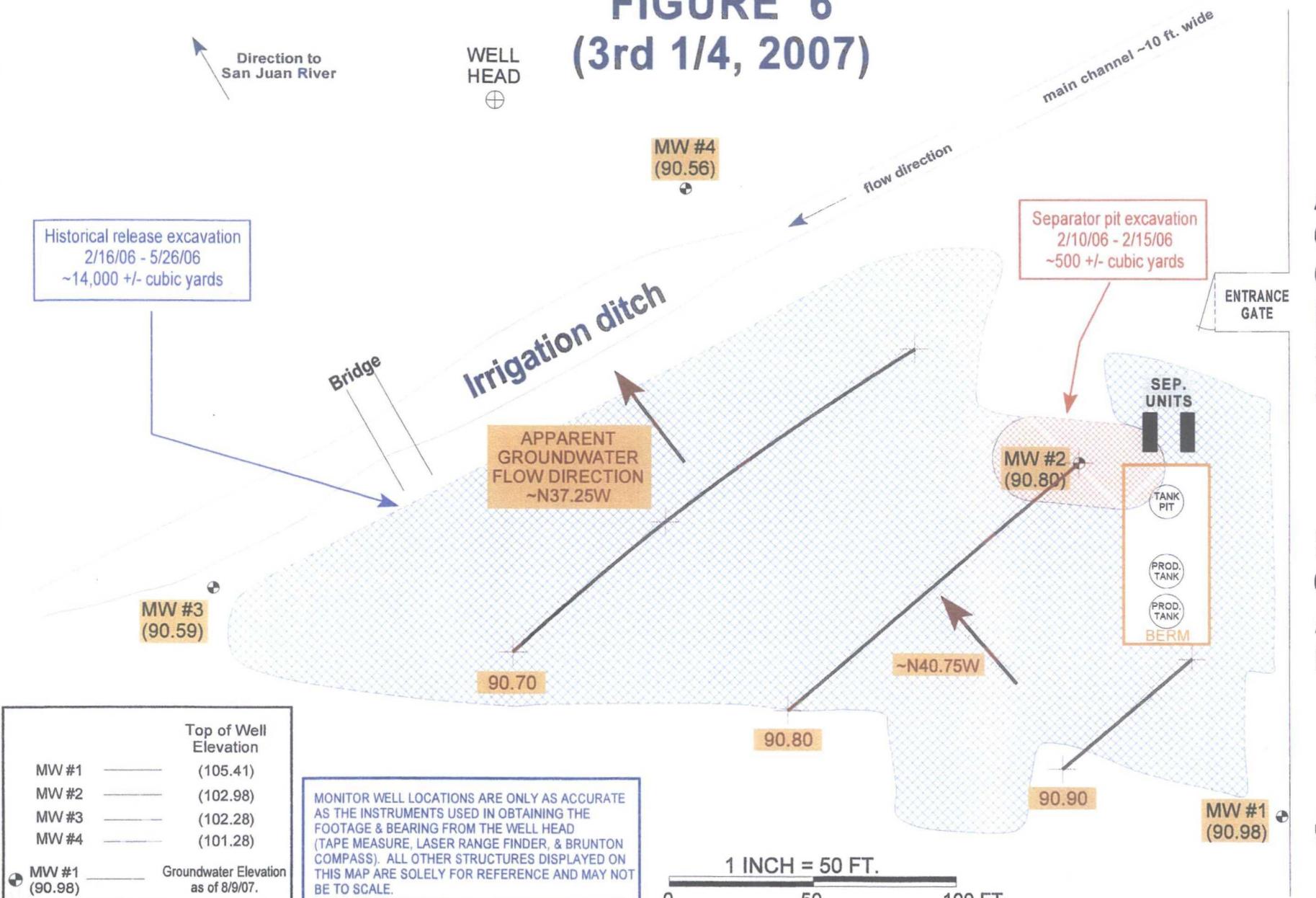
**BP AMERICA PRODUCTION CO.**  
**CHAVEZ GC A # 1**  
**SW/4 NE/4 SEC. 3, T29N, R9W**  
**SAN JUAN COUNTY, NEW MEXICO**

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

**PROJECT: MW SAMPLING**  
**DRAWN BY: NJV**  
**FILENAME: 06-14-07-GW.SKF**  
**REVISED: 06-14-07 NJV**

**GROUNDWATER GRADIENT MAP**  
**06/07**

# FIGURE 6 (3rd 1/4, 2007)



A  
C  
C  
E  
S  
S  
  
R  
O  
A  
D



To Hwy 511

BP AMERICA PRODUCTION CO.  
CHAVEZ GC A # 1  
SW 1/4 NE 1/4 SEC. 3, T29N, R9W  
SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 08-09-07-GW.SKF  
REVISED: 08-09-07 NJV

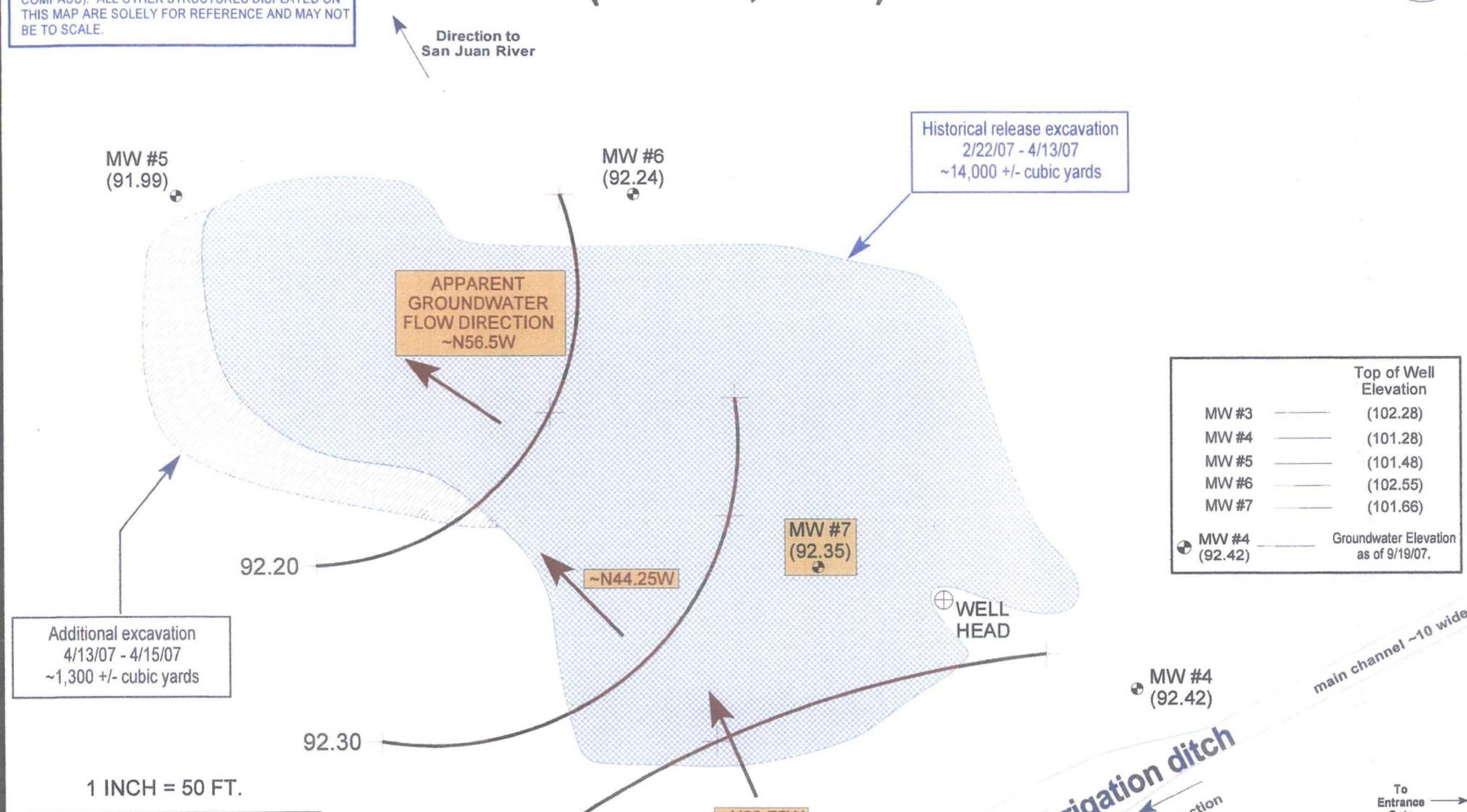
GROUNDWATER  
GRADIENT  
MAP  
08/07

# FIGURE 7

(3rd 1/4, 2007)



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.



**BP AMERICA PRODUCTION CO.**  
**CHAVEZ GC A #1**  
**SW 1/4 NE 1/4 SEC. 3, T29N, R9W**  
**SAN JUAN COUNTY, NEW MEXICO**

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

**PROJECT: MW INSTALLATIONS**  
**DRAWN BY: NJV**  
**FILENAME: 09-19-07-GW.SKF**  
**REVISED: 09-19-07 NJV**

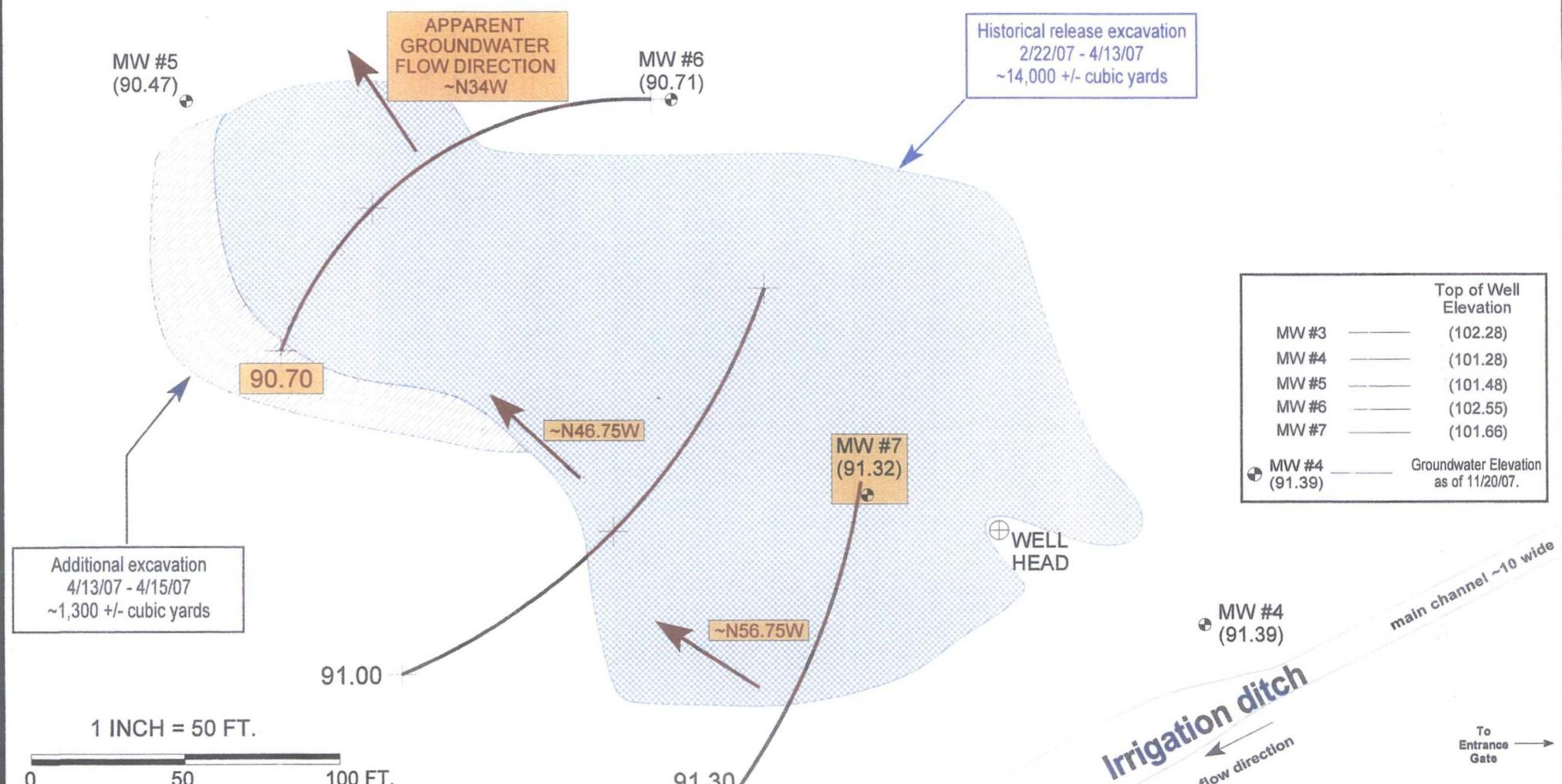
**GROUNDWATER CONTOUR MAP**  
**09/07**

# FIGURE 8

(4th 1/4, 2007)



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

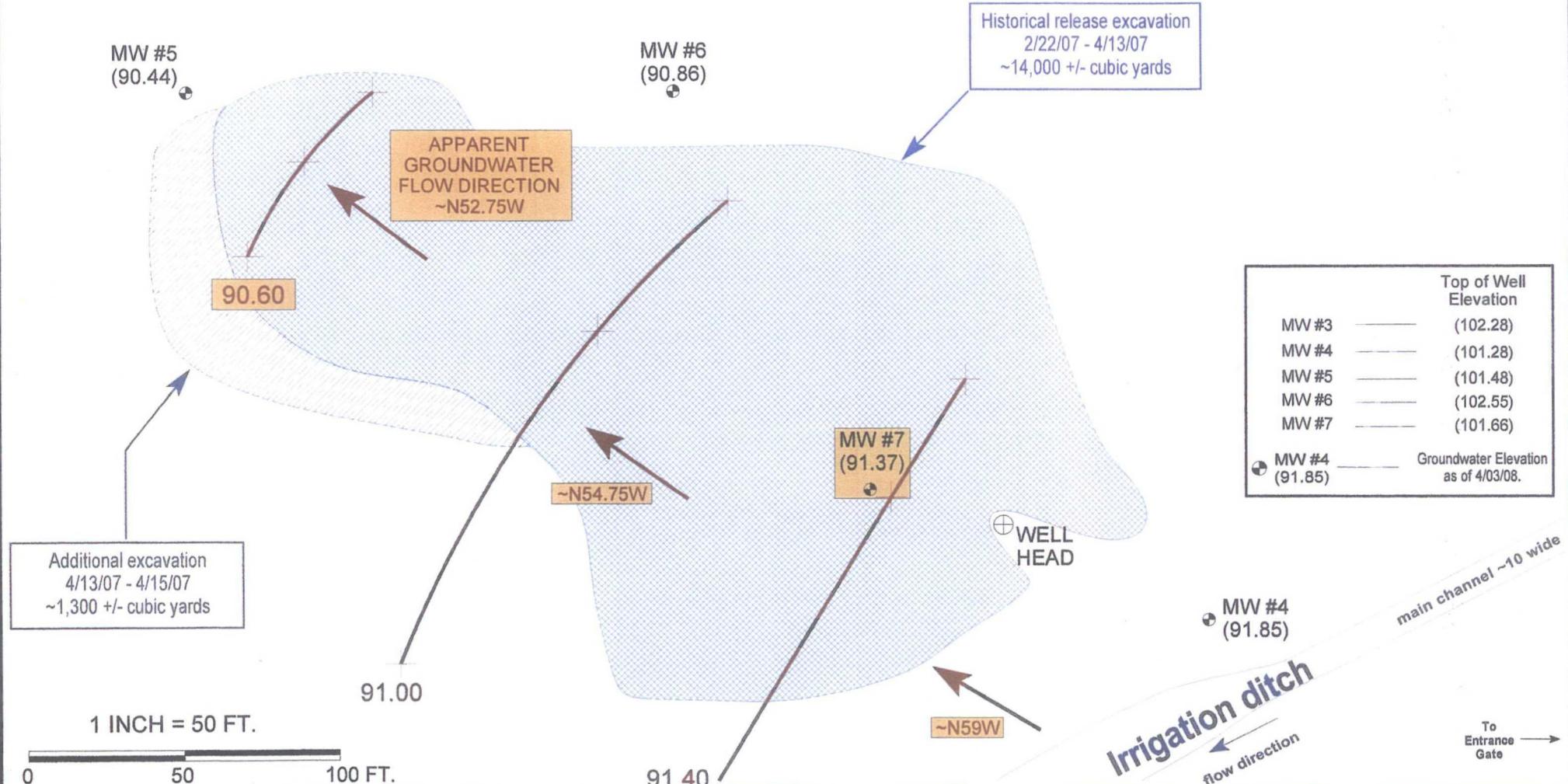




**FIGURE 9**  
**(2nd 1/4, 2008)**

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

Direction to  
San Juan River



**BP AMERICA PRODUCTION CO.**  
**CHAVEZ GC A #1**  
**SW/4 NE/4 SEC. 3, T29N, R9W**  
**SAN JUAN COUNTY, NEW MEXICO**

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

**PROJECT: MW INSTALLATIONS**  
**DRAWN BY: NJV**  
**FILENAME: 04-03-08-GW.SKF**  
**REVISED: 04-08-08 NJV**

**GROUNDWATER CONTOUR MAP**  
**04/08**

## BLAGG ENGINEERING, INC.

P.O. BOX 87  
 BLOOMFIELD, NM 87413  
 (505) 632-1199

MW #5

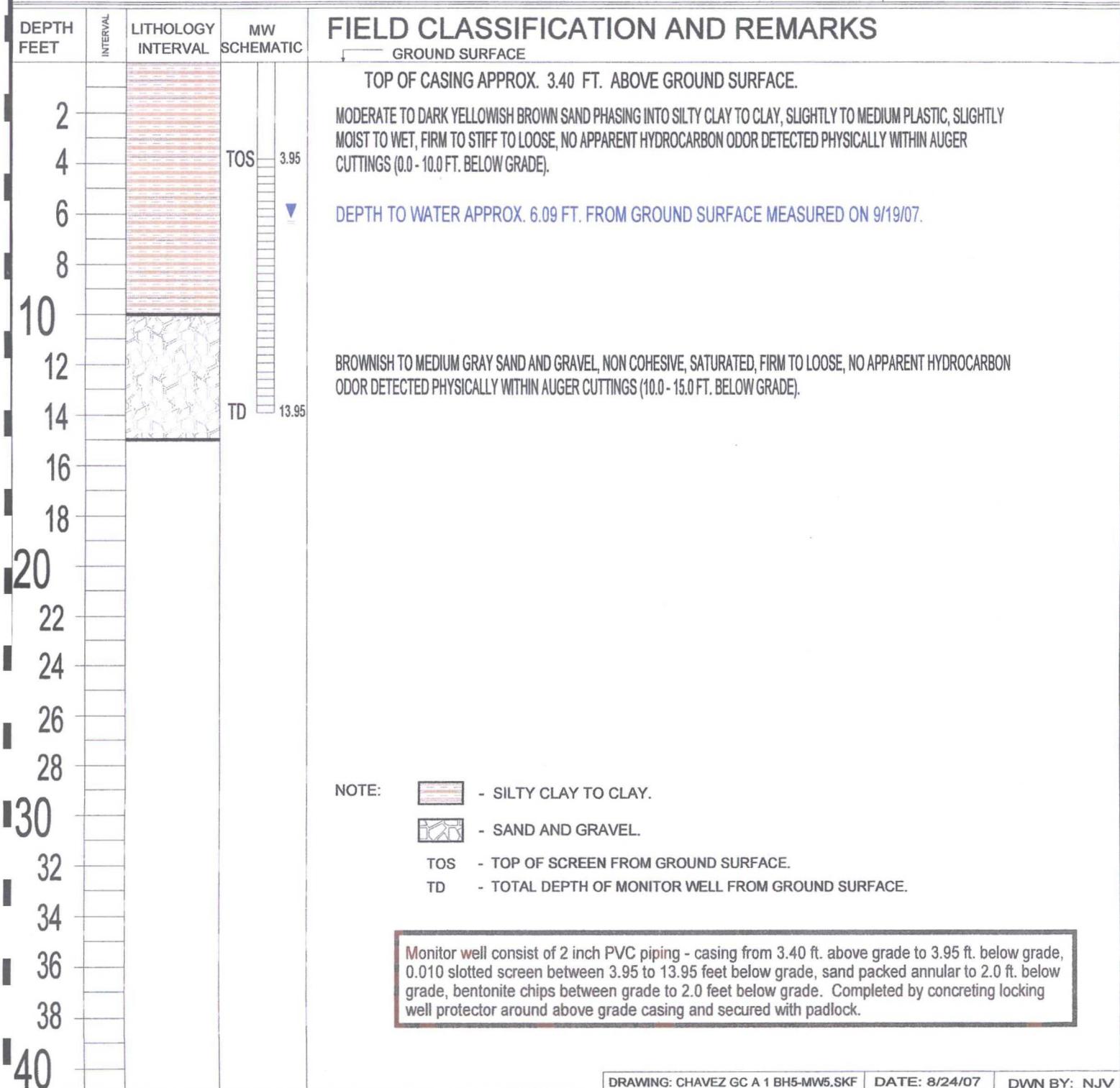
## BORE / TEST HOLE REPORT

CLIENT:  
 LOCATION NAME:  
 CONTRACTOR:  
 EQUIPMENT USED:  
 BORING LOCATION:

BP AMERICA PRODUCTION COMPANY

CHAVEZ GC A # 1      UNIT G, SEC. 3, T29N, R9W  
 BLAGG ENGINEERING, INC. / ENVIROTECH, INC.  
 MOBILE DRILL RIG (CME 75)  
 300 FT., N62W FROM WELL HEAD.

|               |         |
|---------------|---------|
| BORING #..... | BH - 5  |
| MW #.....     | 5       |
| PAGE #.....   | 5       |
| DATE STARTED  | 8/24/07 |
| DATE FINISHED | 8/24/07 |
| OPERATOR..... | DP      |
| PREPARED BY   | NJV     |



## BLAGG ENGINEERING, INC.

P.O. BOX 87  
 BLOOMFIELD, NM 87413  
 (505) 632-1199

MW #6

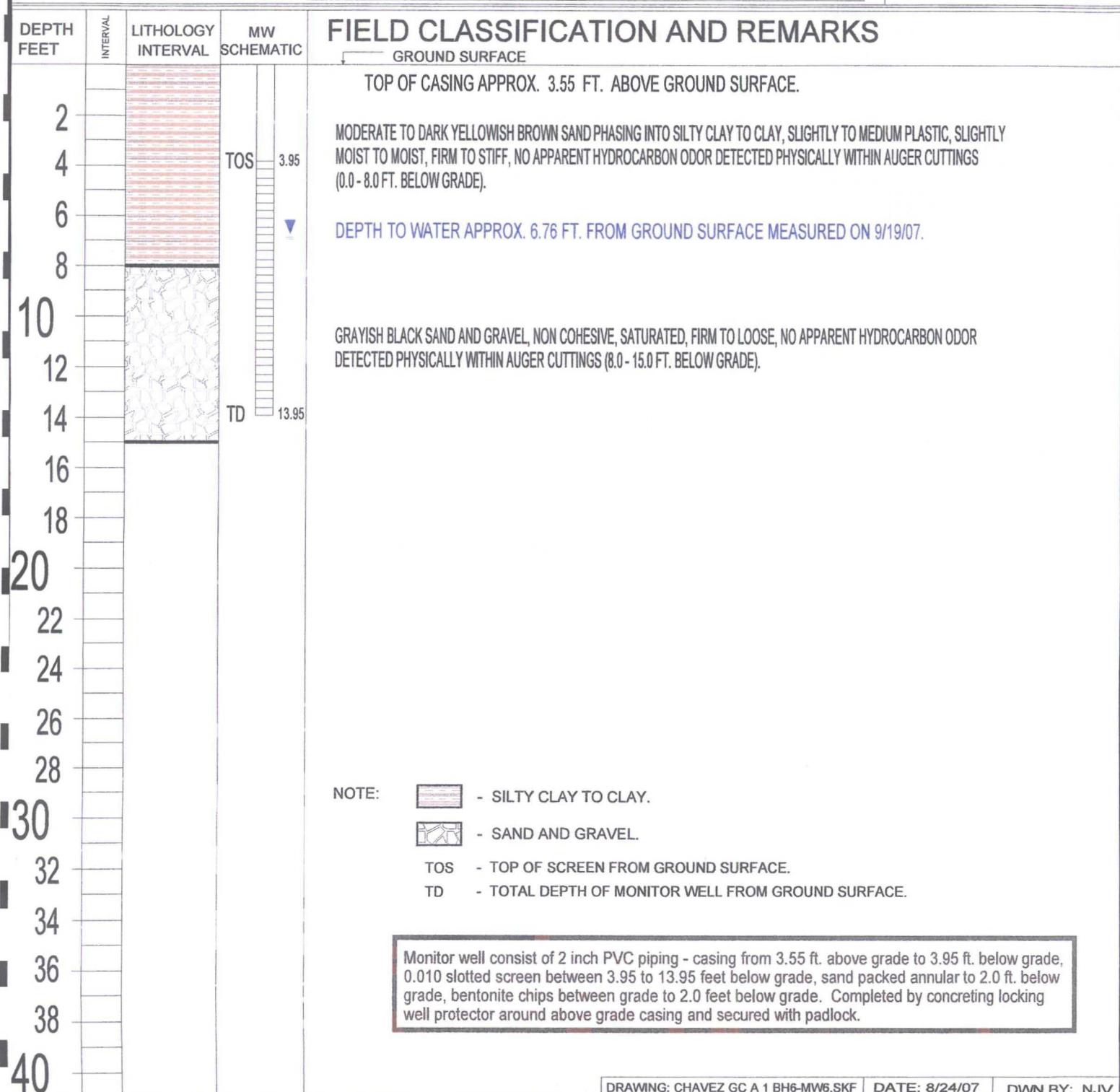
## BORE / TEST HOLE REPORT

CLIENT:  
 LOCATION NAME:  
 CONTRACTOR:  
 EQUIPMENT USED:  
 BORING LOCATION:

BP AMERICA PRODUCTION COMPANY

CHAVEZ GC A # 1      UNIT G, SEC. 3, T29N, R9W  
 BLAGG ENGINEERING, INC. / ENVIROTECH, INC.  
 MOBILE DRILL RIG (CME 75)  
 177 FT., N37W FROM WELL HEAD.

|               |         |
|---------------|---------|
| BORING #..... | BH - 6  |
| MW#.....      | 6       |
| PAGE #.....   | 6       |
| DATE STARTED  | 8/24/07 |
| DATE FINISHED | 8/24/07 |
| OPERATOR..... | DP      |
| PREPARED BY   | NJV     |



# BLAGG ENGINEERING, INC.

P.O. BOX 87  
BLOOMFIELD, NM 87413  
(505) 632-1199

**MW #7**

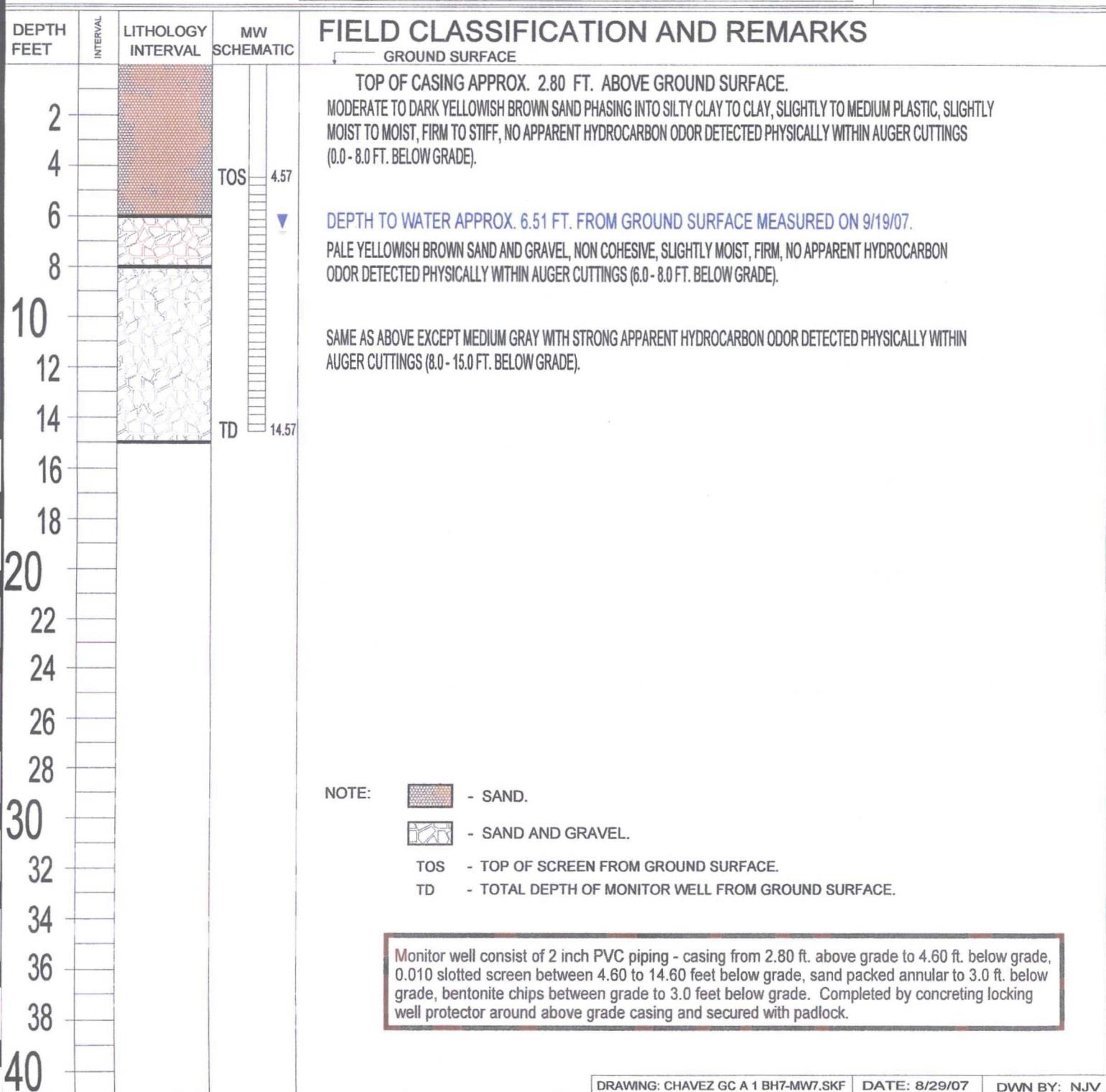
## BORE / TEST HOLE REPORT

CLIENT:  
LOCATION NAME:  
CONTRACTOR:  
EQUIPMENT USED:  
BORING LOCATION:

### BP AMERICA PRODUCTION COMPANY

CHAVEZ GC A # 1      UNIT G, SEC. 3, T29N, R9W  
BLAGG ENGINEERING, INC. / ENVIROTECH, INC.  
MOBILE DRILL RIG (CME 75)  
44.5 FT., N75W FROM WELL HEAD.

|               |         |
|---------------|---------|
| BORING #..... | BH - 7  |
| MW #.....     | 7       |
| PAGE #.....   | 7       |
| DATE STARTED  | 8/29/07 |
| DATE FINISHED | 8/29/07 |
| OPERATOR..... | DP      |
| PREPARED BY   | NJV     |



**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N / A

**CHAVEZ GC A #1**

**LABORATORY (S) USED:** HALL ENVIRONMENTAL

**UNIT G, SEC. 3, T29N, R9W**

**Date:** October 27, 2006

**SAMPLER:** N J V

**Filename:** 10-27-06.WK4

**PROJECT MANAGER:** J C B

| WELL # | WELL ELEV.<br>(ft) | WATER ELEV.<br>(ft) | DEPTH TO WATER<br>(ft) | TOTAL DEPTH<br>(ft) | SAMPLING TIME | pH   | CONDUCT<br>(umhos) | TEMP.<br>(celcius) | VOLUME PURGED<br>(gal.) |
|--------|--------------------|---------------------|------------------------|---------------------|---------------|------|--------------------|--------------------|-------------------------|
| MW - 1 | 105.41             | 91.16               | 14.25                  | 19.50               | -             | -    | -                  | -                  | -                       |
| MW - 2 | 102.98             | 90.94               | 12.04                  | 18.00               | 1120          | 7.53 | 3,500              | 15.8               | 3.00                    |
| MW - 3 | 102.25             | 90.76               | 11.49                  | 19.00               | 1230          | 7.00 | 1,400              | 16.2               | 3.75                    |
| MW - 4 | 101.28             | 90.58               | 10.70                  | 16.00               | 1155          | 7.22 | 800                | 16.1               | 2.75                    |

**INSTRUMENT CALIBRATIONS =** 7.00 2,800

**DATE & TIME =** 10/27/06 0845

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi r^2 X h X 7.48 \text{ gal./ft}^3 X 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW's sampled, slight HC odor detected physically in MW # 2. Collected BTEX from MW's # 2, # 3, & # 4.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.50 ft., MW # 4 ~ 2.60 ft. above grade.

## Hall Environmental Analysis Laboratory, Inc.

Date: 03-Nov-06

|          |                   |            |         |
|----------|-------------------|------------|---------|
| CLIENT:  | Blagg Engineering | Lab Order: | 0610363 |
| Project: | Chavez GC A #1    |            |         |

Lab ID: 0610363-01 Collection Date: 10/27/2006 11:20:00 AM

Client Sample ID: MW #2 Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed         |
|------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                       |
| Benzene                            | 5.6    | 5.0      |      | µg/L  | 5  | 11/2/2006 12:09:09 PM |
| Toluene                            | ND     | 5.0      |      | µg/L  | 5  | 11/2/2006 12:09:09 PM |
| Ethylbenzene                       | 30     | 5.0      |      | µg/L  | 5  | 11/2/2006 12:09:09 PM |
| Xylenes, Total                     | 82     | 15       |      | µg/L  | 5  | 11/2/2006 12:09:09 PM |
| Surr: 4-Bromofluorobenzene         | 91.7   | 72.2-125 |      | %REC  | 5  | 11/2/2006 12:09:09 PM |

Lab ID: 0610363-02 Collection Date: 10/27/2006 12:30:00 PM

Client Sample ID: MW #3 Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |
| Benzene                            | 1.1    | 1.0      |      | µg/L  | 1  | 11/2/2006 8:15:11 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 11/2/2006 8:15:11 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 11/2/2006 8:15:11 PM |
| Xylenes, Total                     | 14     | 3.0      |      | µg/L  | 1  | 11/2/2006 8:15:11 PM |
| Surr: 4-Bromofluorobenzene         | 89.7   | 72.2-125 |      | %REC  | 1  | 11/2/2006 8:15:11 PM |

Lab ID: 0610363-03 Collection Date: 10/27/2006 11:55:00 AM

Client Sample ID: MW #4 Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 11/2/2006 1:09:53 PM |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 11/2/2006 1:09:53 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 11/2/2006 1:09:53 PM |
| Xylenes, Total                     | ND     | 3.0      |      | µg/L  | 1  | 11/2/2006 1:09:53 PM |
| Surr: 4-Bromofluorobenzene         | 86.2   | 72.2-125 |      | %REC  | 1  | 11/2/2006 1:09:53 PM |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

# CHAIN-OF-CUSTODY RECORD

Client: BLAIS ENGR /BP AMERICA

Address: P.O. BOX 87  
BLVD., NM 87413

Phone #: 632-1199

Fax #:

|   |
|---|
| QA/QC Package:<br><input type="checkbox"/> Std <input type="checkbox"/> Level 4 |
| Other: _____  |
| Project Name:<br><u>CHAVEZ GC A #1</u>  |

Project #: NV

Project Manager: JCB

Sampler: NV

Sample Temperature: 70°

| Date     | Time | Matrix | Sample I.D. No. | Number/Volume | Preservative      |                  | HEAL No.<br><u>040363</u> | <u>BTEX + MTBE + TMB's (8021B)</u> | ANALYSIS REQUEST   |  |  |  |  |  |  |  |  |  |
|----------|------|--------|-----------------|---------------|-------------------|------------------|---------------------------|------------------------------------|--|--|--|--|--|--|--|--|--|--|
|          |      |        |                 |               | HgCl <sub>2</sub> | HNO <sub>3</sub> |                           |                                    | ANALYSIS REQUEST   |  |  |  |  |  |  |  |  |  |
| 10/27/06 | 1120 | WATER  | MW # 2          | 2 - 40ml      | /                 | -                | -1                        | ✓                                  | BTEX + MTBE + TPH (Gasoline Only)  |  |  |  |  |  |  |  |  |  |
| 10/27/06 | 1230 | WATER  | MW # 3          | 2 - 40ml      | /                 | -                | -2                        | ✓                                  | TPH Method 8015B (Gas/Diesel)  |  |  |  |  |  |  |  |  |  |
| 10/27/06 | 1155 | WATER  | MW # 4          | 2 - 40ml      | /                 | -                | -3                        | ✓                                  | TPH (Method 418.1)   |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | EDB (Method 504.1)   |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | EDC (Method 8021)  |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | 8310 (PMA or PAH)  |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | RCRA 8 Metals  |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | 8081 Pesticides / PCB's (8082)   |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | 8260B (VDA)  |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | 8270 (Semi-VOA)  |  |  |  |  |  |  |  |  |  |
|          |      |        |                 |               |                   |                  |                           |                                    | Air Bubbles or Headspace (Y or N)  |  |  |  |  |  |  |  |  |  |

Date: 10/30/06 Time: 0645 Relinquished By: John VM

Received By: John Date: 10/31/06 Time: 0942

Remarks:

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY  
4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

## QA/QC SUMMARY REPORT

**Client:** Blagg Engineering  
**Project:** Chavez GC A #1

Work Order: 0610363

| Analyte                           | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------------|--------|-------|-----|------|----------|-----------|------|----------|------|
| <b>Method: SW8021</b>             |        |       |     |      |          |           |      |          |      |
| <b>Sample ID: 5ML RB</b>          |        |       |     |      |          |           |      |          |      |
| Benzene                           | ND     | µg/L  | 1.0 |      |          |           |      |          |      |
| Toluene                           | ND     | µg/L  | 1.0 |      |          |           |      |          |      |
| Ethylbenzene                      | ND     | µg/L  | 1.0 |      |          |           |      |          |      |
| Xylenes, Total                    | ND     | µg/L  | 3.0 |      |          |           |      |          |      |
| <b>Sample ID: 100NG BTEX LCS</b>  |        |       |     |      |          |           |      |          |      |
| Benzene                           | 18.71  | µg/L  | 1.0 | 93.6 | 85       | 115       |      |          |      |
| Toluene                           | 18.92  | µg/L  | 1.0 | 94.6 | 85       | 118       |      |          |      |
| Ethylbenzene                      | 18.78  | µg/L  | 1.0 | 91.3 | 85       | 116       |      |          |      |
| Xylenes, Total                    | 37.98  | µg/L  | 3.0 | 91.3 | 85       | 119       |      |          |      |
| <b>Sample ID: 100NG BTEX LCSD</b> |        |       |     |      |          |           |      |          |      |
| Benzene                           | 18.94  | µg/L  | 1.0 | 94.7 | 85       | 115       | 1.18 | 27       |      |
| Toluene                           | 19.35  | µg/L  | 1.0 | 96.7 | 85       | 118       | 2.23 | 19       |      |
| Ethylbenzene                      | 19.05  | µg/L  | 1.0 | 92.6 | 85       | 116       | 1.45 | 10       |      |
| Xylenes, Total                    | 39.18  | µg/L  | 3.0 | 94.3 | 85       | 119       | 3.11 | 13       |      |

## Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

## Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

**Client Name BLAGG**

**Date and Time Received:**

10/31/2006

Work Order Number 0610363

Received by AT

**Checklist completed by**

Signature

10/31/06

Date

Matrix

**Carrier name** Greyhound

- |   |   |   |   |                                      |
|---|---|---|---|--------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    |                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input checked="" type="checkbox"/>  | N/A <input type="checkbox"/>            |                                      |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |                                      |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/> |                                      |
| Container/Temp Blank temperature?                       | 1°  | 4° C ± 2 Acceptable                     |   |                                      |
|   |   | If given sufficient time to cool        |   |                                      |

**COMMENTS:**

**Client contacted**

Date contacted:

**Person contacted**

Contacted by:

### Regarding

**Comments:**

## **Corrective Action**

**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N/A

**CHAVEZ GC A #1**

**UNIT G, SEC. 3, T29N, R9W**

**LABORATORY (S) USED:** HALL ENVIRONMENTAL

**Date :** January 22, 2007

**SAMPLER:** N J V

**Filename :** 01-22-07.WK4

**PROJECT MANAGER:** J C B

| WELL # | WELL ELEV.<br>(ft) | WATER ELEV.<br>(ft) | DEPTH TO WATER<br>(ft) | TOTAL DEPTH<br>(ft) | SAMPLING TIME | pH   | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED<br>(gal.) |
|--------|--------------------|---------------------|------------------------|---------------------|---------------|------|-----------------|-----------------|-------------------------|
| MW - 1 | 105.41             | 91.82               | 13.59                  | 19.50               | -             | -    | -               | -               | -                       |
| MW - 2 | 102.98             | 91.54               | 11.44                  | 18.00               | 1230          | 7.55 | 5,000           | 13.7            | 3.25                    |
| MW - 3 | 102.25             | 91.42               | 10.83                  | 19.00               | 1150          | 7.35 | 1,300           | 10.7            | 4.00                    |
| MW - 4 | 101.28             | 91.23               | 10.05                  | 16.00               | 1120          | 7.35 | 900             | 8.8             | 3.00                    |

|                                  |                 |              |
|----------------------------------|-----------------|--------------|
| <b>INSTRUMENT CALIBRATIONS =</b> | <u>7.00</u>     | <u>2,800</u> |
| <b>DATE &amp; TIME =</b>         | <u>01/22/07</u> | <u>1115</u>  |

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW's sampled, slight HC odor detected physically in MW # 2. Collected BTEX from MW's # 2, # 3, & # 4.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.50 ft., MW # 4 ~ 2.60 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: 29-Jan-07

**CLIENT:** Blagg Engineering                            **Lab Order:** 0701272  
**Project:** Chavez GC A #1

Lab ID: 0701272-01 Collection Date: 1/22/2007 12:30:00 PM  
Client Sample ID: MW#2 Matrix: AQUEOUS

**Analyses**      **Result**      **PQL**      **Qual**      **Units**      **DF**      **Date Analyzed**

| EPA METHOD 8021B: VOLATILES     |      |          |      |   | Analyst: LMM         |
|---------------------------------|------|----------|------|---|----------------------|
| Benzene                         | 1.8  | 1.0      | µg/L | 1 | 1/26/2007 2:10:40 PM |
| Toluene                         | ND   | 1.0      | µg/L | 1 | 1/26/2007 2:10:40 PM |
| Ethylbenzene                    | 3.6  | 1.0      | µg/L | 1 | 1/26/2007 2:10:40 PM |
| Xylenes, Total                  | 4.8  | 3.0      | µg/L | 1 | 1/26/2007 2:10:40 PM |
| Surrogate: 4-Bromofluorobenzene | 89.8 | 70.2-105 | %REC | 1 | 1/26/2007 2:10:40 PM |

**Lab ID:** 0701272-02 **Collection Date:** 1/22/2007 11:50:00 AM

**Client Sample ID:** MW#3 **Matrix:** AQUEOUS

**Analyses**      **Result**      **PQL**    **Qual**    **Units**      **DF**      **Date Analyzed**

| EPA METHOD 8021B: VOLATILES     |      |          |      |   | Analyst: LMM         |
|---------------------------------|------|----------|------|---|----------------------|
| Benzene                         | ND   | 1.0      | µg/L | 1 | 1/26/2007 2:40:43 PM |
| Toluene                         | ND   | 1.0      | µg/L | 1 | 1/26/2007 2:40:43 PM |
| Ethylbenzene                    | ND   | 1.0      | µg/L | 1 | 1/26/2007 2:40:43 PM |
| Xylenes, Total                  | ND   | 3.0      | µg/L | 1 | 1/26/2007 2:40:43 PM |
| Surrogate: 4-Bromofluorobenzene | 84.8 | 70.2-105 | %REC | 1 | 1/26/2007 2:40:43 PM |

**Lab ID:** 0701272-03 **Collection Date:** 1/22/2007 11:20:00 AM

**Client Sample ID:** MW#4 **Matrix:** AQUEOUS

| EPA METHOD 8021B: VOLATILES |      |          |      |   | Analyst: LMM         |
|-----------------------------|------|----------|------|---|----------------------|
| Benzene                     | ND   | 1.0      | µg/L | 1 | 1/25/2007 4:29:01 PM |
| Toluene                     | ND   | 1.0      | µg/L | 1 | 1/25/2007 4:29:01 PM |
| Ethylbenzene                | ND   | 1.0      | µg/L | 1 | 1/25/2007 4:29:01 PM |
| Xylenes, Total              | 5.3  | 3.0      | µg/L | 1 | 1/25/2007 4:29:01 PM |
| Surr: 4-Bromofluorobenzene  | 94.9 | 70.2-105 | %REC | 1 | 1/25/2007 4:29:01 PM |

|                    |    |  |
|--------------------|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level      |
|                    | E  | Value above quantitation range               |
|                    | J  | Analyte detected below quantitation limits   |
|                    | ND | Not Detected at the Reporting Limit          |
|                    | S  | Spike recovery outside accepted recovery lim |

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
**MCL Maximum Contaminant Level**  
**RL Reporting Limit**

## **CHAIN-OF-CUSTODY RECORD**

Client: BLAAS ENGR./BP AMERICA

Address: P.O. BOX 87  
BLFD. NM 87413

Phone #: 632-1199

Fax #:

|                              |                                  |
|------------------------------|----------------------------------|
| QA / QC Package:             | <input type="checkbox"/>         |
| Std <input type="checkbox"/> | Level 4 <input type="checkbox"/> |
| Other: _____                 |                                  |

**Project Name:**

CHAVEZ GC A #1

Project #:

Project Manager:

JCR

**Sampler:**

WV

Sample Temperature:

274

78

**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**  
4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

#### **ANALYSIS REQUEST**

|                  |               |   |
|------------------|---------------|---|
| Date:<br>1/23/07 | Time:<br>1100 | Relinquished By: (Signature)<br><i>John Vel</i> |
| Date:            | Time:         | Relinquished By: (Signature)                    |

|                          |                |          |
|--------------------------|----------------|----------|
| Received By: [Signature] | -24-07<br>0937 | Remarks: |
| <i>B. L. Shupe</i>       |                |          |
| Received By: [Signature] |                |          |

## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: Chavez GC A #1 Work Order: 0701272

| Analyte                   | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD             | RPDLimit       | Qual                  |
|---------------------------|--------|-------|-----|------|----------|-----------|------------------|----------------|-----------------------|
| <b>Method: SW8021</b>     |        |       |     |      |          |           |                  |                |                       |
| Sample ID: 5ML RB         |        | MBLK  |     |      |          |           | Batch ID: R22273 | Analysis Date: | 1/25/2007 1022:32 AM  |
| Benzene                   | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Toluene                   | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Ethylbenzene              | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Xylenes, Total            | ND     | µg/L  | 3.0 |      |          |           |                  |                |                       |
| Sample ID: 5ML RB         |        | MBLK  |     |      |          |           | Batch ID: R22287 | Analysis Date: | 1/26/2007 10:39:39 AM |
| Benzene                   | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Toluene                   | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Ethylbenzene              | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Xylenes, Total            | ND     | µg/L  | 3.0 |      |          |           |                  |                |                       |
| Sample ID: 100NG BTEX LCS |        | LCS   |     |      |          |           | Batch ID: R22273 | Analysis Date: | 1/25/2007 11:53:06 AM |
| Benzene                   | 18.42  | µg/L  | 1.0 | 92.1 | 85.9     | 113       |                  |                |                       |
| Toluene                   | 19.07  | µg/L  | 1.0 | 95.4 | 86.4     | 113       |                  |                |                       |
| Ethylbenzene              | 19.19  | µg/L  | 1.0 | 96.0 | 83.5     | 118       |                  |                |                       |
| Xylenes, Total            | 57.65  | µg/L  | 3.0 | 96.1 | 83.4     | 122       |                  |                |                       |
| Sample ID: 100NG BTEX LCS |        | LCS   |     |      |          |           | Batch ID: R22287 | Analysis Date: | 1/26/2007 12:10:12 PM |
| Benzene                   | 17.99  | µg/L  | 1.0 | 90.0 | 85.9     | 113       |                  |                |                       |
| Toluene                   | 18.70  | µg/L  | 1.0 | 93.5 | 86.4     | 113       |                  |                |                       |
| Ethylbenzene              | 18.92  | µg/L  | 1.0 | 94.6 | 83.5     | 118       |                  |                |                       |
| Xylenes, Total            | 56.87  | µg/L  | 3.0 | 94.8 | 83.4     | 122       |                  |                |                       |

## Qualifiers:

E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

1/24/2007

Work Order Number 0701272

Received by GLS

Checklist completed by

Signature

D. Chalopek  
1-24-07

Date

Matrix

Carrier name Greyhound

|   |   |   |   |
|---|---|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>   |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Container/Temp Blank temperature?                       | 1°  | 4° C ± 2 Acceptable                     | If given sufficient time to cool.   |

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**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT : BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY # :** N / A

**CHAVEZ GC A #1**

**LABORATORY (S) USED :** HALL ENVIRONMENTAL

**UNIT G, SEC. 3, T29N, R9W**

**Date :** May 22, 2007

**SAMPLER :** N J V

**Filename :** 05-22-07.WK4

**PROJECT MANAGER :** J C B

| WELL # | WELL ELEV.<br>(ft) | WATER ELEV.<br>(ft) | DEPTH TO WATER<br>(ft) | TOTAL DEPTH<br>(ft) | SAMPLING TIME | pH   | CONDUCT<br>(umhos) | TEMP.<br>(celcius) | VOLUME PURGED<br>(gal.) |
|--------|--------------------|---------------------|------------------------|---------------------|---------------|------|--------------------|--------------------|-------------------------|
| 1      | 105.41             | 91.63               | 13.78                  | 19.50               | -             | -    | -                  | -                  | -                       |
| 2      | 102.98             | 91.58               | 11.40                  | 18.00               | 1020          | 7.58 | 3,200              | 16.6               | 3.25                    |
| 3      | 102.25             | 91.30               | 10.95                  | 19.00               | 0940          | 7.55 | 1,000              | 14.0               | 4.00                    |
| 4      | 101.28             | 91.47               | 9.81                   | 16.00               | 0910          | 7.15 | 2,100              | 14.5               | 3.00                    |

|                                  |                 |              |
|----------------------------------|-----------------|--------------|
| <b>INSTRUMENT CALIBRATIONS =</b> | <u>7.00</u>     | <u>2,800</u> |
| <b>DATE &amp; TIME =</b>         | <u>05/08/07</u> | <u>0740</u>  |

**NOTES :** Volume of water purged from well prior to sampling;  $V = \pi r^2 X h X 7.48 \text{ gal./ft}^3 X 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

**Comments or note well diameter if not standard 2".**

**Excellent recovery in MW's sampled, slight HC odor detected physically in MW # 2. Collected BTEX from MW's # 2, # 3, & # 4.**

**Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.50 ft., MW # 4 ~ 2.60 ft. above grade.**

## Hall Environmental Analysis Laboratory, Inc.

Date: 31-May-07

**CLIENT:** Blagg Engineering      **Client Sample ID:** MW #2  
**Lab Order:** 0705359      **Collection Date:** 5/22/2007 10:20:00 AM  
**Project:** Chavez GC A #1      **Date Received:** 5/23/2007  
**Lab ID:** 0705359-01      **Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        | Analyst: NSB |
|------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |              |
| Benzene                            | 1.7    | 1.0      |      | µg/L  | 1  | 5/29/2007 7:40:08 PM |              |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 7:40:08 PM |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 7:40:08 PM |              |
| Xylenes, Total                     | 12     | 2.0      |      | µg/L  | 1  | 5/29/2007 7:40:08 PM |              |
| Surr: 4-Bromofluorobenzene         | 92.6   | 70.2-105 |      | %REC  | 1  | 5/29/2007 7:40:08 PM |              |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 31-May-07

**CLIENT:** Blagg Engineering  
**Lab Order:** 0705359  
**Project:** Chavez GC A #1  
**Lab ID:** 0705359-02

**Client Sample ID:** MW #3  
**Collection Date:** 5/22/2007 9:40:00 AM  
**Date Received:** 5/23/2007  
**Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        | Analyst: NSB |
|------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |              |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:10:14 PM |              |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:10:14 PM |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:10:14 PM |              |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 5/29/2007 8:10:14 PM |              |
| Surr: 4-Bromofluorobenzene         | 91.1   | 70.2-105 |      | %REC  | 1  | 5/29/2007 8:10:14 PM |              |

**Qualifiers:** \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

**Hall Environmental Analysis Laboratory, Inc.**

Date: 31-May-07

**CLIENT:** Blagg Engineering  
**Lab Order:** 0705359  
**Project:** Chavez GC A #1  
**Lab ID:** 0705359-03

**Client Sample ID:** MW #4  
**Collection Date:** 5/22/2007 9:10:00 AM  
**Date Received:** 5/23/2007  
**Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        | Analyst: NSB |
|------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |              |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:40:18 PM |              |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:40:18 PM |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 5/29/2007 8:40:18 PM |              |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 5/29/2007 8:40:18 PM |              |
| Surr: 4-Bromofluorobenzene         | 91.1   | 70.2-105 |      | %REC  | 1  | 5/29/2007 8:40:18 PM |              |

**Qualifiers:**  
\* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

# CHAIN-OF-CUSTODY RECORD

Client: BLAEG ENGR./BP AMERICA

Address: P.O. Box 87  
BFO. NM 87413

Phone #: 632 - 1199

Fax #:

|  |
|--|
| QA / QC Package:<br>Std <input type="checkbox"/> Level 4 <input checked="" type="checkbox"/> |
| Other: _____   |

Project Name: CHAVEZ GC A #1

Project #: 410

Project Manager:

JCB

Sampler: NV

Sample Temperature: 5°



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

## ANALYSIS REQUEST

| Date                 | Time              | Matrix  | Sample I.D. No.                         | Number/Volume | Preservative | OT05359<br>HEAL No.<br>OT05359 | (BTEX + MTBE + TAME + TPH) (80216) | BTEX + MTBE + TPH (Gasoline Only) | TPH Method 8015B (Gas/Diesel) | TPH Method 418.1 | EDB (Method 504.1) | EDC (Method 8021) | B310 (PMA or PAH) | RCRA B Metals | Aliquots (Cl, NO <sub>x</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8081 Pesticides / PCB's (8082) | 8260B (VOA) | 8270 (Semi-VOA) | Air Bubbles or Headspace (Y or N) |
|----------------------|-------------------|---|---|---------------|--------------|--------------------------------|------------------------------------|-----------------------------------|-------------------------------|------------------|--------------------|-------------------|-------------------|---------------|---|--------------------------------|-------------|-----------------|-----------------------------------|
| 5/22/07              | 1020              | WATER   | MW # 2                                  | 2-40 ml       |              | 1                              | ✓                                  |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
| 5/22/07              | 0940              | WATER   | MW # 3                                  | 2-40 ml       |              | 2                              | ✓                                  |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
| 5/22/07              | 0910              | WATER   | MW # 4                                  | 2-40 ml       |              | 3                              | ✓                                  |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
|                      |                   |   |   |               |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
|                      |                   |   |   |               |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
|                      |                   |   |   |               |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
|                      |                   |   |   |               |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
| Date: <u>5/22/07</u> | Time: <u>1415</u> | Relinquished By: (Signature) <u>J. Mon VJ</u> | Received By: (Signature) <u>James S</u> | 5/23/07       |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |
| Date: <u></u>        | Time: <u></u>     | Relinquished By: (Signature) <u></u>          | Received By: (Signature) <u></u>        |               |              |                                |                                    |                                   |                               |                  |                    |                   |                   |               |   |                                |             |                 |                                   |

Remarks:

## QA/QC SUMMARY REPORT

**Client:** Blagg Engineering  
**Project:** Chavez GC A #1

**Work Order:** 0705359

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

**Method:** SW8021

**Sample ID:** 5ML REAGENT BLA

MBLK

Batch ID: R23774 Analysis Date: 5/29/2007 8:19:53 AM

|                |    |      |     |
|----------------|----|------|-----|
| Benzene        | ND | µg/L | 1.0 |
| Toluene        | ND | µg/L | 1.0 |
| Ethylbenzene   | ND | µg/L | 1.0 |
| Xylenes, Total | ND | µg/L | 2.0 |

**Sample ID:** 100NG BTEX LCS

LCS

Batch ID: R23774 Analysis Date: 5/29/2007 9:40:18 PM

|                |       |      |     |      |      |     |
|----------------|-------|------|-----|------|------|-----|
| Benzene        | 19.41 | µg/L | 1.0 | 97.1 | 85.9 | 113 |
| Toluene        | 19.59 | µg/L | 1.0 | 97.9 | 86.4 | 113 |
| Ethylbenzene   | 19.63 | µg/L | 1.0 | 98.2 | 83.5 | 118 |
| Xylenes, Total | 58.61 | µg/L | 2.0 | 97.7 | 83.4 | 122 |

**Qualifiers:**

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name BLAGG

**Date and Time Received:**

5/23/2007

Work Order Number 0705359

Received by TLS

**Checklist completed by**

Signature

5/23/07  
Date

33

Matrix

Carrier name UPS

- |   |   |   |   |
|---|---|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>   |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Container/Temp Blank temperature?                       | 5°  | 4° C ± 2 Acceptable                     | If given sufficient time to cool.   |

**COMMENTS:**

**Client contacted**

Date contacted:

**Person contacted**

Contacted by:

#### **Regarding**

#### **Comments:**

#### **Corrective Action**

**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N/A

**CHAVEZ GC A #1**

**LABORATORY (S) USED:** HALL ENVIRONMENTAL

**UNIT G, SEC. 3, T29N, R9W**

**Date:** August 9, 2007

**SAMPLER:** N J V

**Filename:** 08-09-07.WK4

**PROJECT MANAGER:** J C B

| WELL # | WELL ELEV.<br>(ft) | WATER ELEV.<br>(ft) | DEPTH TO WATER<br>(ft) | TOTAL DEPTH<br>(ft) | SAMPLING TIME | pH   | CONDUCT<br>(umhos) | TEMP.<br>(celcius) | VOLUME PURGED<br>(gal.) |
|--------|--------------------|---------------------|------------------------|---------------------|---------------|------|--------------------|--------------------|-------------------------|
| 1      | 105.41             | 90.98               | 14.43                  | 19.50               | -             | -    | -                  | -                  | -                       |
| 2      | 102.98             | 90.80               | 12.18                  | 18.00               | -             | -    | -                  | -                  | -                       |
| 3      | 102.25             | 90.59               | 11.66                  | 19.00               | 1015          | 7.27 | 1,500              | 20.0               | 3.75                    |
| 4      | 101.28             | 90.56               | 10.72                  | 16.00               | -             | -    | -                  | -                  | -                       |

|                                  |                 |              |
|----------------------------------|-----------------|--------------|
| <b>INSTRUMENT CALIBRATIONS =</b> | <u>7.00</u>     | <u>2,800</u> |
| <b>DATE &amp; TIME =</b>         | <u>08/09/07</u> | <u>0730</u>  |

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi r^2 X h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW# 3 . Collected sample from MW # 3 for BTEX analysis only.

Top of casing MW # 1 ~ 2.90 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.50 ft., MW # 4 ~ 2.60 ft. above grade.

**Hall Environmental Analysis Laboratory, Inc.**

Date: 20-Aug-07

CLIENT: Blagg Engineering  
Lab Order: 0708155  
Project: Chavez GC A #1  
Lab ID: 0708155-01

Client Sample ID: MW #3  
Collection Date: 8/9/2007 10:15:00 AM  
Date Received: 8/10/2007  
Matrix: AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units | DF | Date Analyzed        | Analyst: NSB |
|------------------------------------|--------|----------|------|-------|----|----------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |       |    |                      |              |
| Benzene                            | ND     | 1.0      |      | µg/L  | 1  | 8/17/2007 2:39:20 AM |              |
| Toluene                            | ND     | 1.0      |      | µg/L  | 1  | 8/17/2007 2:39:20 AM |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L  | 1  | 8/17/2007 2:39:20 AM |              |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L  | 1  | 8/17/2007 2:39:20 AM |              |
| Surr: 4-Bromofluorobenzene         | 88.0   | 70.2-105 |      | %REC  | 1  | 8/17/2007 2:39:20 AM |              |

Qualifiers: \* Value exceeds Maximum Contaminant Level  
E Value above quantitation range  
J Analyte detected below quantitation limits  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
MCL Maximum Contaminant Level  
RL Reporting Limit

## **CHAIN-OF-CUSTODY RECORD**

Client: BLAGG ENGR. / BP AMERICA

Address: P.O. BOX 87  
BLFO, NM 87413

Phone #: 632-1199

Fax 并;

|        |       |                              |
|--------|-------|------------------------------|
| Date:  | Time: | Relinquished By: (Signature) |
| 8/9/07 | 1730  | T. Thompson                  |
| Date:  | Time: | Relinquished By: (Signature) |

## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: Chavez GC A #1

Work Order: 0708155

| Analyte                    | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD             | RPDLimit       | Qual                  |
|----------------------------|--------|-------|-----|------|----------|-----------|------------------|----------------|-----------------------|
| <b>Method: SW8021</b>      |        |       |     |      |          |           |                  |                |                       |
| Sample ID: 5ML RB          |        | MBLK  |     |      |          |           | Batch ID: R24795 | Analysis Date: | 8/16/2007 9:09:22 AM  |
| Benzene                    | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Toluene                    | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Ethylbenzene               | ND     | µg/L  | 1.0 |      |          |           |                  |                |                       |
| Xylenes, Total             | ND     | µg/L  | 2.0 |      |          |           |                  |                |                       |
| Sample ID: 100NG BTEX LCS  |        | LCS   |     |      |          |           | Batch ID: R24795 | Analysis Date: | 8/16/2007 11:09:32 AM |
| Benzene                    | 20.13  | µg/L  | 1.0 | 101  | 85.9     | 113       |                  |                |                       |
| Toluene                    | 20.42  | µg/L  | 1.0 | 102  | 86.4     | 113       |                  |                |                       |
| Ethylbenzene               | 20.40  | µg/L  | 1.0 | 102  | 83.5     | 118       |                  |                |                       |
| Xylenes, Total             | 61.37  | µg/L  | 2.0 | 102  | 83.4     | 122       |                  |                |                       |
| Sample ID: 100NG BTEX LCSD |        | LCSD  |     |      |          |           | Batch ID: R24795 | Analysis Date: | 8/17/2007 3:39:25 AM  |
| Benzene                    | 18.68  | µg/L  | 1.0 | 93.4 | 85.9     | 113       | 7.47             | 27             |                       |
| Toluene                    | 18.45  | µg/L  | 1.0 | 92.2 | 86.4     | 113       | 10.1             | 19             |                       |
| Ethylbenzene               | 18.87  | µg/L  | 1.0 | 94.4 | 83.5     | 118       | 7.78             | 10             |                       |
| Xylenes, Total             | 56.44  | µg/L  | 2.0 | 94.1 | 83.4     | 122       | 8.37             | 13             |                       |

## Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

8/10/2017

Work Order Number 0708155

Received by ARS

Checklist completed by

Signature

8/10/07  
Date

Matrix

Carrier name Greyhound

|   |   |   |   |
|---|---|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/> Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>   |
| Water - Preservation labels on bottle and cap match?    | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/>                                   |
| Container/Temp Blank temperature?                       | 4°  | 4° C ± 2 Acceptable                     | If given sufficient time to cool.   |

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N/A

**CHAVEZ GC A #1**

**LABORATORY (S) USED:** HALL ENVIRONMENTAL

**UNIT G, SEC. 3, T29N, R9W**

**Date:** September 19, 2007

**SAMPLER:** N J V

**Filename:** 09-19-07.WK4

**PROJECT MANAGER:** J C B

| WELL # | WELL ELEV. (ft) | WATER ELEV. (ft) | DEPTH TO WATER (ft) | TOTAL DEPTH (ft) | SAMPLING TIME | pH   | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED (gal.) |
|--------|-----------------|------------------|---------------------|------------------|---------------|------|-----------------|-----------------|----------------------|
| 1      | 105.41          | -                | -                   | 19.50            | -             | -    | -               | -               | -                    |
| 2      | 102.98          | -                | -                   | 18.00            | -             | -    | -               | -               | -                    |
| 3      | 102.28          | 92.50            | 9.78                | 19.00            | -             | -    | -               | -               | -                    |
| 4      | 101.28          | 92.42            | 8.86                | 16.00            | -             | -    | -               | -               | -                    |
| 5      | 101.48          | 91.99            | 9.49                | 17.35            | 1025          | 7.00 | 1,200           | 23.1            | 4.00                 |
| 6      | 102.55          | 92.24            | 10.31               | 17.50            | 1015          | 6.91 | 1,200           | 22.5            | 3.50                 |
| 7      | 101.66          | 92.35            | 9.31                | 17.37            | 1105          | 6.92 | 4,100           | 23.3            | 4.00                 |

|                                  |                 |              |
|----------------------------------|-----------------|--------------|
| <b>INSTRUMENT CALIBRATIONS =</b> | <u>7.00</u>     | <u>2,800</u> |
| <b>DATE &amp; TIME =</b>         | <u>09/17/07</u> | <u>0945</u>  |

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi X r^2 X h X 7.48 \text{ gal./ft}^3 X 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #5, #6, #7, all murky brown in appearance, hydrocarbon odor detected physically in MW #7 only, collected BTEX, anions, iron, pH, TDS samples from MW #5, #6, & #7.

Top of casing MW #1 ~ 2.90 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.50 ft., MW #4 ~ 2.60 ft.,  
MW #5 ~ 3.40 ft., MW #6 ~ 3.55 ft., MW #7 ~ 2.80 ft. above grade.

**Hall Environmental Analysis Laboratory, Inc.**

Date: 02-Oct-07

**CLIENT:** Blagg Engineering  
**Lab Order:** 0709289  
**Project:** Chavez GC A #1  
**Lab ID:** 0709289-01

**Client Sample ID:** MW #5  
**Collection Date:** 9/19/2007 10:25:00 AM  
**Date Received:** 9/21/2007  
**Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units    | DF | Date Analyzed        |
|------------------------------------|--------|----------|------|----------|----|----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |          |    |                      |
| Benzene                            | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 3:57:18 PM |
| Toluene                            | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 3:57:18 PM |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 3:57:18 PM |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L     | 1  | 9/28/2007 3:57:18 PM |
| Surr: 4-Bromofluorobenzene         | 87.4   | 70.2-105 |      | %REC     | 1  | 9/28/2007 3:57:18 PM |
| <b>EPA METHOD 300.0: ANIONS</b>    |        |          |      |          |    |                      |
| Fluoride                           | 0.63   | 0.10     |      | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Chloride                           | 19     | 0.10     |      | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Nitrogen, Nitrile (As N)           | ND     | 0.10     | H    | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Bromide                            | 0.22   | 0.10     |      | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Nitrogen, Nitrate (As N)           | ND     | 0.10     | H    | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Phosphorus, Orthophosphate (As P)  | ND     | 0.50     | H    | mg/L     | 1  | 9/22/2007 9:36:43 AM |
| Sulfate                            | 410    | 5.0      |      | mg/L     | 10 | 9/22/2007 9:54:08 AM |
| <b>FERROUS IRON</b>                |        |          |      |          |    |                      |
| Ferrous Iron                       | 0.38   | 0.10     |      | mg/L     | 1  | 10/1/2007            |
| <b>SM4500-H+B: PH</b>              |        |          |      |          |    |                      |
| pH                                 | 7.23   | 0.1      |      | pH units | 1  | 9/24/2007            |
| <b>SM 2540C: TDS</b>               |        |          |      |          |    |                      |
| Total Dissolved Solids             | 1300   | 400      |      | mg/L     | 1  | 9/21/2007            |

**Qualifiers:**   
 D Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Oct-07

|                   |                   |                          |                       |
|-------------------|-------------------|--------------------------|-----------------------|
| <b>CLIENT:</b>    | Blagg Engineering | <b>Client Sample ID:</b> | MW #6                 |
| <b>Lab Order:</b> | 0709289           | <b>Collection Date:</b>  | 9/19/2007 10:15:00 AM |
| <b>Project:</b>   | Chavez GC A #1    | <b>Date Received:</b>    | 9/21/2007             |
| <b>Lab ID:</b>    | 0709289-02        | <b>Matrix:</b>           | AQUEOUS               |

| Analyses                           | Result | PQL      | Qual | Units    | DF | Date Analyzed         |              |
|------------------------------------|--------|----------|------|----------|----|-----------------------|--------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |          |    |                       |              |
| Benzene                            | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 4:27:16 PM  | Analyst: NSB |
| Toluene                            | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 4:27:16 PM  |              |
| Ethylbenzene                       | ND     | 1.0      |      | µg/L     | 1  | 9/28/2007 4:27:16 PM  |              |
| Xylenes, Total                     | ND     | 2.0      |      | µg/L     | 1  | 9/28/2007 4:27:16 PM  |              |
| Surr: 4-Bromofluorobenzene         | 83.8   | 70.2-105 |      | %REC     | 1  | 9/28/2007 4:27:16 PM  |              |
| <b>EPA METHOD 300.0: ANIONS</b>    |        |          |      |          |    |                       |              |
| Fluoride                           | 0.44   | 0.10     |      | mg/L     | 1  | 9/22/2007 10:11:32 AM | Analyst: KS  |
| Chloride                           | 21     | 0.10     |      | mg/L     | 1  | 9/22/2007 10:11:32 AM |              |
| Nitrogen, Nitrite (As N)           | ND     | 0.10     | H    | mg/L     | 1  | 9/22/2007 10:11:32 AM |              |
| Bromide                            | 0.15   | 0.10     |      | mg/L     | 1  | 9/22/2007 10:11:32 AM |              |
| Nitrogen, Nitrate (As N)           | ND     | 0.10     | H    | mg/L     | 1  | 9/22/2007 10:11:32 AM |              |
| Phosphorus, Orthophosphate (As P)  | ND     | 0.50     | H    | mg/L     | 1  | 9/22/2007 10:11:32 AM |              |
| Sulfate                            | 270    | 5.0      |      | mg/L     | 10 | 9/22/2007 11:03:45 AM |              |
| <b>FERROUS IRON</b>                |        |          |      |          |    |                       |              |
| Ferrous Iron                       | ND     | 0.10     |      | mg/L     | 1  | 10/1/2007             | Analyst: KS  |
| <b>SM4500-H+B: PH</b>              |        |          |      |          |    |                       |              |
| pH                                 | 7.02   | 0.1      |      | pH units | 1  | 9/24/2007             | Analyst: SMP |
| <b>SM 2540C: TDS</b>               |        |          |      |          |    |                       |              |
| Total Dissolved Solids             | 1000   | 200      |      | mg/L     | 1  | 9/21/2007             | Analyst: TAF |

Qualifiers:

- V: Value exceeds Maximum Contaminant Level
- E: Value above quantitation range
- J: Analyte detected below quantitation limits
- ND: Not Detected at the Reporting Limit
- S: Spike recovery outside accepted recovery limits

B: Analyte detected in the associated Method Blank  
 H: Holding times for preparation or analysis exceeded  
 MCL: Maximum Contaminant Level  
 RL: Reporting Limit

## Hall Environmental Analysis Laboratory, Inc.

Date: 02-Oct-07

**CLIENT:** Blagg Engineering  
**Lab Order:** 0709289  
**Project:** Chavez GC A #1  
**Lab ID:** 0709289-03

**Client Sample ID:** MW #7  
**Collection Date:** 9/19/2007 11:05:00 AM  
**Date Received:** 9/21/2007  
**Matrix:** AQUEOUS

| Analyses                           | Result | PQL      | Qual | Units    | DF  | Date Analyzed         |
|------------------------------------|--------|----------|------|----------|-----|-----------------------|
| <b>EPA METHOD 8021B: VOLATILES</b> |        |          |      |          |     |                       |
| Benzene                            | ND     | 1.0      |      | µg/L     | 1   | 9/28/2007 4:57:17 PM  |
| Toluene                            | ND     | 1.0      |      | µg/L     | 1   | 9/28/2007 4:57:17 PM  |
| Ethylbenzene                       | 6.3    | 1.0      |      | µg/L     | 1   | 9/28/2007 4:57:17 PM  |
| Xylenes, Total                     | 130    | 2.0      |      | µg/L     | 1   | 9/28/2007 4:57:17 PM  |
| Surrogate: 4-Bromofluorobenzene    | 104    | 70.2-105 | %REC |          | 1   | 9/28/2007 4:57:17 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>    |        |          |      |          |     |                       |
| Fluoride                           | 2.1    | 0.10     |      | mg/L     | 1   | 9/22/2007 11:21:09 AM |
| Chloride                           | 410    | 2.0      |      | mg/L     | 20  | 9/27/2007 12:37:03 PM |
| Nitrogen, Nitrile (As N)           | ND     | 1.0      | H    | mg/L     | 10  | 9/22/2007 11:38:34 AM |
| Bromide                            | 5.6    | 0.10     |      | mg/L     | 1   | 9/22/2007 11:21:09 AM |
| Nitrogen, Nitrate (As N)           | 12     | 0.10     | H    | mg/L     | 1   | 9/22/2007 11:21:09 AM |
| Phosphorus, Orthophosphate (As P)  | ND     | 5.0      | H    | mg/L     | 10  | 9/22/2007 11:38:34 AM |
| Sulfate                            | 3400   | 50       |      | mg/L     | 100 | 9/28/2007 9:33:37 PM  |
| <b>FERROUS IRON</b>                |        |          |      |          |     |                       |
| Ferrous Iron                       | ND     | 0.10     |      | mg/L     | 1   | 10/1/2007             |
| <b>SM4500-H+B: PH</b>              |        |          |      |          |     |                       |
| pH                                 | 7.11   | 0.1      |      | pH units | 1   | 9/24/2007             |
| <b>SM 2540C: TDS</b>               |        |          |      |          |     |                       |
| Total Dissolved Solids             | 6100   | 20       |      | mg/L     | 1   | 9/21/2007             |

**Qualifiers:**  
 S Value exceeds Maximum Contaminant Level  
 F Value above quantitation range  
 J Analyte detected below quantitation limits  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 MCL Maximum Contaminant Level  
 RL Reporting Limit

# CHAIN-OF-CUSTODY RECORD

Client: BLAGG ENGR./BP AMERICA

Address: P. O. BOX 87  
BLFD., NM 87413

Phone #: 632-1199

Fax #:

|   |
|---|
| QA / QC Package:<br>Std <input type="checkbox"/> Level 4 <input type="checkbox"/> |
| Other: _____  |

Project Name: CHAVEZ GC A #1

Project #: 915

Project Manager: JCB

Sampler: NV

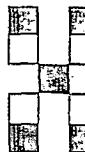
Sample Temperature: Q3

| Date    | Time | Matrix | Sample I.D. No. | Number/Volume | Preservative      |                  |     | HEAL No.<br><u>0709289</u> |
|---------|------|--------|-----------------|---------------|-------------------|------------------|-----|----------------------------|
|         |      |        |                 |               | HgCl <sub>2</sub> | HNO <sub>3</sub> | HCl |                            |
| 9/19/07 | 1025 | WATER  | MW #5           | 2-40ml        | /                 |                  |     | -1 ✓                       |
| "       | "    | "      | "               | 1-125ml       |                   | /                | -1  |                            |
| "       | "    | "      | "               | 1-500ml       |                   |                  | -1  |                            |

|         |      |       |       |         |   |   |      |
|---------|------|-------|-------|---------|---|---|------|
| 9/19/07 | 1015 | WATER | MW #6 | 2-40ml  | / |   | -2 ✓ |
| "       | "    | "     | "     | 1-125ml |   | / | -2   |
| "       | "    | "     | "     | 1-500ml |   |   | -2   |

|         |      |       |       |         |   |   |      |
|---------|------|-------|-------|---------|---|---|------|
| 9/19/07 | 1105 | WATER | MW #7 | 2-40ml  | / |   | -3 ✓ |
| "       | "    | "     | "     | 1-125ml |   | / | -3   |
| "       | "    | "     | "     | 1-500ml |   |   | -3   |

|                      |                   |  |   |                             |
|----------------------|-------------------|--|---|-----------------------------|
| Date: <u>9/19/07</u> | Time: <u>1545</u> | Relinquished By: (Signature) <u>J. Leon VF</u> | Received By: (Signature) <u>J. Leon</u> | Remarks: <u>915 9/19/07</u> |
| Date: <u></u>        | Time: <u></u>     | Relinquished By: (Signature)                   | Received By: (Signature)                | <u>145</u>                  |



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**  
4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

| ANALYSIS REQUEST   |   |
|--|---|
| <input checked="" type="checkbox"/> BTEX + MTBE + TAME + TPH (Gasoline Only)   |   |
| <input checked="" type="checkbox"/> BTEX + MTBE + TPH (Gas/Diesel)   |   |
| <input checked="" type="checkbox"/> TPH Method 8015B (Gas/Diesel)  |   |
| <input checked="" type="checkbox"/> TPH (Method 418.1)   |   |
| <input checked="" type="checkbox"/> EDB (Method 504.1)   |   |
| <input checked="" type="checkbox"/> EDC (Method 8021)  |   |
| <input checked="" type="checkbox"/> 8310 (Pb/PAH or PAH)   |   |
| <input checked="" type="checkbox"/> RCRA B Metals  |   |
| <input checked="" type="checkbox"/> Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) |   |
| <input checked="" type="checkbox"/> 8081 Pesticides / PCB's (8082)   |   |
| <input checked="" type="checkbox"/> 8260B (VOA)  |   |
| <input checked="" type="checkbox"/> 8270 (Semi-VOA)  |   |
| <input checked="" type="checkbox"/> Fe <sup>2+</sup>   | ✓ |
| <input checked="" type="checkbox"/> TiO <sub>2</sub>   | ✓ |
| <input checked="" type="checkbox"/> pH   | ✓ |
| Air Bubbles or Headspace (Y or N)  |   |

## QA/QC SUMMARY REPORT

**Client:** Blagg Engineering  
**Project:** Chavez GC A #1      **Work Order:** 0709289

| Analyte                           | Result | Units | PQL  | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|-----------------------------------|--------|-------|------|------|----------|-----------|------|----------|------|
| <b>Method: E300</b>               |        |       |      |      |          |           |      |          |      |
| Sample ID: MBLK                   |        | MBLK  |      |      |          |           |      |          |      |
| Fluoride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Chloride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Bromide                           | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sulfate                           | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sample ID: MBLK                   |        | MBLK  |      |      |          |           |      |          |      |
| Fluoride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Chloride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Bromide                           | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sulfate                           | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sample ID: MBLK                   |        | MBLK  |      |      |          |           |      |          |      |
| Fluoride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Chloride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Bromide                           | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sulfate                           | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sample ID: MBLK                   |        | MBLK  |      |      |          |           |      |          |      |
| Fluoride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Chloride                          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrite (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Bromide                           | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Nitrogen, Nitrate (As N)          | ND     | mg/L  | 0.10 |      |          |           |      |          |      |
| Phosphorus, Orthophosphate (As P) | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sulfate                           | ND     | mg/L  | 0.50 |      |          |           |      |          |      |
| Sample ID: LCS ST300-07038        | LCS    |       |      |      |          |           |      |          |      |
| Fluoride                          | 0.4835 | mg/L  | 0.10 | 96.7 | 90       | 110       |      |          |      |
| Chloride                          | 4.993  | mg/L  | 0.10 | 99.9 | 90       | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 0.9295 | mg/L  | 0.10 | 93.0 | 90       | 110       |      |          |      |
| Bromide                           | 2.591  | mg/L  | 0.10 | 104  | 90       | 110       |      |          |      |
| Nitrogen, Nitrate (As N)          | 2.590  | mg/L  | 0.10 | 104  | 90       | 110       |      |          |      |
| Phosphorus, Orthophosphate (As P) | 5.342  | mg/L  | 0.50 | 107  | 90       | 110       |      |          |      |
| Sulfate                           | 10.35  | mg/L  | 0.50 | 103  | 90       | 110       |      |          |      |
| Sample ID: LCS ST300-07038        | LCS    |       |      |      |          |           |      |          |      |
| Fluoride                          | 0.5198 | mg/L  | 0.10 | 104  | 90       | 110       |      |          |      |
| Chloride                          | 5.048  | mg/L  | 0.10 | 101  | 90       | 110       |      |          |      |
| Nitrogen, Nitrite (As N)          | 0.9611 | mg/L  | 0.10 | 96.1 | 90       | 110       |      |          |      |

## Qualifiers:

- I: Value above quantitation range
- J: Analyte detected below quantitation limits
- R: RPD outside accepted recovery limits
- H: Holding times for preparation or analysis exceeded
- ND: Not Detected at the Reporting Limit
- S: Spike recovery outside accepted recovery limits

## QA/QC SUMMARY REPORT

Client: Biagg Engineering  
 Project: Chavez GC A #1 Work Order: 0709289

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: E300

Sample ID: LCS ST300-07038      LCS      Batch ID: R25281      Analysis Date: 9/22/2007 7:52:16 AM

|                                   |       |      |      |     |    |     |  |  |  |
|-----------------------------------|-------|------|------|-----|----|-----|--|--|--|
| Bromide                           | 2.627 | mg/L | 0.10 | 105 | 90 | 110 |  |  |  |
| Nitrogen, Nitrate (As N)          | 2.595 | mg/L | 0.10 | 104 | 90 | 110 |  |  |  |
| Phosphorus, Orthophosphate (As P) | 5.427 | mg/L | 0.50 | 109 | 90 | 110 |  |  |  |
| Sulfate                           | 10.51 | mg/L | 0.50 | 105 | 90 | 110 |  |  |  |

Sample ID: LCS ST300-07038      LCS      Batch ID: R25359      Analysis Date: 9/27/2007 3:37:21 AM

|                                   |        |      |      |      |    |     |  |  |  |
|-----------------------------------|--------|------|------|------|----|-----|--|--|--|
| Fluoride                          | 0.5043 | mg/L | 0.10 | 101  | 90 | 110 |  |  |  |
| Chloride                          | 5.069  | mg/L | 0.10 | 101  | 90 | 110 |  |  |  |
| Nitrogen, Nitrite (As N)          | 0.9621 | mg/L | 0.10 | 96.2 | 90 | 110 |  |  |  |
| Bromide                           | 2.647  | mg/L | 0.10 | 106  | 90 | 110 |  |  |  |
| Nitrogen, Nitrate (As N)          | 2.628  | mg/L | 0.10 | 105  | 90 | 110 |  |  |  |
| Phosphorus, Orthophosphate (As P) | 5.428  | mg/L | 0.50 | 109  | 90 | 110 |  |  |  |
| Sulfate                           | 10.47  | mg/L | 0.50 | 105  | 90 | 110 |  |  |  |

Sample ID: LCS ST300-07038      LCS      Batch ID: R25394      Analysis Date: 9/28/2007 4:37:40 PM

|                                   |        |      |      |      |    |     |  |  |  |
|-----------------------------------|--------|------|------|------|----|-----|--|--|--|
| Fluoride                          | 0.5194 | mg/L | 0.10 | 104  | 90 | 110 |  |  |  |
| Chloride                          | 5.066  | mg/L | 0.10 | 101  | 90 | 110 |  |  |  |
| Nitrogen, Nitrite (As N)          | 0.9285 | mg/L | 0.10 | 92.9 | 90 | 110 |  |  |  |
| Bromide                           | 2.632  | mg/L | 0.10 | 105  | 90 | 110 |  |  |  |
| Nitrogen, Nitrate (As N)          | 2.601  | mg/L | 0.10 | 104  | 90 | 110 |  |  |  |
| Phosphorus, Orthophosphate (As P) | 5.318  | mg/L | 0.50 | 106  | 90 | 110 |  |  |  |
| Sulfate                           | 10.45  | mg/L | 0.50 | 105  | 90 | 110 |  |  |  |

Method: SW3500

Sample ID: 0709289-02C MSD      MSD      Batch ID: R25391      Analysis Date: 10/1/2007

|                           |        |      |      |      |                  |     |                |    |           |
|---------------------------|--------|------|------|------|------------------|-----|----------------|----|-----------|
| Ferrous Iron              | 0.7500 | mg/L | 0.10 | 75.0 | 50               | 150 | 5.90           | 20 |           |
| Sample ID: 0709289-02C MS |        | MS   |      |      | Batch ID: R25391 |     | Analysis Date: |    | 10/1/2007 |
| Ferrous Iron              | 0.7070 | mg/L | 0.10 | 70.7 | 50               | 150 |                |    |           |

Method: SW8021

Sample ID: 5ML RB      MBLK      Batch ID: R25381      Analysis Date: 9/28/2007 8:53:47 AM

|                |    |      |     |  |  |  |  |  |  |
|----------------|----|------|-----|--|--|--|--|--|--|
| Benzene        | ND | µg/L | 1.0 |  |  |  |  |  |  |
| Toluene        | ND | µg/L | 1.0 |  |  |  |  |  |  |
| Ethylbenzene   | ND | µg/L | 1.0 |  |  |  |  |  |  |
| Xylenes, Total | ND | µg/L | 2.0 |  |  |  |  |  |  |

Sample ID: 100NG BTEX LCS      LCS      Batch ID: R25381      Analysis Date: 9/28/2007 10:54:15 AM

|                |       |      |     |     |      |     |  |  |  |
|----------------|-------|------|-----|-----|------|-----|--|--|--|
| Benzene        | 20.62 | µg/L | 1.0 | 103 | 85.9 | 113 |  |  |  |
| Toluene        | 20.93 | µg/L | 1.0 | 104 | 86.4 | 113 |  |  |  |
| Ethylbenzene   | 20.92 | µg/L | 1.0 | 105 | 83.5 | 118 |  |  |  |
| Xylenes, Total | 63.02 | µg/L | 2.0 | 105 | 83.4 | 122 |  |  |  |

## Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- H Holding time for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

## QA/QC SUMMARY REPORT

**Client:** Blagg Engineering  
**Project:** Chavez GC A #1                            **Work Order:** 0709289

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

**Method:** E160.1

**Sample ID:** MB-13906                            **MBLK**    **Batch ID:** 13906    **Analysis Date:** 9/21/2007

Total Dissolved Solids                            **ND**    **mg/L**    **20**

**Sample ID:** LCS-13906                            **LCS**    **Batch ID:** 13906    **Analysis Date:** 9/21/2007

Total Dissolved Solids                            **1018**    **mg/L**    **20**    **100**    **80**    **120**

**Qualifiers:**

E Value above quantitation range  
J Analyte detected below quantitation limits  
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
S Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

9/21/2007

Work Order Number 0709289

Received by AT

Checklist completed by Clare Shan

Signature

Date

9/21/07

Matrix

Carrier name UPS

|   |   |   |   |                                      |
|---|---|---|---|--------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    |                                      |
| Custody seals intact on shipping container/cooler?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>    | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | N/A <input checked="" type="checkbox"/> |                                      |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |                                      |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>             |                                      |
| Water - Preservation labels on bottle and cap match?    | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | N/A <input type="checkbox"/>            |                                      |
| Water - pH acceptable upon receipt?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | N/A <input type="checkbox"/>            |                                      |
| Container/Temp Blank temperature?                       | 23°   | 4° C ± 2° Acceptable                    |   |                                      |

COMMENTS:

If given sufficient time to cool.

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

**BLAGG ENGINEERING, INC.**

**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N/A

**CHAVEZ GC A #1**

**LABORATORY (S) USED:** HALL ENVIRONMENTAL

**UNIT G, SEC. 3, T29N, R9W**

**Date:** November 20, 2007

**SAMPLER:** NJV

**Filename:** 11-20-07.WK4

**PROJECT MANAGER:** JCB

| WELL # | WELL ELEV. (ft) | WATER ELEV. (ft) | DEPTH TO WATER (ft) | TOTAL DEPTH (ft) | SAMPLING TIME | pH   | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED (gal.) |
|--------|-----------------|------------------|---------------------|------------------|---------------|------|-----------------|-----------------|----------------------|
| 1      | 105.41          | -                | -                   | 19.50            | -             | -    | -               | -               | -                    |
| 2      | 102.98          | -                | -                   | 18.00            | -             | -    | -               | -               | -                    |
| 3      | 102.28          | 91.35            | 10.93               | 19.00            | -             | -    | -               | -               | -                    |
| 4      | 101.28          | 91.39            | 9.89                | 16.00            | -             | -    | -               | -               | -                    |
| 5      | 101.48          | 90.47            | 11.01               | 17.35            | 1315          | 7.28 | 1,200           | 18.5            | 3.00                 |
| 6      | 102.55          | 90.71            | 11.84               | 17.50            | 1325          | 7.06 | 1,300           | 17.4            | 2.75                 |
| 7      | 101.66          | 91.32            | 10.34               | 17.37            | 1415          | 7.19 | 4,000           | 16.9            | 3.50                 |

|                                  |          |       |
|----------------------------------|----------|-------|
| <b>INSTRUMENT CALIBRATIONS =</b> | 7.00     | 2,800 |
| <b>DATE &amp; TIME =</b>         | 11/20/07 | 1100  |

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi X r^2 X h X 7.48 \text{ gal./ft}^3 X 3 \text{ (wellbores)}$ .  
 (i.e. 2" MW  $r = (1/12) \text{ ft.}$   $h = 1 \text{ ft.}$ ) (i.e. 4" MW  $r = (2/12) \text{ ft.}$   $h = 1 \text{ ft.}$ )

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #5, #6, #7, all murky brown in appearance, slight hydrocarbon odor detected physically in MW #7 only, collected BTEX samples from MW #5, #6, & #7 only.

#6, & #7.

Top of casing MW #1 ~ 2.90 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.50 ft., MW #4 ~ 2.60 ft.,  
 MW #5 ~ 3.40 ft., MW #6 ~ 3.55 ft., MW #7 ~ 2.80 ft. above grade.



## **CHAIN-OF-CUSTODY RECORD**

Client: BEAGE ENGR / BP AMERICA

Address: P.O. BOX 87  
BED, NM 87413

Phone #: 632-1199

Fax #:

QA/QC Package:  
Std  Level 4



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**  
4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

## **ANALYSIS REQUEST**

| ANALYSIS REQUEST   |                                   |
|--|-----------------------------------|
| BTEX + MBBE + TMBE (8012B)   |                                   |
| BTEX + MBBE + TPH (Gasoline Only)  |                                   |
| TPH Method 8015B (Gas/Diesel)  |                                   |
| TPH (Method 418.1)   |                                   |
| EDB (Method 504.1)   |                                   |
| EDC (Method 8021)  |                                   |
| 8310 (PNA or PAH)  |                                   |
| RCRA 8 Metals  |                                   |
| Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) |                                   |
| 8081 Pesticides / PCB's (80082)  |                                   |
| 8260B (VOA)  |                                   |
| 8270 (Semi: VOA)   |                                   |
|  | Air Bubbles or Headspace (Y or N) |

|          |       |                              |                          |
|----------|-------|------------------------------|--------------------------|
| Date:    | Time: | Relinquished By: [Signature] | Received By: [Signature] |
| 11/20/07 | 1600  | <i>Melissa W</i>             | <i>Chris J.</i>          |

## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: Chavez GC A #1 Work Order: 0711368

| Analyte | Result | Units | PQL | %Rec | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|
|---------|--------|-------|-----|------|----------|-----------|------|----------|------|

Method: EPA Method 8021B: Volatiles

|                           |       |      |     |      |           |        |                |                       |
|---------------------------|-------|------|-----|------|-----------|--------|----------------|-----------------------|
| Sample ID: 5ML RB         | MBLK  |      |     |      | Batch ID: | R26267 | Analysis Date: | 11/28/2007 8:42:41 AM |
| Benzene                   | ND    | µg/L | 1.0 |      |           |        |                |                       |
| Toluene                   | ND    | µg/L | 1.0 |      |           |        |                |                       |
| Ethylbenzene              | ND    | µg/L | 1.0 |      |           |        |                |                       |
| Xylenes, Total            | ND    | µg/L | 2.0 |      |           |        |                |                       |
| Sample ID: 100NG BTEX LCS | LCS   |      |     |      | Batch ID: | R26267 | Analysis Date: | 11/29/2007 2:16:42 AM |
| Benzene                   | 20.23 | µg/L | 1.0 | 101  | 85.9      | 113    |                |                       |
| Toluene                   | 19.91 | µg/L | 1.0 | 99.6 | 86.4      | 113    |                |                       |
| Ethylbenzene              | 19.97 | µg/L | 1.0 | 99.8 | 83.5      | 118    |                |                       |
| Xylenes, Total            | 59.65 | µg/L | 2.0 | 99.4 | 83.4      | 122    |                |                       |

## Qualifiers:

E Value above quantitation range  
 J Analyte detected below quantitation limits  
 R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded  
 ND Not Detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

# Hall Environmental Analysis Laboratory, Inc.

## Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

11/21/2007

Work Order Number **0711368**

Received by: **AT**

Checklist completed by:

*Dave Sh*  
Signature

Sample ID labels checked by

*YB*  
Initials

*11/21/07*  
Date

Matrix

Carrier name **UPS**

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

COMMENTS:

-----

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** 156386

**CHAVEZ GC A # 1**

**LABORATORY (S) USED:** PACE ANALYTICAL

**UNIT G, SEC. 3, T29N, R9W**

**Date:** April 3, 2008

**SAMPLER:** N J V

**Filename:** 04-03-08.WK4

**PROJECT MANAGER:** J C B

| WELL # | WELL ELEV. (ft) | WATER ELEV. (ft) | DEPTH TO WATER (ft) | TOTAL DEPTH (ft) | SAMPLING TIME | pH   | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED (gal.) |
|--------|-----------------|------------------|---------------------|------------------|---------------|------|-----------------|-----------------|----------------------|
| 1      | 105.41          | -                | -                   | 19.50            | -             | -    | -               | -               | -                    |
| 2      | 102.98          | -                | -                   | 18.00            | -             | -    | -               | -               | -                    |
| 3      | 102.28          | 91.38            | 10.90               | 19.00            | -             | -    | -               | -               | -                    |
| 4      | 101.28          | 91.85            | 9.43                | 16.00            | -             | -    | -               | -               | -                    |
| 5      | 101.48          | 90.44            | 11.04               | 17.35            | 1100          | 7.12 | 1,200           | 14.4            | 3.00                 |
| 6      | 102.55          | 90.86            | 11.69               | 17.50            | 1130          | 6.85 | 1,500           | 12.7            | 3.00                 |
| 7      | 101.66          | 91.37            | 10.29               | 17.37            | 1200          | 6.99 | 3,800           | 11.1            | 3.50                 |

|                                  |                 |       |
|----------------------------------|-----------------|-------|
| <b>INSTRUMENT CALIBRATIONS =</b> | 4.01/7.00/10.00 | 2,800 |
| <b>DATE &amp; TIME =</b>         | 04/03/08        | 1030  |

**NOTES:** Volume of water purged from well prior to sampling:  $V = \pi r^2 h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
(i.e. 2" MW  $r = (1/12) \text{ ft.}$   $h = 1 \text{ ft.}$ ) (i.e. 4" MW  $r = (2/12) \text{ ft.}$   $h = 1 \text{ ft.}$ )

Ideally a minimum of three (3) wellbore volumes:

2.00" well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #5, #6, #7, all murky brown in appearance, slight hydrocarbon odor detected physically in MW #7 only, collected sample for BTEX per US EPA Method 8260 from MW #5, #6, & #7 only.

Top of casing MW #1 ~ 2.90 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.50 ft., MW #4 ~ 2.60 ft., MW #5 ~ 3.40 ft., MW #6 ~ 3.55 ft., MW #7 ~ 2.80 ft. above grade.

## ANALYTICAL RESULTS

Project: CHAVEZ GC A #1

Pace Project No.: 6038270

| Sample: MW #5             | Lab ID: 6038270001          | Collected: 04/03/08 11:00 | Received: 04/08/08 08:45 | Matrix: Water |          |                |            |      |
|---------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                | Results                     | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| 8260 MSV UST, Water       | Analytical Method: EPA 8260 |                           |                          |               |          |                |            |      |
| Benzene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 04/11/08 18:11 | 71-43-2    |      |
| Ethylbenzene              | ND ug/L                     |                           | 1.0                      | 1             |          | 04/11/08 18:11 | 100-41-4   |      |
| Toluene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 04/11/08 18:11 | 108-88-3   |      |
| Xylene (Total)            | ND ug/L                     |                           | 3.0                      | 1             |          | 04/11/08 18:11 | 1330-20-7  |      |
| Dibromofluoromethane (S)  | 98 %                        |                           | 85-114                   | 1             |          | 04/11/08 18:11 | 1868-63-7  |      |
| Toluene-d8 (S)            | 100 %                       |                           | 82-114                   | 1             |          | 04/11/08 18:11 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)  | 95 %                        |                           | 85-119                   | 1             |          | 04/11/08 18:11 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S) | 102 %                       |                           | 81-118                   | 1             |          | 04/11/08 18:11 | 17060-07-0 |      |
| Preservation pH           | 1.0                         |                           |                          | 1.0           | 1        | 04/11/08 18:11 |            |      |

Date: 04/15/2008 05:50 PM

## REPORT OF LABORATORY ANALYSIS

Page 5 of 10

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## ANALYTICAL RESULTS

Project: CHAVEZ GC A #1  
Pace Project No.: 6038270

| Sample: MW #6              | Lab ID: 6038270002                 | Collected: 04/03/08 11:30 | Received: 04/08/08 08:45 | Matrix: Water |          |                |            |      |
|----------------------------|------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                 | Results                            | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> | <b>Analytical Method: EPA 8260</b> |                           |                          |               |          |                |            |      |
| Benzene                    | ND ug/L                            |                           | 1.0                      | 1             |          | 04/11/08 18:27 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L                            |                           | 1.0                      | 1             |          | 04/11/08 18:27 | 100-41-4   |      |
| Toluene                    | ND ug/L                            |                           | 1.0                      | 1             |          | 04/11/08 18:27 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L                            |                           | 3.0                      | 1             |          | 04/11/08 18:27 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 98 %                               |                           | 85-114                   | 1             |          | 04/11/08 18:27 | 1868-53-7  |      |
| Toluene-d8 (S)             | 101 %                              |                           | 82-114                   | 1             |          | 04/11/08 18:27 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 94 %                               |                           | 85-119                   | 1             |          | 04/11/08 18:27 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %                              |                           | 81-118                   | 1             |          | 04/11/08 18:27 | 17060-07-0 |      |
| Preservation pH            | 1.0                                |                           |                          | 1.0           | 1        | 04/11/08 18:27 |            |      |

Date: 04/15/2008 05:50 PM

## REPORT OF LABORATORY ANALYSIS

Page 6 of 10

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## ANALYTICAL RESULTS

Project: CHAVEZ GCA #1  
Pace Project No.: 6038270

| Sample: MW #7              | Lab ID: 6038270003                 | Collected: 04/03/08 12:00 | Received: 04/08/08 08:45 | Matrix: Water |          |                |            |      |
|----------------------------|------------------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                 | Results                            | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> | <b>Analytical Method: EPA 8260</b> |                           |                          |               |          |                |            |      |
| Benzene                    | ND ug/L                            |                           | 1.0                      | 1             |          | 04/11/08 18:44 | 71-43-2    |      |
| Ethylbenzene               | 3.5 ug/L                           |                           | 1.0                      | 1             |          | 04/11/08 18:44 | 100-41-4   |      |
| Toluene                    | ND ug/L                            |                           | 1.0                      | 1             |          | 04/11/08 18:44 | 108-88-3   |      |
| Xylene (Total)             | 28.4 ug/L                          |                           | 3.0                      | 1             |          | 04/11/08 18:44 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 99 %                               |                           | 85-114                   | 1             |          | 04/11/08 18:44 | 1868-53-7  |      |
| Toluene-d8 (S)             | 102 %                              |                           | 82-114                   | 1             |          | 04/11/08 18:44 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 102 %                              |                           | 85-119                   | 1             |          | 04/11/08 18:44 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %                              |                           | 81-118                   | 1             |          | 04/11/08 18:44 | 17060-07-0 |      |
| Preservation pH            | 1.0                                |                           | 1.0                      | 1             |          | 04/11/08 18:44 |            |      |

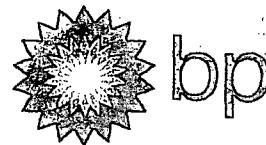
Date: 04/15/2008 05:50 PM

## REPORT OF LABORATORY ANALYSIS

Page 7 of 10

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156386

Page 1 of 1

## Chain of Custody Record

Project Name: CHAVEZ GC A #1

BP BU/AR Region/Envos Segment: SAN JUAN GC SOUTH

State or Lead Regulatory Agency: NMOCO

Requested Due Date (mm/dd/yy): 4/17/08

|                        |                                |       |      |
|------------------------|--------------------------------|-------|------|
| On-site Time:          | 10:05                          | Temp: | 55°F |
| Off-site Time:         | 12:30                          | Temp: | 59°F |
| Sky Conditions:        | SUNNY TO PARTLY CLOUDY         |       |      |
| Meteorological Events: |                                |       |      |
| Wind Speed:            | 0-5 (GUST >15) Direction: WEST |       |      |

| Lab Name: PAGE ANALYTICAL<br>Address: 9608 LOIRET BLVD<br>LENEXA, KS 66219<br>Lab PM: MARY JANE WHEELS<br>Tele/Fax: (913)599-5665 FAX: (913)599-1759<br>BP/AR PM Contact: MIKE WHEELS PG<br>Address: 501 WESTLAKE PARK BLVD.<br>Rm 28144B Houston, TX 77079<br>Tele/Fax: (281)366-7485 FAX: (281)366-1094 |                    |       |        | BP/AR Facility No.: WR 192504<br>BP/AR Facility Address:<br>Site Lat/Long:<br>California Global ID No.:<br>Envos Project No.: 0019 L<br>Provision or RCOP (circle one)<br>Phase/WBS:<br>Sub Phase/Task:<br>Cost Element: 01 |              |     |                | Consultant/Contractor: BLAGG/URS<br>Address: 110 N. FOURTH ST.<br>BLOOMFIELD, NM 87413<br>Consultant/Contractor Project No.: 41008137<br>Consultant/Contractor PM: NELSON VELEZ<br>Tele/Fax: (505) 632-1199 FAX: (505)632-3988<br>Report Type & QC Level: STANDARD<br>E-mail EDD To: blagg-njve@yahoo.com<br>Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one) |             |                                |                  | Preservative       |          |           |          | Requested Analysis |          |          |     | Sample Point Lat/Long and Comments<br><i>(6038270)</i> |
|---|--------------------|-------|--------|---|--------------|-----|----------------|--|-------------|--------------------------------|------------------|--------------------|----------|-----------|----------|--------------------|----------|----------|-----|--|
| Lab Bottle Order No:  |                    |       |        | Matrix  |              |     |                | Preservative   |             |                                |                  | Requested Analysis |          |           |          |                    |          |          |     | Sample Point Lat/Long and Comments                     |
| Item No.  | Sample Description | Time  | Date   | Soil/Solid  | Water/Liquid | Air | Laboratory No. | No. of Containers  | Unpreserved | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | HCl                | Methanol | BTEX 8021 | BTEX/TPH | BTEX/Oxy/TPH       | EPA 3260 | EPA 8270 |     |  |
| 1   | MW # 5             | 1100  | 4/3/08 | ✓   |              |     |                | 3  |             |                                | ✓                |                    |          |           | ✓        | 300ml              |          |          | 001 |  |
| 2   | MW # 6             | 1130  | 4/3/08 | ✓   |              |     |                | 3  |             |                                | ✓                |                    |          |           | ✓        |                    |          |          | 002 |  |
| 3   | MW # 7             | 12:00 | 4/3/08 | ✓   |              |     |                | 3  |             |                                | ✓                |                    |          |           | ✓        |                    |          |          | 003 |  |
| 4   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 5   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 6   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 7   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 8   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 9   |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |
| 10  |                    |       |        |   |              |     |                |  |             |                                |                  |                    |          |           |          |                    |          |          |     |  |

| Sampler's Name:                            | Relinquished By / Affiliation | Date    | Time | Accepted By / Affiliation | Date | Time |
|--|-------------------------------|---------|------|---------------------------|------|------|
| Sampler's Company: BLAGG ENGINEERING, INC. | Nelson Velez - BLAGG ENGR.    | 4/17/08 | 1530 |                           |      |      |
| Shipment Date: APRIL 7, 2008               |                               |         |      |                           |      |      |
| Shipment Method: FEDEX OVERNITE            |                               |         |      |                           |      |      |
| Shipment Tracking No:                      |                               |         |      |                           |      |      |

| Special Instructions:  | REPORT BTEX CONSTITUENTS ONLY.   | San Juan County, NM   |
|--|--|---|
| Custody Seals In Place Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temp Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Cooler Temperature on Receipt 34°F <input type="checkbox"/> |
| Trip Blank Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>             |  |   |

## PROJECT NARRATIVE

Project: CHAVEZ GC A #1  
Pace Project No.: 6038270

---

Method: EPA 8260  
Description: 8260 MSV UST, Water  
Client: BP-Blagg Engineering  
Date: April 15, 2008

### General Information:

3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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**QUALITY CONTROL DATA**

Project: CHAVEZ GCA #1  
Pace Project No.: 6038270

QC Batch: MSV/13958 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 6038270001, 6038270002, 6038270003

METHOD BLANK: 311255

Associated Lab Samples: 6038270001, 6038270002, 6038270003

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 99           | 81-118          |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 85-119          |            |
| Dibromofluoromethane (S)  | %     | 101          | 85-114          |            |
| Toluene-d8 (S)            | %     | 100          | 82-114          |            |

LABORATORY CONTROL SAMPLE: 311256

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 9.2        | 92        | 87-117       |            |
| Ethylbenzene              | ug/L  | 10          | 9.4        | 94        | 84-123       |            |
| Toluene                   | ug/L  | 10          | 9.6        | 96        | 81-124       |            |
| Xylene (Total)            | ug/L  | 30          | 27.3       | 91        | 83-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 105       | 81-118       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 98        | 85-119       |            |
| Dibromofluoromethane (S)  | %     |             |            | 98        | 85-114       |            |
| Toluene-d8 (S)            | %     |             |            | 104       | 82-114       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 311257 311258

| Parameter                 | Units | MS Spike   |        | MSD Spike |       | MS     |       | MSD    |        | % Rec Limits | RPD | RPD | Max Qual |
|---------------------------|-------|------------|--------|-----------|-------|--------|-------|--------|--------|--------------|-----|-----|----------|
|                           |       | 6038059018 | Result | Conc.     | Conc. | Result | % Rec | Result | % Rec  |              |     |     |          |
| Benzene                   | ug/L  | ND         | 10     | 10        | 7.7   | 8.5    | 73    | 81     | 30-162 | 10           | 22  |     |          |
| Ethylbenzene              | ug/L  | 8.2        | 10     | 10        | 15.7  | 16.5   | 75    | 83     | 37-154 | 5            | 18  |     |          |
| Toluene                   | ug/L  | ND         | 10     | 10        | 8.2   | 8.6    | 76    | 80     | 49-143 | 5            | 20  |     |          |
| Xylene (Total)            | ug/L  | 22.6       | 30     | 30        | 45.2  | 46.7   | 75    | 80     | 32-154 | 3            | 15  |     |          |
| 1,2-Dichloroethane-d4 (S) | %     |            |        |           |       |        | 101   | 102    | 81-118 |              |     |     |          |
| 4-Bromofluorobenzene (S)  | %     |            |        |           |       |        | 91    | 96     | 85-119 |              |     |     |          |
| Dibromofluoromethane (S)  | %     |            |        |           |       |        | 97    | 101    | 85-114 |              |     |     |          |
| Toluene-d8 (S)            | %     |            |        |           |       |        | 105   | 103    | 82-114 |              |     |     |          |
| Preservation pH           |       | 1.0        |        |           |       | 1.0    | 1.0   |        |        |              |     |     | 0        |

Date: 04/15/2008 05:50 PM

**REPORT OF LABORATORY ANALYSIS**

Page 8 of 10

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## QUALIFIERS

Project: CHAVEZ GC A#1  
Pace Project No.: 6038270

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

Date: 04/15/2008 05:50 PM

## REPORT OF LABORATORY ANALYSIS

Page 9 of 10

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHAVEZ GC A #1  
 Pace Project No.: 6038270

| Lab ID     | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|-----------|-------------------|------------------|
| 6038270001 | MW #5     | EPA 8260        | MSV/13958 |                   |                  |
| 6038270002 | MW #6     | EPA 8260        | MSV/13958 |                   |                  |
| 6038270003 | MW #7     | EPA 8260        | MSV/13958 |                   |                  |

Date: 04/15/2008 05:50 PM

## REPORT OF LABORATORY ANALYSIS

Page 10 of 10

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### SAMPLE ANALYTE COUNT

Project: CHAVEZ GC A #1  
Pace Project No.: 6038270

| Lab ID     | Sample ID | Method   | Analysts | Analytes Reported |
|------------|-----------|----------|----------|-------------------|
| 6038270001 | MW #5     | EPA 8260 | JKL      | 9                 |
| 6038270002 | MW #6     | EPA 8260 | JKL      | 9                 |
| 6038270003 | MW #7     | EPA 8260 | JKL      | 9                 |

### REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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### SAMPLE SUMMARY

Project: CHAVEZ GCA #1  
Pace Project No.: 6038270

| Lab ID     | Sample ID | Matrix | Date Collected | Date Received  |
|------------|-----------|--------|----------------|----------------|
| 6038270001 | MW #5     | Water  | 04/03/08 11:00 | 04/08/08 08:45 |
| 6038270002 | MW #6     | Water  | 04/03/08 11:30 | 04/08/08 08:45 |
| 6038270003 | MW #7     | Water  | 04/03/08 12:00 | 04/08/08 08:45 |

### REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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Client Name: BP UES Project # Ceo38270

Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_  
 Tracking #: 4994348715

Optional  
 Proj. Due Date: 4/18/08  
 Proj. Name:

Custody Seal on Cooler/Box Present:  Yes  no Seals intact:  Yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_Thermometer Used T-168  T-169 Type of Ice:  Wet Blue  None  Samples on ice, cooling process has begun

Cooler Temperature 36 Biological Tissue Is Frozen: Yes No  
 Temp should be above freezing to 6°C

Comments: \_\_\_\_\_

Date and Initials of person examining

contents: 4/18/08

Larson

VCA

|  |  |   |
|--|--|---|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.  |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.  |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.  |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.  |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.  |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |   |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.   |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11.   |
| Sample Labels match COC:<br>-Includes date/time/ID/Analysis Matrix:                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.   |
| All containers needing preservation have been checked.                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 13.   |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |   |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed <i>4/18/08</i> Lot # of added preservative |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14.   |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.   |
| Trip Blank Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 16. 3 fts sent w/ multiple projects                               |
| Trip Blank Custody Seals Present   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |   |
| Pace Trip Blank Lot # (if purchased): 32708-3  |  | <i>4/18/08</i>  |

## Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: 4/18/08 Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

**BLAGG ENGINEERING, INC.**  
**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

**CLIENT: BP AMERICA PROD. CO.**

**CHAIN-OF-CUSTODY #:** N/A

**CHAVEZ GC A #1**

**LABORATORY (S) USED:** PACE ANALYTICAL

**UNIT G, SEC. 3, T29N, R9W**

**Date :** June 10, 2008

**SAMPLER :** N J V

**Filename :** 06-10-08.WK4

**PROJECT MANAGER :** J C B

| WELL # | WELL ELEV.<br>(ft) | WATER ELEV.<br>(ft) | DEPTH TO WATER<br>(ft) | TOTAL DEPTH<br>(ft) | SAMPLING TIME | pH   | CONDUCT (umhos) | TEMP. (celcius) | VOLUME PURGED (gal.) |
|--------|--------------------|---------------------|------------------------|---------------------|---------------|------|-----------------|-----------------|----------------------|
| 1      | 105.41             | -                   | -                      | 19.50               | -             | -    | -               | -               | -                    |
| 2      | 102.98             | -                   | -                      | 18.00               | -             | -    | -               | -               | -                    |
| 3      | 102.28             | 93.33               | 8.95                   | 19.00               | -             | -    | -               | -               | -                    |
| 4      | 101.28             | 93.79               | 7.49                   | 16.00               | -             | -    | -               | -               | -                    |
| 5      | 101.48             | 95.84               | 5.64                   | 17.35               | 0940          | 7.40 | 2,000           | 17.3            | 5.75                 |
| 6      | 102.55             | 95.00               | 7.55                   | 17.50               | 1010          | 7.08 | 1,000           | 16.6            | 5.00                 |
| 7      | 101.66             | 93.97               | 7.69                   | 17.37               | 1055          | 7.26 | 3,500           | 21.5            | 4.75                 |

**INSTRUMENT CALIBRATIONS =**

4.01/7.00/10.00

2,800

**DATE & TIME =**

06/09/08

0700

**NOTES :** Volume of water purged from well prior to sampling:  $V = \pi r^2 h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Excellent recovery in MW #5, #6, #7, all murky brown in appearance, slight hydrocarbon odor detected physically in MW #7 only, collected sample for BTEX per US EPA Method 8260 from MW #5, #6, & #7 only. Collected duplicate sample from MW #7 and labeled MW #1X on chain of custody record (time - 0915).

Top of casing MW #1 ~ 2.90 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.50 ft., MW #4 ~ 2.60 ft., MW #5 ~ 3.40 ft., MW #6 ~ 3.55 ft., MW #7 ~ 2.80 ft. above grade.

|            |       |         |       |
|------------|-------|---------|-------|
| on-site    | 9:12  | temp    | 68    |
| off-site   | 11:20 | temp    | 83    |
| sky cond.  | sunny |         |       |
| wind speed | 0-10  | direct. | north |

## ANALYTICAL RESULTS

Project: CHAVEZ GC A 1

Pace Project No.: 6041661

| Sample: MW #5             | Lab ID: 6041661001          | Collected: 06/10/08 07:40 | Received: 06/11/08 09:10 | Matrix: Water |          |                |            |      |
|---------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                | Results                     | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| 8260 MSV UST, Water       | Analytical Method: EPA 8260 |                           |                          |               |          |                |            |      |
| Benzene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 05:09 | 71-43-2    |      |
| Ethylbenzene              | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 05:09 | 100-41-4   |      |
| Toluene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 05:09 | 108-88-3   |      |
| Xylene (Total)            | ND ug/L                     |                           | 3.0                      | 1             |          | 06/13/08 05:09 | 1330-20-7  |      |
| Dibromofluoromethane (S)  | 111 %                       |                           | 85-114                   | 1             |          | 06/13/08 05:09 | 1868-53-7  |      |
| Toluene-d8 (S)            | 97 %                        |                           | 82-114                   | 1             |          | 06/13/08 05:09 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)  | 101 %                       |                           | 85-119                   | 1             |          | 06/13/08 05:09 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S) | 121 %                       |                           | 81-118                   | 1             |          | 06/13/08 05:09 | 17060-07-0 | S3   |
| Preservation pH           | 1.0                         |                           |                          | 1.0           | 1        | 06/13/08 05:09 |            |      |

Date: 06/23/2008 03:06 PM

## REPORT OF LABORATORY ANALYSIS

Page 6 of 12

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## ANALYTICAL RESULTS

Project: CHAVEZ GC A 1

Pace Project No.: 6041661

| Sample: MW #6              | Lab ID: 6041661002 | Collected: 06/10/08 10:10 | Received: 06/11/08 09:10 | Matrix: Water |          |                |            |      |
|----------------------------|--------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                 | Results            | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> |                    |                           |                          |               |          |                |            |      |
| Benzene                    | ND ug/L            |                           | 1.0                      | 1             |          | 06/13/08 06:02 | 71-43-2    |      |
| Ethylbenzene               | ND ug/L            |                           | 1.0                      | 1             |          | 06/13/08 06:02 | 100-41-4   |      |
| Toluene                    | ND ug/L            |                           | 1.0                      | 1             |          | 06/13/08 06:02 | 108-88-3   |      |
| Xylene (Total)             | ND ug/L            |                           | 3.0                      | 1             |          | 06/13/08 06:02 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 99 %               |                           | 85-114                   | 1             |          | 06/13/08 06:02 | 1868-53-7  |      |
| Toluene-d8 (S)             | 103 %              |                           | 82-114                   | 1             |          | 06/13/08 06:02 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 98 %               |                           | 85-119                   | 1             |          | 06/13/08 06:02 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 99 %               |                           | 81-118                   | 1             |          | 06/13/08 06:02 | 17060-07-0 |      |
| Preservation pH            | 1.0                |                           |                          | 1.0           | 1        | 06/13/08 06:02 |            |      |

Date: 06/23/2008 03:06 PM

## REPORT OF LABORATORY ANALYSIS

Page 7 of 12

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## ANALYTICAL RESULTS

Project: CHAVEZ GC A 1

Pace Project No.: 6041661

| Sample: MW #7              | Lab ID: 6041661003          | Collected: 06/10/08 10:55 | Received: 06/11/08 09:10 | Matrix: Water |          |                |            |      |
|----------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                 | Results                     | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| <b>8260 MSV UST, Water</b> | Analytical Method: EPA 8260 |                           |                          |               |          |                |            |      |
| Benzene                    | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 06:19 | 71-43-2    |      |
| Ethylbenzene               | 1.9 ug/L                    |                           | 1.0                      | 1             |          | 06/13/08 06:19 | 100-41-4   |      |
| Toluene                    | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 06:19 | 108-88-3   |      |
| Xylene (Total)             | 10.6 ug/L                   |                           | 3.0                      | 1             |          | 06/13/08 06:19 | 1330-20-7  |      |
| Dibromofluoromethane (S)   | 102 %                       |                           | 85-114                   | 1             |          | 06/13/08 06:19 | 1868-53-7  |      |
| Toluene-d8 (S)             | 109 %                       |                           | 82-114                   | 1             |          | 06/13/08 06:19 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)   | 110 %                       |                           | 85-119                   | 1             |          | 06/13/08 06:19 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S)  | 104 %                       |                           | 81-118                   | 1             |          | 06/13/08 06:19 | 17060-07-0 |      |
| Preservation pH            | 1.0                         |                           |                          | 1.0           | 1        | 06/13/08 06:19 |            |      |

Date: 06/23/2008 03:06 PM

## REPORT OF LABORATORY ANALYSIS

Page 8 of 12

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## ANALYTICAL RESULTS

Project: CHAVEZ GCA 1  
Pace Project No.: 6041661

| Sample: MW #1X            | Lab ID: 6041661004          | Collected: 06/10/08 09:15 | Received: 06/11/08 09:10 | Matrix: Water |          |                |            |      |
|---------------------------|-----------------------------|---------------------------|--------------------------|---------------|----------|----------------|------------|------|
| Parameters                | Results                     | Units                     | Report Limit             | DF            | Prepared | Analyzed       | CAS No.    | Qual |
| 8260 MSV UST, Water       | Analytical Method: EPA 8260 |                           |                          |               |          |                |            |      |
| Benzene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 06:36 | 71-43-2    |      |
| Ethylbenzene              | 2.1 ug/L                    |                           | 1.0                      | 1             |          | 06/13/08 06:36 | 100-41-4   |      |
| Toluene                   | ND ug/L                     |                           | 1.0                      | 1             |          | 06/13/08 06:36 | 108-88-3   |      |
| Xylene (Total)            | 10.9 ug/L                   |                           | 3.0                      | 1             |          | 06/13/08 06:36 | 1330-20-7  |      |
| Dibromofluoromethane (S)  | 102 %                       |                           | 85-114                   | 1             |          | 06/13/08 06:36 | 1868-53-7  |      |
| Toluene-d8 (S)            | 110 %                       |                           | 82-114                   | 1             |          | 06/13/08 06:36 | 2037-26-5  |      |
| 4-Bromofluorobenzene (S)  | 109 %                       |                           | 85-119                   | 1             |          | 06/13/08 06:36 | 460-00-4   |      |
| 1,2-Dichloroethane-d4 (S) | 104 %                       |                           | 81-118                   | 1             |          | 06/13/08 06:36 | 17060-07-0 |      |
| Preservation pH           | 1.0                         |                           |                          | 1.0           | 1        | 06/13/08 06:36 |            |      |

Date: 06/23/2008 03:06 PM

## REPORT OF LABORATORY ANALYSIS

Page 9 of 12

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## Chain of Custody Record

Project Name: CHAVEZ GC A 1

BP BU/AR Region/Envos Segment: STOC SOUTH  
NMOCN

State or Lead Regulatory Agency:

Requested Due Date (mm/dd/yy): 6/23/08

Page 1 of 1

|                        |       |            |       |
|------------------------|-------|------------|-------|
| On-site Time:          | 8:55  | Temp:      | 65°F  |
| Off-site Time:         | 11:20 | Temp:      | 83°F  |
| Sky Conditions:        | SUNNY |            |       |
| Meteorological Events: |       |            |       |
| Wind Speed:            | 0-10  | Direction: | NORTH |

|  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
|--|--------------------|------|------|-------------------------------|-------------------------------|-------------------|--------------|---|--------------------|---------------------------|----------|----------------------|------------------------------------|------|--|-----------------------------------|--|
| Lab Name: Pace Analytical Services, Inc.                         |                    |      |      | BP/AR Facility No.:           |                               |                   |              | Consultant/Contractor: Blagg/URS                                    |                    |                           |          |                      |                                    |      |  |                                   |  |
| Address: 9609 Loiret Blvd<br>Lenexa, KS 66219                    |                    |      |      | BP/AR Facility Address:       |                               |                   |              | Address: 110 N. Forth St.<br>Bloomfield, NM 87413                   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Lab PM: MJ Walls   |                    |      |      | Site Lat/Long:                |                               |                   |              | Consultant/Contractor Project No.:                                  |                    |                           |          |                      |                                    |      |  |                                   |  |
| Tele/Fax: 913-563-1401   |                    |      |      | California Global ID No.:     |                               |                   |              | Consultant/Contractor PM: Nelson Velez                              |                    |                           |          |                      |                                    |      |  |                                   |  |
| BP/AR EMB: Mike Whelan   |                    |      |      | Envos Project No.: 0019L-0001 |                               |                   |              | Tele: (505) 632-1199 Fax: (505) 632-3903                            |                    |                           |          |                      |                                    |      |  |                                   |  |
| Address: 501 Westlake Park Blvd.<br>Rm28, 144B Houston, TX 77079 |                    |      |      | Provision or OOC (circle one) |                               |                   |              | Report Type & QC Level: STD   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Tele: (281) 366-7485 Fax: (281) 366-7094                         |                    |      |      | Phase/WBS:                    |                               |                   |              | E-Mail EDD To: blagg-njve@yahoo.com                                 |                    |                           |          |                      |                                    |      |  |                                   |  |
| Lab Bottle Order No: 17703                                       |                    |      |      | Sub Phase/Task:               |                               |                   |              | Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one) |                    |                           |          |                      |                                    |      |  |                                   |  |
|  |                    |      |      | Cost Element:                 |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Item No.   | Sample Description | Time | Date | Matrix                        | Laboratory No.                | No. of Containers | Preservative |   | Requested Analysis |                           |          |                      | Sample Point Lat/Long and Comments |      |  |                                   |  |
|  |                    |      |      |                               |                               |                   | Unpreserved  | H <sub>2</sub> SO <sub>4</sub>                                      | HNO <sub>3</sub>   | HCl                       | Methanol | BTEX (8260)          |                                    |      |  |                                   |  |
| 1  | MW #5              | 0940 |      | ✓                             | 001                           | 3                 |              | ✓   |                    | ✓                         |          |                      | 3(DG9H)                            |      |  |                                   |  |
| 2  | MW #6              | 1010 |      | ✓                             | 002                           | 3                 |              | ✓   |                    | ✓                         |          |                      |                                    |      |  |                                   |  |
| 3  | MW #7              | 1055 |      | ✓                             | 003                           | 3                 |              | ✓   |                    | ✓                         |          |                      |                                    |      |  |                                   |  |
| 4  | MW #1X             | 0915 |      | ✓                             | 004                           | 3                 |              | ✓   |                    | ✓                         |          |                      |                                    |      |  |                                   |  |
| 5  |                    |      |      |                               | 005                           |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| 6  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| 7  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| 8  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| 9  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| 10   |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Sampler's Name: NELSON VELEZ                                     |                    |      |      |                               | Relinquished By / Affiliation |                   |              | Date  | Time               | Accepted By / Affiliation |          |                      | Date                               | Time |  |                                   |  |
| Sampler's Company: BLAGG ENGR. INC.                              |                    |      |      |                               | Nelson VJ                     |                   |              | 6/10/08   | 1540               | Signature                 |          |                      | 6/11                               | 910  |  |                                   |  |
| Shipment Date: JUNE 10 2008                                      |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Shipment Method: F.O. EX.  |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Shipment Tracking No: 4994348682                                 |                    |      |      |                               |                               |                   |              |   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Special Instructions: REPORT BTEX CONSTITUENTS ONLY.             |                    |      |      |                               |                               |                   |              | SAN JUAN COUNTY, NM   |                    |                           |          |                      |                                    |      |  |                                   |  |
| Custody Seals In Place: Yes / No                                 |                    |      |      | Temp Blank: Yes / No          |                               |                   |              | Cooler Temp on Receipt: 52°F/C                                      |                    |                           |          | Trip Blank: Yes / No |                                    |      |  | MS/MSD Sample Submitted: Yes / No |  |

## PROJECT NARRATIVE

Project: CHAVEZ GC A 1  
Pace Project No.: 6041661

Method: EPA 8260  
Description: 8260 MSV UST, Water  
Client: BP-Blagg Engineering  
Date: June 23, 2008

### General Information:

4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: MSV/15149

- S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- MW #5 (Lab ID: 6041661001)
  - 1,2-Dichloroethane-d4 (S)

### Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/15149

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 6041661001

- R1: RPD value was outside control limits.
- MSD (Lab ID: 339183)
  - Toluene

### Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

Page 4 of 12

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## PROJECT NARRATIVE

Project: CHAVEZ GC A 1  
Pace Project No.: 6041661

Method: EPA 8260  
Description: 8260 MSV UST, Water  
Client: BP-Blagg Engineering  
Date: June 23, 2008

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

Page 5 of 12

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**QUALITY CONTROL DATA**

Project: CHAVEZ GC A 1  
Pace Project No.: 6041661

QC Batch: MSV/15149 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER  
Associated Lab Samples: 6041661001, 6041661002, 6041661003, 6041661004

METHOD BLANK: 339180

Associated Lab Samples: 6041661001, 6041661002, 6041661003, 6041661004

| Parameter                 | Units | Blank Result | Reporting Limit | Qualifiers |
|---------------------------|-------|--------------|-----------------|------------|
| Benzene                   | ug/L  | ND           | 1.0             |            |
| Ethylbenzene              | ug/L  | ND           | 1.0             |            |
| Toluene                   | ug/L  | ND           | 1.0             |            |
| Xylene (Total)            | ug/L  | ND           | 3.0             |            |
| 1,2-Dichloroethane-d4 (S) | %     | 96           | 81-118          |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 85-119          |            |
| Dibromofluoromethane (S)  | %     | 100          | 85-114          |            |
| Toluene-d8 (S)            | %     | 104          | 82-114          |            |

LABORATORY CONTROL SAMPLE: 339181

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene                   | ug/L  | 10          | 8.8        | 88        | 87-117       |            |
| Ethylbenzene              | ug/L  | 10          | 9.6        | 96        | 84-123       |            |
| Toluene                   | ug/L  | 10          | 9.2        | 92        | 81-124       |            |
| Xylene (Total)            | ug/L  | 30          | 28.2       | 94        | 83-125       |            |
| 1,2-Dichloroethane-d4 (S) | %     |             |            | 96        | 81-118       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 100       | 85-119       |            |
| Dibromofluoromethane (S)  | %     |             |            | 98        | 85-114       |            |
| Toluene-d8 (S)            | %     |             |            | 103       | 82-114       |            |

MATRIX SPIKE &amp; MATRIX SPIKE DUPLICATE: 339182 339183

| Parameter                 | Units | MS         |             | MSD   |       | MS % Rec | MSD % Rec | % Rec Limits | RPD    | RPD | Max Qual |
|---------------------------|-------|------------|-------------|-------|-------|----------|-----------|--------------|--------|-----|----------|
|                           |       | 6041661001 | Spike Conc. | Spike | Conc. |          |           |              |        |     |          |
| Benzene                   | ug/L  | ND         | 10          | 10    | 9.5   | 7.9      | 95        | 79           | 30-162 | 19  | 22       |
| Ethylbenzene              | ug/L  | ND         | 10          | 10    | 9.3   | 7.9      | 93        | 79           | 37-154 | 16  | 18       |
| Toluene                   | ug/L  | ND         | 10          | 10    | 9.5   | 7.7      | 95        | 77           | 49-143 | 21  | 20 R1    |
| Xylene (Total)            | ug/L  | ND         | 30          | 30    | 28.7  | 24.7     | 96        | 82           | 32-154 | 15  | 15       |
| 1,2-Dichloroethane-d4 (S) | %     |            |             |       |       |          | 99        | 101          | 81-118 |     |          |
| 4-Bromofluorobenzene (S)  | %     |            |             |       |       |          | 96        | 101          | 85-119 |     |          |
| Dibromofluoromethane (S)  | %     |            |             |       |       |          | 103       | 100          | 85-114 |     |          |
| Toluene-d8 (S)            | %     |            |             |       |       |          | 103       | 100          | 82-114 |     |          |
| Preservation pH           |       | 1.0        |             |       |       | 1.0      | 1.0       |              |        | 0   |          |

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**REPORT OF LABORATORY ANALYSIS**

Page 10 of 12

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### QUALITY CONTROL DATA

Project: CHAVEZ GC A 1

Pace Project No.: 6041661

QC Batch: MSV/15149

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV UST-WATER

Associated Lab Samples: 6041661001, 6041661002, 6041661003, 6041661004

METHOD BLANK: 339180

Associated Lab Samples: 6041661001, 6041661002, 6041661003, 6041661004

| Parameter      | Units | Blank Result | Reporting Limit | Qualifiers |
|----------------|-------|--------------|-----------------|------------|
| Benzene        | ug/L  | ND           | 1.0             |            |
| Ethylbenzene   | ug/L  | ND           | 1.0             |            |
| Toluene        | ug/L  | ND           | 1.0             |            |
| Xylene (Total) | ug/L  | ND           | 3.0             |            |
|                |       | ~            | ~               | ~          |

## QUALIFIERS

Project: CHAVEZ GC A 1

Pace Project No.: 6041661

---

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

R1      RPD value was outside control limits.

S3      Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples.  
Results unaffected by high bias.



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHAVEZ GC A 1  
 Pace Project No.: 6041661

| Lab ID     | Sample ID | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|------------|-----------|-----------------|-----------|-------------------|------------------|
| 6041661001 | MW #5     | EPA 8260        | MSV/15149 |                   |                  |
| 6041661002 | MW #6     | EPA 8260        | MSV/15149 |                   |                  |
| 6041661003 | MW #7     | EPA 8260        | MSV/15149 |                   |                  |
| 6041661004 | MW #1X    | EPA 8260        | MSV/15149 |                   |                  |

Date: 06/23/2008 03:06 PM

## REPORT OF LABORATORY ANALYSIS

Page 12 of 12

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### SAMPLE ANALYTE COUNT

Project: CHAVEZ GC A 1  
 Pace Project No.: 6041661

| Lab ID     | Sample ID | Method   | Analysts | Analytes Reported |
|------------|-----------|----------|----------|-------------------|
| 6041661001 | MW #5     | EPA 8260 | GEZ      | 9                 |
| 6041661002 | MW #6     | EPA 8260 | GEZ      | 9                 |
| 6041661003 | MW #7     | EPA 8260 | GEZ      | 9                 |
| 6041661004 | MW #1X    | EPA 8260 | GEZ      | 9                 |

### REPORT OF LABORATORY ANALYSIS

Page 3 of 12

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### SAMPLE SUMMARY

Project: CHAVEZ GC A 1  
Pace Project No.: 6041661

| Lab ID     | Sample ID | Matrix | Date Collected | Date Received  |
|------------|-----------|--------|----------------|----------------|
| 6041661001 | MW #5     | Water  | 06/10/08 07:40 | 06/11/08 09:10 |
| 6041661002 | MW #6     | Water  | 06/10/08 10:10 | 06/11/08 09:10 |
| 6041661003 | MW #7     | Water  | 06/10/08 10:55 | 06/11/08 09:10 |
| 6041661004 | MW #1X    | Water  | 06/10/08 09:15 | 06/11/08 09:10 |

### REPORT OF LABORATORY ANALYSIS

Page 2 of 12

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## Sample Condition Upon Receipt

Client Name: Be BlazcProject # Co 4164

## Optional

Proj. Due Date: 6/23  
Proj. Name:(have 2 GC A1)Courier:  FedEx  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_Tracking #: 8643 6005 2346Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  noPacking Material:  Bubble Wrap  Bubble Bags  None  Other \_\_\_\_\_Thermometer Used T-169 / T-179Type of Ice: Wet Blue None Samples on ice, cooling process has begunCooler Temperature 5.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining  
contents: BSW 6/11  
S: 10:10 E: 10:15

Temp should be above freezing to 6°C

Comments:

|  |  |                             |
|--|--|-----------------------------|
| Chain of Custody Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                          |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                          |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                          |
| Sampler Name & Signature on COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.                          |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.                          |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.                          |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.                          |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.                          |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.                          |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                             |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.                         |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 11.                         |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                         |
| -Includes date/time/ID/Analysis Matrix:  | <u>wrt</u>   |                             |
| All containers needing preservation have been checked.                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.                         |
| All containers needing preservation are found to be in compliance with EPA recommendation. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                             |
| exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water)                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed      |
|  |  | Lot # of added preservative |
| Samples checked for dechlorination:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                         |
| Headspace in VOA Vials (>6mm):   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.                         |
| Trip Blank Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 16.                         |
| Trip Blank Custody Seals Present   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                             |
| Pace Trip Blank Lot # (if purchased): <u>051208</u>  |  |                             |

## Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution:  
\_\_\_\_\_  
\_\_\_\_\_Project Manager Review: Mel 6/12/08

Date: \_\_\_\_\_

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)