

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

**Release Notification and Corrective Action**

*Amended*

**OPERATOR**  Initial Report  Final Report

|   |                                 |
|---|---------------------------------|
| Name of Company: BP                             | Contact: Jeff Peace             |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone No.: 505-326-9479     |
| Facility Name: Valencia Gas Com B 1M            | Facility Type: Natural gas well |

|                        |                        |                    |
|------------------------|------------------------|--------------------|
| Surface Owner: Private | Mineral Owner: Private | API No. 3004524952 |
|------------------------|------------------------|--------------------|

**LOCATION OF RELEASE**

|                  |               |                 |             |                        |                           |                        |                        |                  |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|------------------------|------------------------|------------------|
| Unit Letter<br>K | Section<br>18 | Township<br>29N | Range<br>9W | Feet from the<br>1,670 | North/South Line<br>South | Feet from the<br>1,560 | East/West Line<br>West | County: San Juan |
|------------------|---------------|-----------------|-------------|------------------------|---------------------------|------------------------|------------------------|------------------|

Latitude 36.72322 Longitude 107.82159

**NATURE OF RELEASE**

|  |  |  |
|--|--|--|
| Type of Release: condensate/oil  | Volume of Release: unknown               | Volume Recovered: none                             |
| Source of Release: unknown   | Date and Hour of Occurrence: unknown     | Date and Hour of Discovery: May 21, 2013; 12:08 PM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Brandon Powell       |  |
| By Whom? Courtney Cochran  | Date and Hour: May 22, 2013; 3:43 PM     |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse |  |

**OIL CONS. DIV DIST. 3**

**JUN 24 2014**

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* During operations to remove below grade tank (BGT) contaminated soil was discovered near the BGT. Initial investigation with test holes indicated limited impacts that were not from the BGT, but likely residual impacts from an earlier excavation of impacted soil. Excavation of impacted soil was done.

Describe Area Affected and Cleanup Action Taken.\* Borehole drilling was done to collect soil samples and determine vertical and lateral extent of the contamination. Groundwater was found 3' to 4' below the surface. Excavation was done to remove impacted soil. Approximately 1,572 cubic yards of impacted soil was taken to the IEL landfarm for treatment. Excavation continued until remaining soil samples resulted in less than 100 ppm TPH. The excavated area was backfilled with clean soil. A monitor well was installed in the center of the excavated area and water sampling indicated no impacts to ground water. Sulfate concentrations in the new monitor well were above the WQCC standard of 600 mg/l, but the attached water quality data show sulfate concentrations in the upgradient monitor wells are also above the standard, which indicates background sulfate concentrations.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

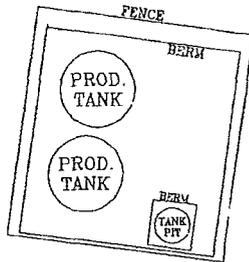
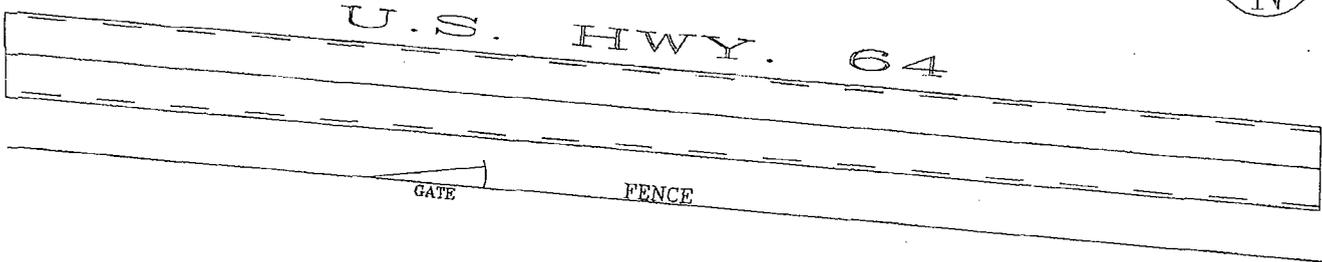
|                                      |  |                                   |
|--------------------------------------|--|-----------------------------------|
| Signature: <i>Jeff Peace</i>         | <b>OIL CONSERVATION DIVISION</b>                           |                                   |
| Printed Name: Jeff Peace             | Approved by Environmental Specialist: <i>Jeffrey Kelly</i> |                                   |
| Title: Area Environmental Advisor    | Approval Date: <i>11/14/2014</i>                           | Expiration Date:                  |
| E-mail Address: peace.jeffrey@bp.com | Conditions of Approval:                                    | Attached <input type="checkbox"/> |
| Date: June 23, 2014                  | Phone: 505-326-9479  |                                   |

\* Attach Additional Sheets If Necessary

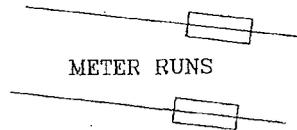
*nJK 31839704*

*44*

# FIGURE 1



WELL HEAD  
⊕



● MW #1

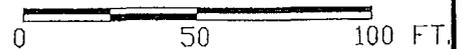
● MW #2

● MW #4

● MW #3

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

1 INCH = 50 FT.



|   |  |  |                     |
|---|--|--|---------------------|
| AMOCO PRODUCTION COMPANY<br>VALENCIA GC B # 1M<br>NE/4 SW/4 SEC. 18, T29N, R9W<br>SAN JUAN COUNTY, NEW MEXICO | BLAGG ENGINEERING, INC.<br>CONSULTING PETROLEUM / RECLAMATION SERVICES<br>P.O. BOX 87<br>BLOOMFIELD, NEW MEXICO 87413<br>PHONE: (505) 832-1199 | PROJECT: 1/4 by SAMP.<br>DRAWN BY: NJV<br>FILENAME: 01-29-SM<br>DRAFTED: 2/02/98 NJV | SITE<br>MAP<br>1/98 |
|---|--|--|---------------------|

# GENERAL WATER QUALITY

BP AMOCO

**VALENCIA GC B # 1M**

SAMPLE DATES : 2 / 25 / 98 & 12 / 16 / 99

| PARAMETERS                     | MW # 1  | MW # 2 | MW # 3  | MW # 4  | Units      |
|--------------------------------|---------|--------|---------|---------|------------|
| LAB pH                         | 7.43    | 7.59   | 7.37    | 7.55    | s. u.      |
| LAB CONDUCTIVITY @ 25 C        | 3,695   | 3,910  | 6,000   | 5,900   | umhos / cm |
| TOTAL DISSOLVED SOLIDS @ 180 C | 1,850   | 1,950  | 2,985   | 2,900   | mg / L     |
| TOTAL DISSOLVED SOLIDS (Calc)  | 1,846   | 1,945  | 2,966   | 2,873   | mg / L     |
| SODIUM ABSORPTION RATIO        | 9.8     | 3.9    | 10.6    | 13.4    | ratio      |
| TOTAL ALKALINITY AS CaCO3      | 354     | 396    | 522     | 500     | mg / L     |
| TOTAL HARDNESS AS CaCO3        | 402     | 858    | 752     | 556     | mg / L     |
| BICARBONATE as HCO3            | 354     | 396    | 522     | 500     | mg / L     |
| CARBONATE AS CO3               | < 1     | < 1    | < 1     | < 1     | mg / L     |
| HYDROXIDE AS OH                | < 1     | < 1    | < 1     | < 1     | mg / L     |
| NITRATE NITROGEN               | 0.1     | 31.6   | 0.2     | 0.3     | mg / L     |
| NITRITE NITROGEN               | < 0.001 | 0.203  | < 0.001 | < 0.001 | mg / L     |
| CHLORIDE                       | 38.0    | 312    | 108     | 112     | mg / L     |
| FLUORIDE                       | 1.00    | 1.07   | 1.80    | 1.83    | mg / L     |
| PHOSPHATE                      | 2.1     | 5.8    | 4.1     | 1.0     | mg / L     |
| SULFATE                        | 992     | 706    | 1,572   | 1,510   | mg / L     |
| IRON                           | NA      | NA     | NA      | NA      | mg / L     |
| CALCIUM                        | 117     | 239    | 243     | 184     | mg / L     |
| MAGNESIUM                      | 26.8    | 63.5   | 35.2    | 23.4    | mg / L     |
| POTASSIUM                      | 4.3     | 80.4   | 14.5    | 11.5    | mg / L     |
| SODIUM                         | 450     | 265    | 670     | 725     | mg / L     |
| CATION / ANION DIFFERENCE      | 0.29    | 0.03   | 0.05    | 0.03    | %          |

SAMPLING CONDUCTED ON DEC. 16, 1999

|          |     |     |     |      |        |
|----------|-----|-----|-----|------|--------|
| CHLORIDE | 4.5 | 7.6 | 7.2 | 11.2 | mg / L |
|----------|-----|-----|-----|------|--------|

Valencia GC B 1M  
(K) Sec 18 – T29N – R9W  
San Juan County, New Mexico

OIL CONS. DIV DIST. 3

NOV 13 2014

Summary Record of Impact Remediation

May 13, 2013 Soil impacts encountered during closure of 95 barrel BGT. Impacts were not apparently directly associated with BGT, but residual from a December, 1994 remediation. This prior remediation included removal of approximately 495 cubic yards of material, installation of groundwater monitor wells, sampling and reporting to NMOCD Santa Fe. Groundwater (ranging between 2' – 4' below grade, depending on season) tested below standards in all monitor wells and a closure request was submitted to NMOCD Santa Fe with correspondence dated February 9, 2006.

Delineation of soil impacts on May 13, 2013 determined that the areal extent was limited to on location only (investigation and lab reports attached) and were apparently residual from prior release remediated in 1994. No evidence of current or on-going release.

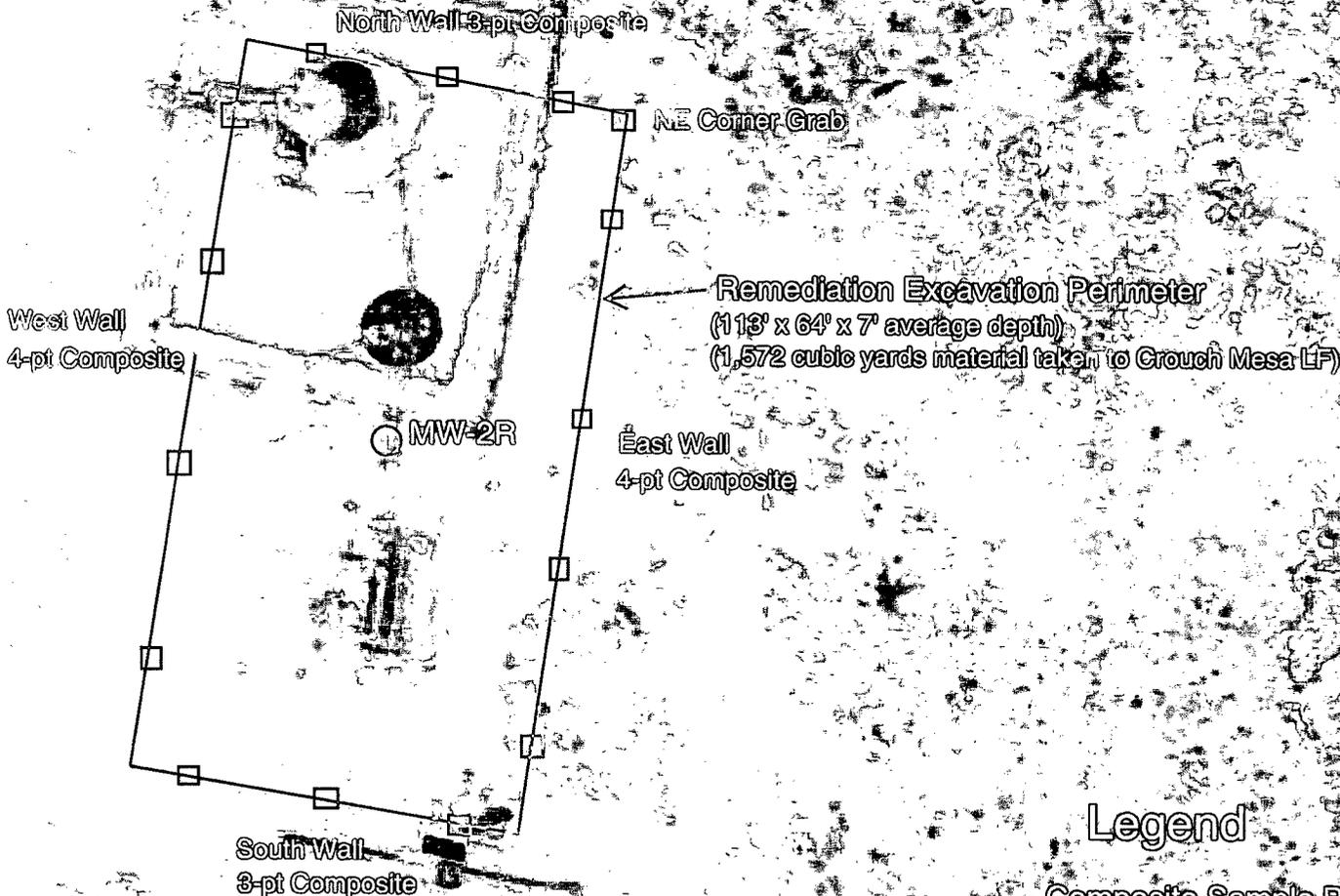
January 17 – January 30, 2014 Excavation of all soil impacts to below the water table completed. Excavation size approximately 113' x 64' x 7' below grade. 1,572 cubic yards of material hauled to BP Crouch Mesa Landfarm. Perimeter composite sampling of sidewalls completed, all samples tested below 100 ppm TPH, all BTEX and Chloride tested below closure standards (lab reports attached)

April 14, 2014 Monitor well MW-2A installed in center of excavation area. Well set at approximately 10 feet below grade with gravel pack around screened interval.

April 22, 2014 Monitor well MW-2A sampled. BTEX tested non-detect (lab reports attached).

# Valencia GC B 1M

Valencia B 1M Wellhead



## Legend

- Composite Sample Point
- Monitor Well



100ft



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

February 05, 2014

Jeff Blagg  
Blagg Engineering  
P. O. Box 87  
Bloomfield, NM 87413  
TEL: (505) 320-1183  
FAX (505) 632-3903

## Excavation Perimeter Closure Sampling Report

RE: Valencia GC B 1M

OrderNo.: 1401C25

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/31/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

Client: Blagg Engineering, Inc.

BP America

Mailing Address:

P.O. Box 87

Bloomfield, NM 87413

Phone #:

(505)320-1183

email or Fax#:

QA/QC Package:

Standard

Level 4 (Full Validation)

Other \_\_\_\_\_

EDD (Type) \_\_\_\_\_

Standard  Rush

Project Name

Valencia GC B 1M

Project #:

Project Manager:

Jeff Blagg

Sampler: Jeff Blagg

On Ice:  Yes  No

Sample Temperature: 6.5

# ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

| Date       | Time  | Matrix | Sample Request ID    | Container Type and # | Preservative Type | HEAL No.        | BTEX (8021) | TPH 8015B (GRO / DRO) | Chloride | Air Bubbles (Y or N) |
|------------|-------|--------|----------------------|----------------------|-------------------|-----------------|-------------|-----------------------|----------|----------------------|
| 01/30/2014 | 14:02 | Soil   | NE Corner            | 4oz x 1              | cool              | 1401025<br>-001 | x           | x                     | x        |                      |
| 01/30/2014 | 14:06 | Soil   | East Wall 4-pt Comp  | 4oz x 1              | cool              | -002            | x           | x                     | x        |                      |
| 01/30/2014 | 14:14 | Soil   | South Wall 4-pt Comp | 4oz x 1              | cool              | -003            | x           | x                     | x        |                      |
| 01/30/2014 | 14:20 | Soil   | West Wall 4-pt Comp  | 4oz x 1              | cool              | -004            | x           | x                     | x        |                      |
| 01/30/2014 | 14:26 | Soil   | North Wall 4-pt Comp | 4oz x 1              | cool              | -005            | x           | x                     | x        |                      |

Date:

v

Relinquished by:

Received by:

Date Time

Remarks: Bill Blagg Engineering

1/31/14 0610

Jeff Blagg

John Gallaga

01/31/14 10:15

Date:

Time:

Relinquished by:

Received by:

Date Time

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering **Client Sample ID:** NE Corner  
**Project:** Valencia GC B 1M **Collection Date:** 1/30/2014 2:02:00 PM  
**Lab ID:** 1401C25-001 **Matrix:** SOIL **Received Date:** 1/31/2014 10:15:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 1/31/2014 8:09:11 PM | 11505               |
| Surr: DNOP                                     | 109    | 66-131   |      | %REC  | 1  | 1/31/2014 8:09:11 PM | 11505               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Gasoline Range Organics (GRO)                  | 7.4    | 4.7      |      | mg/Kg | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| Surr: BFB                                      | 132    | 74.5-129 | S    | %REC  | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| Xylenes, Total                                 | 0.20   | 0.095    |      | mg/Kg | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| Surr: 4-Bromofluorobenzene                     | 96.7   | 80-120   |      | %REC  | 1  | 2/1/2014 6:34:41 PM  | 11514               |
| <b>EPA METHOD 300.0: ANIONS</b>                |        |          |      |       |    |                      | Analyst: <b>JRR</b> |
| Chloride                                       | ND     | 30       |      | mg/Kg | 20 | 2/3/2014 11:46:32 AM | 11534               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |   |   |    |  |
|--------------------|---|---|----|--|
| <b>Qualifiers:</b> | * | Value exceeds Maximum Contaminant Level.        | B  | Analyte detected in the associated Method Blank    |
|                    | E | Value above quantitation range                  | H  | Holding times for preparation or analysis exceeded |
|                    | J | Analyte detected below quantitation limits      | ND | Not Detected at the Reporting Limit                |
|                    | O | RSD is greater than RSDlimit                    | P  | Sample pH greater than 2 for VOA and TOC only.     |
|                    | R | RPD outside accepted recovery limits            | RL | Reporting Detection Limit                          |
|                    | S | Spike Recovery outside accepted recovery limits |    |  |

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering **Client Sample ID:** East Wall 4-pt Comp  
**Project:** Valencia GC B 1M **Collection Date:** 1/30/2014 2:06:00 PM  
**Lab ID:** 1401C25-002 **Matrix:** SOIL **Received Date:** 1/31/2014 10:15:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 1/31/2014 8:39:18 PM | 11505               |
| Surr: DNOP                                     | 104    | 66-131   |      | %REC  | 1  | 1/31/2014 8:39:18 PM | 11505               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Gasoline Range Organics (GRO)                  | 9.5    | 4.7      |      | mg/Kg | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| Surr: BFB                                      | 133    | 74.5-129 | S    | %REC  | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| Xylenes, Total                                 | 0.10   | 0.093    |      | mg/Kg | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| Surr: 4-Bromofluorobenzene                     | 95.9   | 80-120   |      | %REC  | 1  | 2/1/2014 8:00:17 PM  | 11514               |
| <b>EPA METHOD 300.0: ANIONS</b>                |        |          |      |       |    |                      | Analyst: <b>JRR</b> |
| Chloride                                       | ND     | 30       |      | mg/Kg | 20 | 2/3/2014 12:23:47 PM | 11534               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

| Qualifiers: |   |  |
|-------------|---|--|
| *           | Value exceeds Maximum Contaminant Level.        | B Analyte detected in the associated Method Blank    |
| E           | Value above quantitation range                  | H Holding times for preparation or analysis exceeded |
| J           | Analyte detected below quantitation limits      | ND Not Detected at the Reporting Limit               |
| O           | RSD is greater than RSDlimit                    | P Sample pH greater than 2 for VOA and TOC only.     |
| R           | RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
| S           | Spike Recovery outside accepted recovery limits |  |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Wall 3-pt Comp

Project: Valencia GC B 1M

Collection Date: 1/30/2014 2:14:00 PM

Lab ID: 1401C25-003

Matrix: SOIL

Received Date: 1/31/2014 10:15:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 1/31/2014 9:09:48 PM | 11505               |
| Surr: DNOP                                     | 107    | 66-131   |      | %REC  | 1  | 1/31/2014 9:09:48 PM | 11505               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Gasoline Range Organics (GRO)                  | ND     | 5.0      |      | mg/Kg | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| Surr: BFB                                      | 88.2   | 74.5-129 |      | %REC  | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Benzene  | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| Toluene  | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| Ethylbenzene                                   | ND     | 0.050    |      | mg/Kg | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| Xylenes, Total                                 | ND     | 0.099    |      | mg/Kg | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| Surr: 4-Bromofluorobenzene                     | 93.2   | 80-120   |      | %REC  | 1  | 2/1/2014 8:28:56 PM  | 11514               |
| <b>EPA METHOD 300.0: ANIONS</b>                |        |          |      |       |    |                      | Analyst: <b>JRR</b> |
| Chloride                                       | ND     | 30       |      | mg/Kg | 20 | 2/3/2014 12:36:12 PM | 11534               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.        | B Analyte detected in the associated Method Blank    |
|                    | E Value above quantitation range                  | H Holding times for preparation or analysis exceeded |
|                    | J Analyte detected below quantitation limits      | ND Not Detected at the Reporting Limit               |
|                    | O RSD is greater than RSDlimit                    | P Sample pH greater than 2 for VOA and TOC only.     |
|                    | R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
|                    | S Spike Recovery outside accepted recovery limits |  |

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall 4-pt Comp

Project: Valencia GC B 1M

Collection Date: 1/30/2014 2:20:00 PM

Lab ID: 1401C25-004

Matrix: SOIL

Received Date: 1/31/2014 10:15:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                      | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 1/31/2014 9:40:22 PM | 11505               |
| Surr: DNOP                                     | 105    | 66-131   |      | %REC  | 1  | 1/31/2014 9:40:22 PM | 11505               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| Surr: BFB                                      | 85.3   | 74.5-129 |      | %REC  | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                      | Analyst: <b>JMP</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| Xylenes, Total                                 | ND     | 0.094    |      | mg/Kg | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| Surr: 4-Bromofluorobenzene                     | 93.4   | 80-120   |      | %REC  | 1  | 2/1/2014 8:57:31 PM  | 11514               |
| <b>EPA METHOD 300.0: ANIONS</b>                |        |          |      |       |    |                      | Analyst: <b>JRR</b> |
| Chloride                                       | ND     | 30       |      | mg/Kg | 20 | 2/3/2014 12:48:37 PM | 11534               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |   |  |
|--------------------|---|--|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.        | B Analyte detected in the associated Method Blank    |
|                    | E Value above quantitation range                  | H Holding times for preparation or analysis exceeded |
|                    | J Analyte detected below quantitation limits      | ND Not Detected at the Reporting Limit               |
|                    | O RSD is greater than RSDlimit                    | P Sample pH greater than 2 for VOA and TOC only.     |
|                    | R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
|                    | S Spike Recovery outside accepted recovery limits |  |

Analytical Report

Lab Order 1401C25

Date Reported: 2/5/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: North Wall 3-pt Comp

Project: Valencia GC B 1M

Collection Date: 1/30/2014 2:26:00 PM

Lab ID: 1401C25-005

Matrix: SOIL

Received Date: 1/31/2014 10:15:00 AM

| Analyses                                       | Result | RL       | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|----------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    |                       | Analyst: <b>BCN</b> |
| Diesel Range Organics (DRO)                    | ND     | 10       |      | mg/Kg | 1  | 1/31/2014 10:10:56 PM | 11505               |
| Surr: DNOP                                     | 113    | 66-131   |      | %REC  | 1  | 1/31/2014 10:10:56 PM | 11505               |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |          |      |       |    |                       | Analyst: <b>JMP</b> |
| Gasoline Range Organics (GRO)                  | ND     | 4.7      |      | mg/Kg | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| Surr: BFB                                      | 101    | 74.5-129 |      | %REC  | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |          |      |       |    |                       | Analyst: <b>JMP</b> |
| Benzene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| Toluene  | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| Ethylbenzene                                   | ND     | 0.047    |      | mg/Kg | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| Xylenes, Total                                 | ND     | 0.093    |      | mg/Kg | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| Surr: 4-Bromofluorobenzene                     | 92.9   | 80-120   |      | %REC  | 1  | 2/1/2014 9:26:08 PM   | 11514               |
| <b>EPA METHOD 300.0: ANIONS</b>                |        |          |      |       |    |                       | Analyst: <b>JRR</b> |
| Chloride                                       | ND     | 30       |      | mg/Kg | 20 | 2/3/2014 1:01:02 PM   | 11534               |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|             |   |  |
|-------------|---|--|
| Qualifiers: | * Value exceeds Maximum Contaminant Level.        | B Analyte detected in the associated Method Blank    |
|             | E Value above quantitation range                  | H Holding times for preparation or analysis exceeded |
|             | J Analyte detected below quantitation limits      | ND Not Detected at the Reporting Limit               |
|             | O RSD is greater than RSDlimit                    | P Sample pH greater than 2 for VOA and TOC only.     |
|             | R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
|             | S Spike Recovery outside accepted recovery limits |  |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C25

05-Feb-14

Client: Blagg Engineering

Project: Valencia GC B 1M

|            |          |                |           |             |                          |          |           |      |          |      |
|------------|----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | MB-11534 | SampType:      | MBLK      | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | PBS      | Batch ID:      | 11534     | RunNo:      | 16499                    |          |           |      |          |      |
| Prep Date: | 2/3/2014 | Analysis Date: | 2/3/2014  | SeqNo:      | 475170                   | Units:   | mg/Kg     |      |          |      |
| Analyte    | Result   | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | ND       | 1.5            |           |             |                          |          |           |      |          |      |

|            |           |                |           |             |                          |          |           |      |          |      |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID  | LCS-11534 | SampType:      | LCS       | TestCode:   | EPA Method 300.0: Anions |          |           |      |          |      |
| Client ID: | LCSS      | Batch ID:      | 11534     | RunNo:      | 16499                    |          |           |      |          |      |
| Prep Date: | 2/3/2014  | Analysis Date: | 2/3/2014  | SeqNo:      | 475171                   | Units:   | mg/Kg     |      |          |      |
| Analyte    | Result    | PQL            | SPK value | SPK Ref Val | %REC                     | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride   | 14        | 1.5            | 15.00     | 0           | 92.3                     | 90       | 110       |      |          |      |

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C25

05-Feb-14

Client: Blagg Engineering

Project: Valencia GC B IM

|                             |           |                |           |             |   |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID                   | MB-11505  | SampType:      | MBLK      | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | PBS       | Batch ID:      | 11505     | RunNo:      | 16420                                   |          |           |      |          |      |
| Prep Date:                  | 1/31/2014 | Analysis Date: | 1/31/2014 | SeqNo:      | 474322                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND        | 10             |           |             |   |          |           |      |          |      |
| Surr: DNOP                  | 8.1       |                | 10.00     |             | 81.1                                    | 66       | 131       |      |          |      |

|                             |           |                |           |             |   |          |           |      |          |      |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID                   | LCS-11505 | SampType:      | LCS       | TestCode:   | EPA Method 8015D: Diesel Range Organics |          |           |      |          |      |
| Client ID:                  | LCSS      | Batch ID:      | 11505     | RunNo:      | 16420                                   |          |           |      |          |      |
| Prep Date:                  | 1/31/2014 | Analysis Date: | 1/31/2014 | SeqNo:      | 474323                                  | Units:   | mg/Kg     |      |          |      |
| Analyte                     | Result    | PQL            | SPK value | SPK Ref Val | %REC                                    | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44        | 10             | 50.00     | 0           | 88.6                                    | 60.8     | 145       |      |          |      |
| Surr: DNOP                  | 4.2       |                | 5.000     |             | 84.3                                    | 66       | 131       |      |          |      |

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C25

05-Feb-14

**Client:** Blagg Engineering  
**Project:** Valencia GC B 1M

|                               |                  |                |                 |             |   |          |              |      |          |      |
|-------------------------------|------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                     | <b>MB-11514</b>  | SampType:      | <b>MBLK</b>     | TestCode:   | <b>EPA Method 8015D: Gasoline Range</b> |          |              |      |          |      |
| Client ID:                    | <b>PBS</b>       | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                            |          |              |      |          |      |
| Prep Date:                    | <b>1/31/2014</b> | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474130</b>                           | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                       | Result           | PQL            | SPK value       | SPK Ref Val | %REC                                    | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND               | 5.0            |                 |             |   |          |              |      |          |      |
| Surr: BFB                     | 820              |                | 1000            |             | 82.5                                    | 74.5     | 129          |      |          |      |

|                               |                  |                |                 |             |   |          |              |      |          |      |
|-------------------------------|------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                     | <b>LCS-11514</b> | SampType:      | <b>LCS</b>      | TestCode:   | <b>EPA Method 8015D: Gasoline Range</b> |          |              |      |          |      |
| Client ID:                    | <b>LCSS</b>      | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                            |          |              |      |          |      |
| Prep Date:                    | <b>1/31/2014</b> | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474131</b>                           | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                       | Result           | PQL            | SPK value       | SPK Ref Val | %REC                                    | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27               | 5.0            | 25.00           | 0           | 108                                     | 74.5     | 126          |      |          |      |
| Surr: BFB                     | 900              |                | 1000            |             | 89.8                                    | 74.5     | 129          |      |          |      |

|                               |                       |                |                 |             |   |          |              |      |          |      |
|-------------------------------|-----------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                     | <b>1401C25-001AMS</b> | SampType:      | <b>MS</b>       | TestCode:   | <b>EPA Method 8015D: Gasoline Range</b> |          |              |      |          |      |
| Client ID:                    | <b>NE Corner</b>      | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                            |          |              |      |          |      |
| Prep Date:                    | <b>1/31/2014</b>      | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474138</b>                           | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                       | Result                | PQL            | SPK value       | SPK Ref Val | %REC                                    | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 33                    | 4.8            | 23.79           | 7.438       | 109                                     | 69.5     | 145          |      |          |      |
| Surr: BFB                     | 1400                  |                | 951.5           |             | 149                                     | 74.5     | 129          |      |          | S    |

|                               |                        |                |                 |             |   |          |              |      |          |      |
|-------------------------------|------------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID                     | <b>1401C25-001AMSD</b> | SampType:      | <b>MSD</b>      | TestCode:   | <b>EPA Method 8015D: Gasoline Range</b> |          |              |      |          |      |
| Client ID:                    | <b>NE Corner</b>       | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                            |          |              |      |          |      |
| Prep Date:                    | <b>1/31/2014</b>       | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474139</b>                           | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                       | Result                 | PQL            | SPK value       | SPK Ref Val | %REC                                    | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 34                     | 4.7            | 23.74           | 7.438       | 113                                     | 69.5     | 145          | 3.04 | 20       |      |
| Surr: BFB                     | 1400                   |                | 949.7           |             | 145                                     | 74.5     | 129          | 0    | 0        | S    |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401C25

05-Feb-14

**Client:** Blagg Engineering  
**Project:** Valencia GC B 1M

| Sample ID                  | <b>MB-11514</b>  | SampType:      | <b>MBLK</b>     | TestCode:   | <b>EPA Method 8021B: Volatiles</b> |          |              |      |          |      |
|----------------------------|------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID:                 | <b>PBS</b>       | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                       |          |              |      |          |      |
| Prep Date:                 | <b>1/31/2014</b> | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474184</b>                      | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                    | Result           | PQL            | SPK value       | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | ND               | 0.050          |                 |             |                                    |          |              |      |          |      |
| Toluene                    | ND               | 0.050          |                 |             |                                    |          |              |      |          |      |
| Ethylbenzene               | ND               | 0.050          |                 |             |                                    |          |              |      |          |      |
| Xylenes, Total             | ND               | 0.10           |                 |             |                                    |          |              |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.89             |                | 1.000           |             | 89.3                               | 80       | 120          |      |          |      |

| Sample ID                  | <b>LCS-11514</b> | SampType:      | <b>LCS</b>      | TestCode:   | <b>EPA Method 8021B: Volatiles</b> |          |              |      |          |      |
|----------------------------|------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID:                 | <b>LCSS</b>      | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                       |          |              |      |          |      |
| Prep Date:                 | <b>1/31/2014</b> | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474185</b>                      | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                    | Result           | PQL            | SPK value       | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 1.1              | 0.050          | 1.000           | 0           | 112                                | 80       | 120          |      |          |      |
| Toluene                    | 1.1              | 0.050          | 1.000           | 0           | 107                                | 80       | 120          |      |          |      |
| Ethylbenzene               | 1.1              | 0.050          | 1.000           | 0           | 109                                | 80       | 120          |      |          |      |
| Xylenes, Total             | 3.3              | 0.10           | 3.000           | 0           | 109                                | 80       | 120          |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.96             |                | 1.000           |             | 96.1                               | 80       | 120          |      |          |      |

| Sample ID                  | <b>1401C25-002AMS</b>     | SampType:      | <b>MS</b>       | TestCode:   | <b>EPA Method 8021B: Volatiles</b> |          |              |      |          |      |
|----------------------------|---------------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID:                 | <b>East Wall 4-pt Com</b> | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                       |          |              |      |          |      |
| Prep Date:                 | <b>1/31/2014</b>          | Analysis Date: | <b>2/1/2014</b> | SeqNo:      | <b>474198</b>                      | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                    | Result                    | PQL            | SPK value       | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.96                      | 0.047          | 0.9337          | 0           | 103                                | 67.4     | 135          |      |          |      |
| Toluene                    | 0.95                      | 0.047          | 0.9337          | 0.01694     | 100                                | 72.6     | 135          |      |          |      |
| Ethylbenzene               | 0.99                      | 0.047          | 0.9337          | 0.03028     | 102                                | 69.4     | 143          |      |          |      |
| Xylenes, Total             | 3.0                       | 0.093          | 2.801           | 0.1011      | 103                                | 70.8     | 144          |      |          |      |
| Surr: 4-Bromofluorobenzene | 0.91                      |                | 0.9337          |             | 97.3                               | 80       | 120          |      |          |      |

| Sample ID                  | <b>1401C25-002AMSD</b>    | SampType:      | <b>MSD</b>      | TestCode:   | <b>EPA Method 8021B: Volatiles</b> |          |              |      |          |      |
|----------------------------|---------------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID:                 | <b>East Wall 4-pt Com</b> | Batch ID:      | <b>11514</b>    | RunNo:      | <b>16439</b>                       |          |              |      |          |      |
| Prep Date:                 | <b>1/31/2014</b>          | Analysis Date: | <b>2/2/2014</b> | SeqNo:      | <b>474199</b>                      | Units:   | <b>mg/Kg</b> |      |          |      |
| Analyte                    | Result                    | PQL            | SPK value       | SPK Ref Val | %REC                               | LowLimit | HighLimit    | %RPD | RPDLimit | Qual |
| Benzene                    | 0.94                      | 0.047          | 0.9311          | 0           | 101                                | 67.4     | 135          | 2.07 | 20       |      |
| Toluene                    | 0.92                      | 0.047          | 0.9311          | 0.01694     | 96.5                               | 72.6     | 135          | 4.08 | 20       |      |
| Ethylbenzene               | 0.95                      | 0.047          | 0.9311          | 0.03028     | 98.6                               | 69.4     | 143          | 3.87 | 20       |      |
| Xylenes, Total             | 2.9                       | 0.093          | 2.793           | 0.1011      | 98.7                               | 70.8     | 144          | 3.96 | 20       |      |
| Surr: 4-Bromofluorobenzene | 0.91                      |                | 0.9311          |             | 97.3                               | 80       | 120          | 0    | 0        |      |

**Qualifiers:**

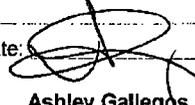
- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

**Sample Log-In Check List**

Client Name: **BLAGG**

Work Order Number: **1401C25**

ReptNo: **1**

Received by/date:  01/31/14

Logged By: **Ashley Gallegos** 1/31/2014 10:15:00 AM 

Completed By: **Ashley Gallegos** 1/31/2014 11:47:39 AM 

Reviewed By: IO 01/31/2014

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA   
Not required
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No   
(Note discrepancies on chain of custody)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No   
(If no, notify customer for authorization.)

# of preserved bottles checked for pH: \_\_\_\_\_  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

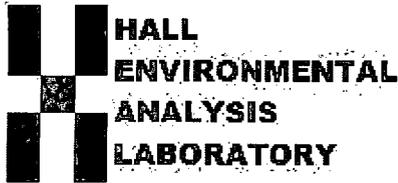
- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 6.5     | Good      | Yes         |         |           |           |



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 02, 2014

Nelson Velez

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-3489

FAX (505) 632-3903

## MW-2A Lab Report

RE: VALENCIA GC B # 1M

OrderNo.: 1404993

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/23/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Chain-of-Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87**  
**BLOOMFIELD, NM 87413**

Phone #: **(505) 632-1199**

email or Fax#:

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

Accreditation:  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Standard  Rush

Project Name:  
**VALENCIA GC B # 1M**

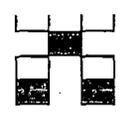
Project #:

Project Manager:  
**NELSON VELEZ**

Sampler: **NELSON VELEZ** *9/25*

On Ice:  Yes  No

Sample Temperature: *3.2°*



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

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

Analysis Request

| Date    | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type                     | HEAL NO | BTEX + MTBE + TMS (8021B) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MIRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | Total Dissolved Solids | Iron, Ferrous (filtered) | Nitrate N / Nitrite N | Grab sample | 5 pt. composite sample |  |
|---------|------|--------|-------------------|----------------------|---------------------------------------|---------|---------------------------|------------------------------|------------------------------|--------------------|--------------------|------------------------|---------------|--|------------------------|--------------------------|-----------------------|-------------|------------------------|--|
| 4/22/14 | 1315 | WATER  | MW # 2A           | 40 ml VOA - 2        | HCl & Cool                            | -001    | ✓                         |                              |                              |                    |                    |                        |               |  |                        |                          |                       |             | ✓                      |  |
| 4/22/14 | 1315 | WATER  | MW # 2A           | 500 ml - 1           | Cool                                  | -001    |                           |                              |                              |                    |                    |                        |               | ✓  | ✓                      |                          |                       |             | ✓                      |  |
| 4/22/14 | 1315 | WATER  | MW # 2A           | 125 ml - 1           | HNO <sub>3</sub> & Cool               | -001    |                           |                              |                              |                    |                    |                        |               |  |                        | ✓                        |                       |             | ✓                      |  |
| 4/22/14 | 1315 | WATER  | MW # 2A           | 125 ml - 1           | H <sub>2</sub> SO <sub>4</sub> & Cool | -001    |                           |                              |                              |                    |                    |                        |               |  |                        |                          | ✓                     |             | ✓                      |  |

Date: *4/22/14* Time: *1559* Relinquished by: *[Signature]*

Date: *4/22/14* Time: *1725* Relinquished by: *[Signature]*

Received by: *[Signature]* Date: *4/22/14* Time: *1559*

Received by: *[Signature]* Date: *04/23/14* Time: *10:02*

Remarks:

Send invoice to:

**Blagg Engineering, Inc.**  
 P.O. Box 87  
 Bloomfield, NM 87413

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



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404993

02-May-14

Client: Blagg Engineering  
Project: VALENCIA GC B # 1M

|            |            |                |                  |             |   |          |             |      |          |      |
|------------|------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID  | <b>MB</b>  | SampType:      | <b>MBLK</b>      | TestCode:   | <b>EPA Method 200.7: Dissolved Metals</b> |          |             |      |          |      |
| Client ID: | <b>PBW</b> | Batch ID:      | <b>R18197</b>    | RunNo:      | <b>18197</b>                              |          |             |      |          |      |
| Prep Date: |            | Analysis Date: | <b>4/24/2014</b> | SeqNo:      | <b>525096</b>                             | Units:   | <b>mg/L</b> |      |          |      |
| Analyte    | Result     | PQL            | SPK value        | SPK Ref Val | %REC                                      | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Iron       | ND         | 0.020          |                  |             |   |          |             |      |          |      |

|            |             |                |                  |             |   |          |             |      |          |      |
|------------|-------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID  | <b>LCS</b>  | SampType:      | <b>LCS</b>       | TestCode:   | <b>EPA Method 200.7: Dissolved Metals</b> |          |             |      |          |      |
| Client ID: | <b>LCSW</b> | Batch ID:      | <b>R18197</b>    | RunNo:      | <b>18197</b>                              |          |             |      |          |      |
| Prep Date: |             | Analysis Date: | <b>4/24/2014</b> | SeqNo:      | <b>525097</b>                             | Units:   | <b>mg/L</b> |      |          |      |
| Analyte    | Result      | PQL            | SPK value        | SPK Ref Val | %REC                                      | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Iron       | 0.49        | 0.020          | 0.5000           | 0           | 98.8                                      | 85       | 115         |      |          |      |

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404993

02-May-14

Client: Blagg Engineering  
Project: VALENCIA GC B # 1M

|            |            |                |                  |             |                                 |          |             |      |          |      |
|------------|------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID  | <b>MB</b>  | SampType:      | <b>MBLK</b>      | TestCode:   | <b>EPA Method 300.0: Anions</b> |          |             |      |          |      |
| Client ID: | <b>PBW</b> | Batch ID:      | <b>R18205</b>    | RunNo:      | <b>18205</b>                    |          |             |      |          |      |
| Prep Date: |            | Analysis Date: | <b>4/24/2014</b> | SeqNo:      | <b>525436</b>                   | Units:   | <b>mg/L</b> |      |          |      |
| Analyte    | Result     | PQL            | SPK value        | SPK Ref Val | %REC                            | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | ND         | 0.10           |                  |             |                                 |          |             |      |          |      |
| Chloride   | ND         | 0.50           |                  |             |                                 |          |             |      |          |      |
| Sulfate    | ND         | 0.50           |                  |             |                                 |          |             |      |          |      |

|            |             |                |                  |             |                                 |          |             |      |          |      |
|------------|-------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID  | <b>LCS</b>  | SampType:      | <b>LCS</b>       | TestCode:   | <b>EPA Method 300.0: Anions</b> |          |             |      |          |      |
| Client ID: | <b>LCSW</b> | Batch ID:      | <b>R18205</b>    | RunNo:      | <b>18205</b>                    |          |             |      |          |      |
| Prep Date: |             | Analysis Date: | <b>4/24/2014</b> | SeqNo:      | <b>525437</b>                   | Units:   | <b>mg/L</b> |      |          |      |
| Analyte    | Result      | PQL            | SPK value        | SPK Ref Val | %REC                            | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Fluoride   | 0.48        | 0.10           | 0.5000           | 0           | 96.6                            | 90       | 110         |      |          |      |
| Chloride   | 4.6         | 0.50           | 5.000            | 0           | 92.4                            | 90       | 110         |      |          |      |
| Sulfate    | 9.3         | 0.50           | 10.00            | 0           | 93.1                            | 90       | 110         |      |          |      |

|                      |            |                |                  |             |                                 |          |             |      |          |      |
|----------------------|------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID            | <b>MB</b>  | SampType:      | <b>MBLK</b>      | TestCode:   | <b>EPA Method 300.0: Anions</b> |          |             |      |          |      |
| Client ID:           | <b>PBW</b> | Batch ID:      | <b>R18329</b>    | RunNo:      | <b>18329</b>                    |          |             |      |          |      |
| Prep Date:           |            | Analysis Date: | <b>4/30/2014</b> | SeqNo:      | <b>529476</b>                   | Units:   | <b>mg/L</b> |      |          |      |
| Analyte              | Result     | PQL            | SPK value        | SPK Ref Val | %REC                            | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | ND         | 0.20           |                  |             |                                 |          |             |      |          |      |

|                      |             |                |                  |             |                                 |          |             |      |          |      |
|----------------------|-------------|----------------|------------------|-------------|---------------------------------|----------|-------------|------|----------|------|
| Sample ID            | <b>LCS</b>  | SampType:      | <b>LCS</b>       | TestCode:   | <b>EPA Method 300.0: Anions</b> |          |             |      |          |      |
| Client ID:           | <b>LCSW</b> | Batch ID:      | <b>R18329</b>    | RunNo:      | <b>18329</b>                    |          |             |      |          |      |
| Prep Date:           |             | Analysis Date: | <b>4/30/2014</b> | SeqNo:      | <b>529477</b>                   | Units:   | <b>mg/L</b> |      |          |      |
| Analyte              | Result      | PQL            | SPK value        | SPK Ref Val | %REC                            | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.4         | 0.20           | 3.500            | 0           | 97.4                            | 90       | 110         |      |          |      |

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404993

02-May-14

Client: Blagg Engineering  
Project: VALENCIA GC B # 1M

| Sample ID                  | 5ML RB | SampType:      | MBLK      | TestCode:   | EPA Method 8021B: Volatiles |          |           |      |          |      |
|----------------------------|--------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID:                 | PBW    | Batch ID:      | R18204    | RunNo:      | 18204                       |          |           |      |          |      |
| Prep Date:                 |        | Analysis Date: | 4/24/2014 | SeqNo:      | 525419                      | Units:   | µg/L      |      |          |      |
| Analyte                    | Result | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Toluene                    | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Ethylbenzene               | ND     | 1.0            |           |             |                             |          |           |      |          |      |
| Xylenes, Total             | ND     | 2.0            |           |             |                             |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene | 19     |                | 20.00     |             | 96.8                        | 82.9     | 139       |      |          |      |

| Sample ID                  | 100NG BTEX LCS | SampType:      | LCS       | TestCode:   | EPA Method 8021B: Volatiles |          |           |      |          |      |
|----------------------------|----------------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Client ID:                 | LCSW           | Batch ID:      | R18204    | RunNo:      | 18204                       |          |           |      |          |      |
| Prep Date:                 |                | Analysis Date: | 4/24/2014 | SeqNo:      | 525420                      | Units:   | µg/L      |      |          |      |
| Analyte                    | Result         | PQL            | SPK value | SPK Ref Val | %REC                        | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                    | 21             | 1.0            | 20.00     | 0           | 106                         | 80       | 120       |      |          |      |
| Toluene                    | 21             | 1.0            | 20.00     | 0           | 105                         | 80       | 120       |      |          |      |
| Ethylbenzene               | 21             | 1.0            | 20.00     | 0           | 105                         | 80       | 120       |      |          |      |
| Xylenes, Total             | 64             | 2.0            | 60.00     | 0           | 106                         | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene | 20             |                | 20.00     |             | 99.0                        | 82.9     | 139       |      |          |      |

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
E Value above quantitation range  
J Analyte detected below quantitation limits  
O RSD is greater than RSDlimit  
R RPD outside accepted recovery limits  
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
P Sample pH greater than 2.  
RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404993

02-May-14

**Client:** Blagg Engineering  
**Project:** VALENCIA GC B # 1M

|                        |                  |                |                  |             |  |          |             |      |          |      |
|------------------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID              | <b>MB-12902</b>  | SampType:      | <b>MBLK</b>      | TestCode:   | <b>SM2540C MOD: Total Dissolved Solids</b> |          |             |      |          |      |
| Client ID:             | <b>PBW</b>       | Batch ID:      | <b>12902</b>     | RunNo:      | <b>18294</b>                               |          |             |      |          |      |
| Prep Date:             | <b>4/28/2014</b> | Analysis Date: | <b>4/29/2014</b> | SeqNo:      | <b>528264</b>                              | Units:   | <b>mg/L</b> |      |          |      |
| Analyte                | Result           | PQL            | SPK value        | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | ND               | 20.0           |                  |             |  |          |             |      |          |      |

|                        |                  |                |                  |             |  |          |             |      |          |      |
|------------------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID              | <b>LCS-12902</b> | SampType:      | <b>LCS</b>       | TestCode:   | <b>SM2540C MOD: Total Dissolved Solids</b> |          |             |      |          |      |
| Client ID:             | <b>LCSW</b>      | Batch ID:      | <b>12902</b>     | RunNo:      | <b>18294</b>                               |          |             |      |          |      |
| Prep Date:             | <b>4/28/2014</b> | Analysis Date: | <b>4/29/2014</b> | SeqNo:      | <b>528265</b>                              | Units:   | <b>mg/L</b> |      |          |      |
| Analyte                | Result           | PQL            | SPK value        | SPK Ref Val | %REC                                       | LowLimit | HighLimit   | %RPD | RPDLimit | Qual |
| Total Dissolved Solids | 1000             | 20.0           | 1000             | 0           | 100  | 80       | 120         |      |          |      |

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

# Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1404993** RcptNo: **1**

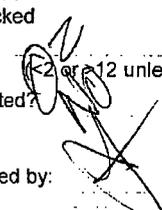
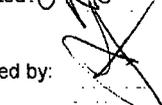
Received by/date: **CS** **04/23/14**  
 Logged By: **Celina Sessa** **4/23/2014 10:02:00 AM**  
 Completed By: **Celina Sessa** **4/24/2014 8:36:25 AM**  
 Reviewed By:  **04/24/14**

### Chain of Custody

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

### Log In

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes  No
- 13. Are matrices correctly identified on Chain of Custody? Yes  No
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes  No

# of preserved bottles checked for pH:  
 2 or 12 unless noted  
 Adjusted:   
 Checked by: 

### Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

|                      |                      |       |   |
|----------------------|----------------------|-------|---|
| Person Notified:     | <input type="text"/> | Date: | <input type="text"/>  |
| By Whom:             | <input type="text"/> | Via:  | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding:           | <input type="text"/> |       |   |
| Client Instructions: | <input type="text"/> |       |   |

17. Additional remarks:

### 18. Cooler Information

| Cooler No. | Temp. °C | Condition | Seal Intact | Seal No. | Seal Date | Signed By |
|------------|----------|-----------|-------------|----------|-----------|-----------|
| 1          | 3.2      | Good      | Yes         |          |           |           |

Valencia GC B 1M

Preliminary Investigation of Impacts

CLIENT: BP

API #: 3004524952

TANK ID (if applicable):   

**FIELD REPORT:**

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: 1 of 1

**SITE INFORMATION:**

SITE NAME: VALENZA GC B #1M

DATE STARTED: 05/15/13

QUAD/UNIT: K SEC: 18 TWP: 29N RNG: 9W PM: NM CNTY: SJ ST: NM

DATE FINISHED:   

1/4-1/4 FOOTAGE: 1,670' S 1,560' W NETS: W LEASE TYPE: FEDERAL / STATE (FEE) INDIAN

ENVIRONMENTAL SPECIALIST(S): NJV

LEASE #:    PROD. FORMATION: MU/DK CONTRACTOR: ELKHORN MRF - B. SCHURMAN

**REFERENCE POINT:**

WELL HEAD (WH) GPS COORD: 36.723191 x 107.821599 GLELEV: 5,537'

- |                              |  |   |
|------------------------------|--|---|
| 1) <u>100 BBL PROD. TANK</u> | GPS COORD: <u>36.723364 x 107.821316</u> | DISTANCE/BEARING FROM WH: <u>104' N53E</u>    |
| 2) <u>95 BGT (DW/DB)</u>     | GPS COORD: <u>36.723274 x 107.821284</u> | DISTANCE/BEARING FROM WH: <u>97' N72E</u>     |
| 3) <u>VAC - PH1</u>          | GPS COORD: <u>36.723305 x 107.821348</u> | DISTANCE/BEARING FROM WH: <u>84' N61E</u>     |
| 4) <u>VAC - PH2</u>          | GPS COORD: <u>36.723284 x 107.821305</u> | DISTANCE/BEARING FROM WH: <u>92.5' N68.5E</u> |

**SAMPLING DATA:**

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

| SAMPLE ID                  | SAMPLE DATE     | SAMPLE TIME | LAB ANALYSIS         | OMV READING (ppm) |
|----------------------------|-----------------|-------------|----------------------|-------------------|
| 1) <u>VAC - PH1 @ 2'</u>   | <u>05/15/13</u> | <u>1437</u> | <u>8015B   8021B</u> | <u>50.2</u>       |
| 2) <u>VAC - PH2 @ 2.5'</u> | <u>05/15/13</u> | <u>1444</u> | <u>"   "</u>         | <u>114.4</u>      |
| 3) <u>  </u>               | <u>  </u>       | <u>  </u>   | <u>  </u>            | <u>  </u>         |
| 4) <u>  </u>               | <u>  </u>       | <u>  </u>   | <u>  </u>            | <u>  </u>         |

**SOIL DESCRIPTION:**

SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL OTHER

SOIL COLOR: DARK YELLOWISH ORANGE

COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM DENSE / VERY DENSE

MOISTURE: DRY SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB COMPOSITE - # OF PTS: NA

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION: DARK GRAY TO BLACK IN VAC-PH1 & VAC-PH2

APPROXIMATELY 2 - 2 1/2 FT. BELOW GRADE.

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION:   

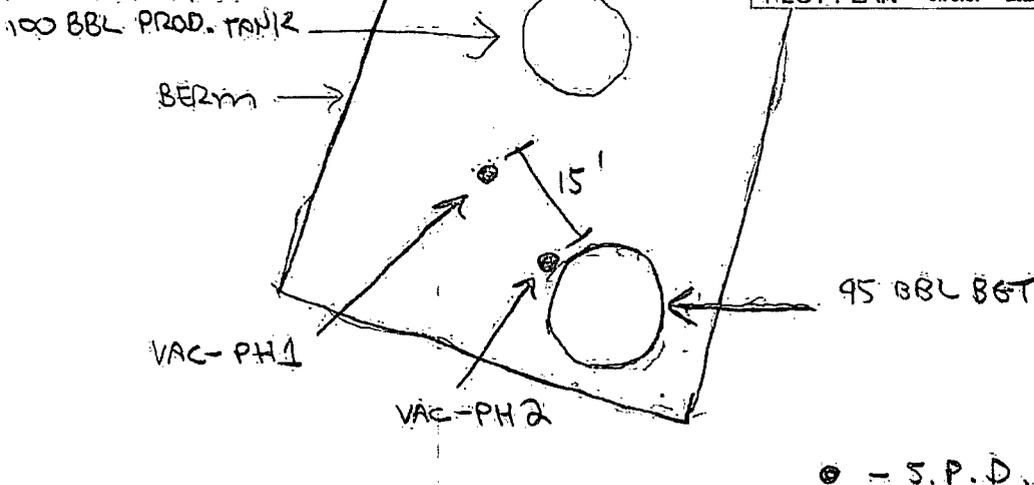
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: APPEARS HISTORICAL BASED ON DISCOLORATION

ADDITIONAL COMMENTS: ON-SITE MONITOR WELL RECORDED GROUND WATER AT 3 FT. BELOW GRADE. PLAN TO REMOVE BGT TOMORROW & CONTINUE INVESTIGATION.

SOIL IMPACT DIMENSION ESTIMATION:    ft X    ft X    ft; EXCAVATION ESTIMATION (Cubic Yards):   

DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: > 1,000' NEAREST SURFACE WATER: < 1,000' NMOC DTPH CLOSURE STD: 100 ppm

**SITE SKETCH**



OVM CALIB: READ = 53.0 ppm RF = 0.52  
 OVM CALIB: GAS = 100 ppm  
 TIME: 2:45 am DATE: 05/15/13

**MISCELL. NOTES**

WO: N15182813  
 PO#:     
 PK: 2EUVH01 BGT2  
 PJ#: 22-00613-C  
 Permit date(s):     
 OCD Appr. date(s):     
 Tank ID:    OVM = Organic Vapor Meter, ppm = parts per million  
 BGT Sidewalls Visible: Y / N  
 BGT Sidewalls Visible: Y / N  
 BGT Sidewalls Visible: Y / N

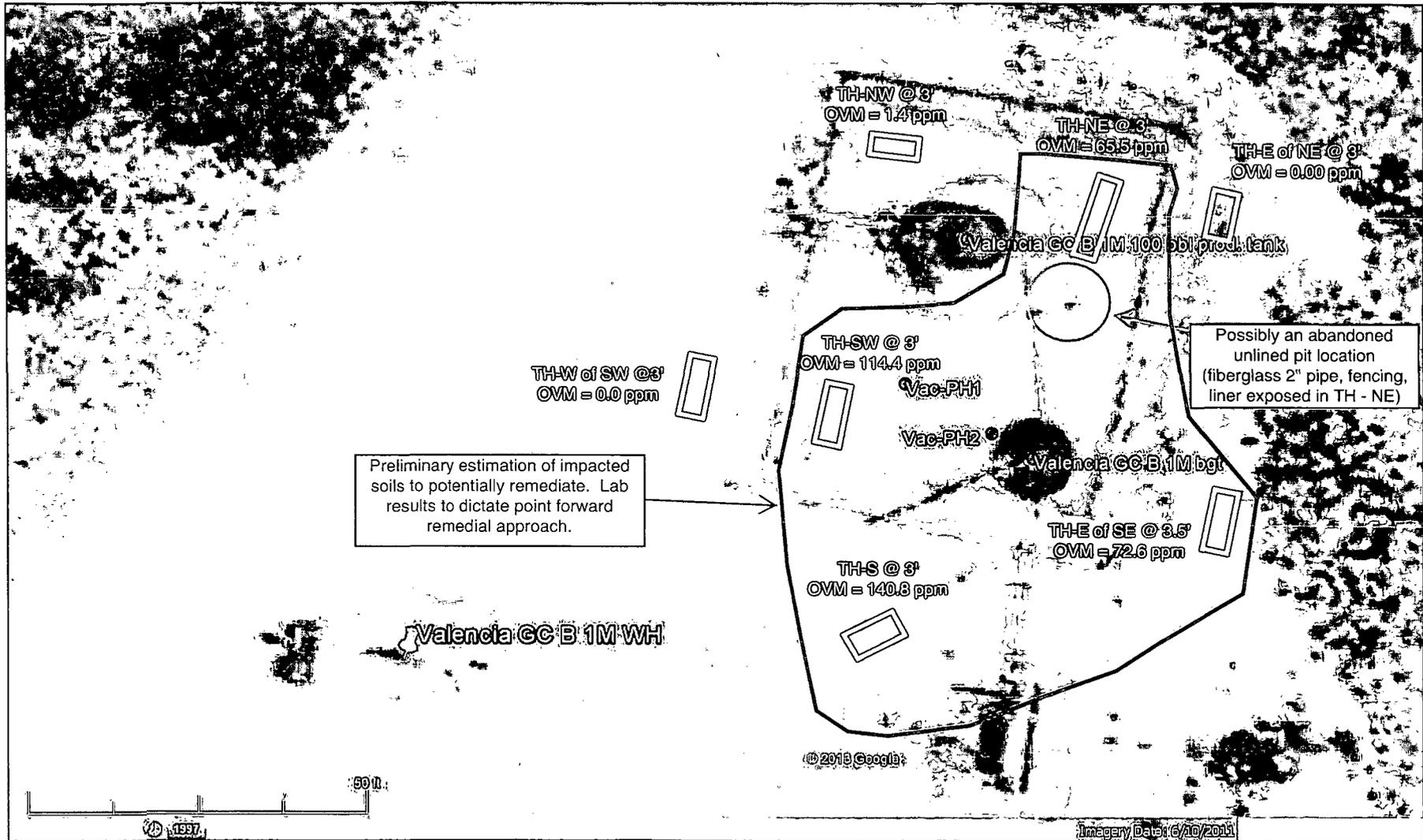
Magnetic declination: 10° E

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; - = APPROX.; WH. = WELL HEAD; T.B. = TANK BOTTOM; PBGT.L. = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW = SINGLE WALL; DW = DOUBLE WALL; SB = SINGLE BOTTOM; DB = DOUBLE BOTTOM.

TRAVEL NOTES:   

CALLOUT:   

ONSITE: 05/15/13, 05/16/13



Preliminary estimation of impacted soils to potentially remediate. Lab results to dictate point forward remedial approach.

Possibly an abandoned unlined pit location (fiberglass 2" pipe, fencing, liner exposed in TH - NE)

BP - Valencia GC B # 1M  
 NE/4 SW/4, Section 18, T29N, R9W  
 36.723191°N / 107.821599°W



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 21, 2013

Nelson Velez

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-3489

FAX (505) 632-3903

RE: Valencia GC B #1M

OrderNo.: 1305710

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/17/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Chain-of-Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87  
BLOOMFIELD, NM 87413**

Phone #: **(505) 632-1199**

email or Fax#:

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

Accreditation:  
 NELAP     Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: **COMPLETE BY 5/17/13**

Standard     Rush

Project Name: **VALENCIA GC B # 1M**

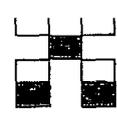
Project #:

Project Manager: **NELSON VELEZ**

Sampler: **NELSON VELEZ**

On Ice:  Yes     No

Sample Temperature: **1.0**



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

### Analysis Request

| Date    | Time | Matrix | Sample Request ID   | Container Type and # | Preservative Type | HEAL No. | BTEX + MTBE + TMS (8021B) | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / HRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil - 300.0 / water - 300.1) | Grab sample | 5 pt. composite sample |  |
|---------|------|--------|---------------------|----------------------|-------------------|----------|---------------------------|------------------------------|-----------------------------|--------------------|--------------------|------------------------|---------------|--|------------------------------|-------------|-----------------|---|-------------|------------------------|--|
| 5/15/13 | 1437 | SOIL   | VAC-PH1 @ 2'        | 4 oz. - 1            | Cool              | -001     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/15/13 | 1444 | SOIL   | VAC-PH2 @ 2.5'      | 4 oz. - 1            | Cool              | -002     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1030 | SOIL   | TH - NE @ 3'        | 4 oz. - 1            | Cool              | -003     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1045 | SOIL   | TH - NW @ 3'        | 4 oz. - 1            | Cool              | -004     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1055 | SOIL   | TH - SW @ 3'        | 4 oz. - 1            | Cool              | -005     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1100 | SOIL   | TH - W of SW @ 3'   | 4 oz. - 1            | Cool              | -004     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1110 | SOIL   | TH - E of NE @ 4'   | 4 oz. - 1            | Cool              | -007     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1115 | SOIL   | TH - E of SE @ 3.5' | 4 oz. - 1            | Cool              | -008     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |
| 5/16/13 | 1125 | SOIL   | TH - S @ 3'         | 4 oz. - 1            | Cool              | -009     | ✓                         | ✓                            |                             |                    |                    |                        |               |  |                              |             |                 |   |             | ✓                      |  |

Date: **5/16/13** Time: **1356** Relinquished by: *[Signature]*

Date: **5/16/13** Time: **1750** Relinquished by: *[Signature]*

Received by: *[Signature]* Date: **5/16/13** Time: **1350**

Received by: *[Signature]* Date: **05/17/13** Time: **10:03**

Remarks: **BILL DIRECTLY TO BP:  
Jeff Peace, 200 Energy Court, Farmington, NM 87401**

Work Order: **N15182813** Paykey: **ZEVH01BGT2**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any such subcontracted data will be stated as such on the report.

30

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: VAC-PH1 @ 2'

Project: Valencia GC B #1M

Collection Date: 5/15/2013 2:37:00 PM

Lab ID: 1305710-001

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>GSA</b> |
| Diesel Range Organics (DRO)                    | ND     | 10     |      | mg/Kg | 1  | 5/17/2013 12:35:31 PM | 7492                |
| Surr: DNOP                                     | 88.4   | 63-147 |      | %REC  | 1  | 5/17/2013 12:35:31 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 56     | 25     |      | mg/Kg | 5  | 5/17/2013 11:16:46 AM | R10713              |
| Surr: BFB                                      | 224    | 80-120 | S    | %REC  | 5  | 5/17/2013 11:16:46 AM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.12   |      | mg/Kg | 5  | 5/17/2013 11:16:46 AM | R10713              |
| Toluene  | ND     | 0.25   |      | mg/Kg | 5  | 5/17/2013 11:16:46 AM | R10713              |
| Ethylbenzene                                   | ND     | 0.25   |      | mg/Kg | 5  | 5/17/2013 11:16:46 AM | R10713              |
| Xylenes, Total                                 | ND     | 0.50   |      | mg/Kg | 5  | 5/17/2013 11:16:46 AM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 107    | 80-120 |      | %REC  | 5  | 5/17/2013 11:16:46 AM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** VAC-PH2 @ 2.5'**Project:** Valencia GC B #1M**Collection Date:** 5/15/2013 2:44:00 PM**Lab ID:** 1305710-002**Matrix:** MEOH (SOIL)**Received Date:** 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>GSA</b> |
| Diesel Range Organics (DRO)                    | 18     | 10     |      | mg/Kg | 1  | 5/17/2013 12:57:27 PM | 7492                |
| Surr: DNOP                                     | 107    | 63-147 |      | %REC  | 1  | 5/17/2013 12:57:27 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 43     | 10     |      | mg/Kg | 2  | 5/17/2013 11:12:35 PM | R10713              |
| Surr: BFB                                      | 119    | 80-120 |      | %REC  | 2  | 5/17/2013 11:12:35 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:12:35 PM | R10713              |
| Toluene  | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:12:35 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:12:35 PM | R10713              |
| Xylenes, Total                                 | 0.20   | 0.20   |      | mg/Kg | 2  | 5/17/2013 11:12:35 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 108    | 80-120 |      | %REC  | 2  | 5/17/2013 11:12:35 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: TH-NE @ 3'

Project: Valencia GC B #1M

Collection Date: 5/16/2013 10:30:00 AM

Lab ID: 1305710-003

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>GSA</b> |
| Diesel Range Organics (DRO)                    | 46     | 10     |      | mg/Kg | 1  | 5/17/2013 1:19:31 PM  | 7492                |
| Surr: DNOP                                     | 101    | 63-147 |      | %REC  | 1  | 5/17/2013 1:19:31 PM  | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 38     | 10     |      | mg/Kg | 2  | 5/17/2013 11:41:06 PM | R10713              |
| Surr: BFB                                      | 108    | 80-120 |      | %REC  | 2  | 5/17/2013 11:41:06 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:41:06 PM | R10713              |
| Toluene  | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:41:06 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.10   |      | mg/Kg | 2  | 5/17/2013 11:41:06 PM | R10713              |
| Xylenes, Total                                 | ND     | 0.20   |      | mg/Kg | 2  | 5/17/2013 11:41:06 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 106    | 80-120 |      | %REC  | 2  | 5/17/2013 11:41:06 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH-NW @ 3'

Project: Valencia GC B #1M

Collection Date: 5/16/2013 10:45:00 AM

Lab ID: 1305710-004

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed         | Batch               |
|--|--------|--------|------|-------|----|-----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                       | Analyst: <b>GSA</b> |
| Diesel Range Organics (DRO)                    | ND     | 10     |      | mg/Kg | 1  | 5/17/2013 1:41:39 PM  | 7492                |
| Surr: DNOP                                     | 92.1   | 63-147 |      | %REC  | 1  | 5/17/2013 1:41:39 PM  | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | ND     | 5.0    |      | mg/Kg | 1  | 5/17/2013 12:42:34 PM | R10713              |
| Surr: BFB                                      | 96.7   | 80-120 |      | %REC  | 1  | 5/17/2013 12:42:34 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                       | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 12:42:34 PM | R10713              |
| Toluene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 12:42:34 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 12:42:34 PM | R10713              |
| Xylenes, Total                                 | ND     | 0.10   |      | mg/Kg | 1  | 5/17/2013 12:42:34 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 98.5   | 80-120 |      | %REC  | 1  | 5/17/2013 12:42:34 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH-SW @ 3'  
 Project: Valencia GC B #1M Collection Date: 5/16/2013 10:55:00 AM  
 Lab ID: 1305710-005 Matrix: MEOH (SOIL) Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | 270    | 9.9    |      | mg/Kg | 1  | 5/17/2013 4:32:09 PM | 7492                |
| Surr: DNOP                                     | 111    | 63-147 |      | %REC  | 1  | 5/17/2013 4:32:09 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 570    | 50     |      | mg/Kg | 10 | 5/17/2013 1:11:05 PM | R10713              |
| Surr: BFB                                      | 791    | 80-120 | S    | %REC  | 10 | 5/17/2013 1:11:05 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.20   |      | mg/Kg | 10 | 5/17/2013 1:11:05 PM | R10713              |
| Toluene  | ND     | 0.50   |      | mg/Kg | 10 | 5/17/2013 1:11:05 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.50   |      | mg/Kg | 10 | 5/17/2013 1:11:05 PM | R10713              |
| Xylenes, Total                                 | 3.8    | 1.0    |      | mg/Kg | 10 | 5/17/2013 1:11:05 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 127    | 80-120 | S    | %REC  | 10 | 5/17/2013 1:11:05 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering  
**Project:** Valencia GC B #1M  
**Lab ID:** 1305710-006

**Client Sample ID:** TH-W of SW @ 3'  
**Collection Date:** 5/16/2013 11:00:00 AM  
**Received Date:** 5/17/2013 10:03:00 AM

**Matrix:** MEOH (SOIL)

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | ND     | 10     |      | mg/Kg | 1  | 5/17/2013 5:00:26 PM | 7492                |
| Surr: DNOP                                     | 110    | 63-147 |      | %REC  | 1  | 5/17/2013 5:00:26 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | ND     | 5.0    |      | mg/Kg | 1  | 5/17/2013 1:39:51 PM | R10713              |
| Surr: BFB                                      | 149    | 80-120 | S    | %REC  | 1  | 5/17/2013 1:39:51 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 1:39:51 PM | R10713              |
| Toluene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 1:39:51 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 1:39:51 PM | R10713              |
| Xylenes, Total                                 | ND     | 0.10   |      | mg/Kg | 1  | 5/17/2013 1:39:51 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 101    | 80-120 |      | %REC  | 1  | 5/17/2013 1:39:51 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level.       | B Analyte detected in the associated Method Blank    |
|                    | E Value above quantitation range                 | H Holding times for preparation or analysis exceeded |
|                    | J Analyte detected below quantitation limits     | ND Not Detected at the Reporting Limit               |
|                    | P Sample pH greater than 2 for VOA and TOC only. | R RPD outside accepted recovery limits               |
|                    | RL Reporting Detection Limit                     | S Spike Recovery outside accepted recovery limits    |

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: TH-E of NE @ 4'

Project: Valencia GC B #1M

Collection Date: 5/16/2013 11:10:00 AM

Lab ID: 1305710-007

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | ND     | 10     |      | mg/Kg | 1  | 5/17/2013 5:28:42 PM | 7492                |
| Surr: DNOP                                     | 108    | 63-147 |      | %REC  | 1  | 5/17/2013 5:28:42 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | ND     | 5.0    |      | mg/Kg | 1  | 5/17/2013 2:08:36 PM | R10713              |
| Surr: BFB                                      | 109    | 80-120 |      | %REC  | 1  | 5/17/2013 2:08:36 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 2:08:36 PM | R10713              |
| Toluene  | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 2:08:36 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.050  |      | mg/Kg | 1  | 5/17/2013 2:08:36 PM | R10713              |
| Xylenes, Total                                 | ND     | 0.10   |      | mg/Kg | 1  | 5/17/2013 2:08:36 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 100    | 80-120 |      | %REC  | 1  | 5/17/2013 2:08:36 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: TH-E of SE @ 3.5'

Project: Valencia GC B #1M

Collection Date: 5/16/2013 11:15:00 AM

Lab ID: 1305710-008

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | 21     | 10     |      | mg/Kg | 1  | 5/17/2013 5:57:00 PM | 7492                |
| Surr: DNOP                                     | 109    | 63-147 |      | %REC  | 1  | 5/17/2013 5:57:00 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 61     | 25     |      | mg/Kg | 5  | 5/17/2013 2:37:20 PM | R10713              |
| Surr: BFB                                      | 261    | 80-120 | S    | %REC  | 5  | 5/17/2013 2:37:20 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | ND     | 0.12   |      | mg/Kg | 5  | 5/17/2013 2:37:20 PM | R10713              |
| Toluene  | ND     | 0.25   |      | mg/Kg | 5  | 5/17/2013 2:37:20 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.25   |      | mg/Kg | 5  | 5/17/2013 2:37:20 PM | R10713              |
| Xylenes, Total                                 | ND     | 0.50   |      | mg/Kg | 5  | 5/17/2013 2:37:20 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 106    | 80-120 |      | %REC  | 5  | 5/17/2013 2:37:20 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH-S @ 3'

Project: Valencia GC B #1M

Collection Date: 5/16/2013 11:25:00 AM

Lab ID: 1305710-009

Matrix: MEOH (SOIL)

Received Date: 5/17/2013 10:03:00 AM

| Analyses                                       | Result | RL     | Qual | Units | DF | Date Analyzed        | Batch               |
|--|--------|--------|------|-------|----|----------------------|---------------------|
| <b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    |                      | Analyst: <b>JME</b> |
| Diesel Range Organics (DRO)                    | 100    | 10     |      | mg/Kg | 1  | 5/17/2013 6:25:01 PM | 7492                |
| Surr: DNOP                                     | 112    | 63-147 |      | %REC  | 1  | 5/17/2013 6:25:01 PM | 7492                |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>        |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Gasoline Range Organics (GRO)                  | 790    | 20     |      | mg/Kg | 4  | 5/17/2013 3:05:58 PM | R10713              |
| Surr: BFB                                      | 1720   | 80-120 | S    | %REC  | 4  | 5/17/2013 3:05:58 PM | R10713              |
| <b>EPA METHOD 8021B: VOLATILES</b>             |        |        |      |       |    |                      | Analyst: <b>NSB</b> |
| Benzene  | 0.34   | 0.20   |      | mg/Kg | 4  | 5/17/2013 3:05:58 PM | R10713              |
| Toluene  | ND     | 0.20   |      | mg/Kg | 4  | 5/17/2013 3:05:58 PM | R10713              |
| Ethylbenzene                                   | ND     | 0.20   |      | mg/Kg | 4  | 5/17/2013 3:05:58 PM | R10713              |
| Xylenes, Total                                 | 9.4    | 0.40   |      | mg/Kg | 4  | 5/17/2013 3:05:58 PM | R10713              |
| Surr: 4-Bromofluorobenzene                     | 172    | 80-120 | S    | %REC  | 4  | 5/17/2013 3:05:58 PM | R10713              |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

|                    |    |  |    |  |
|--------------------|----|--|----|--|
| <b>Qualifiers:</b> | *  | Value exceeds Maximum Contaminant Level.       | B  | Analyte detected in the associated Method Blank    |
|                    | E  | Value above quantitation range                 | H  | Holding times for preparation or analysis exceeded |
|                    | J  | Analyte detected below quantitation limits     | ND | Not Detected at the Reporting Limit                |
|                    | P  | Sample pH greater than 2 for VOA and TOC only. | R  | RPD outside accepted recovery-limits               |
|                    | RL | Reporting Detection Limit                      | S  | Spike Recovery outside accepted recovery limits    |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1305710

21-May-13

**Client:** Blagg Engineering  
**Project:** Valencia GC B #1M

|                             |                                 |     |  |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB-7492</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>7492</b>           |     | RunNo: <b>10707</b>                                      |             |                     |          |           |      |          |      |
| Prep Date: <b>5/17/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>302574</b>                                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND                              | 10  |  |             |                     |          |           |      |          |      |
| Surr: DNOP                  | 8.7                             |     | 10.00  |             | 86.9                | 63       | 147       |      |          |      |

|                             |                                 |     |  |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-7492</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Diesel Range Organics</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>7492</b>           |     | RunNo: <b>10707</b>                                      |             |                     |          |           |      |          |      |
| Prep Date: <b>5/17/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>302643</b>                                     |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value  | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52                              | 10  | 50.00  | 0           | 104                 | 77.1     | 128       |      |          |      |
| Surr: DNOP                  | 4.8                             |     | 5.000  |             | 96.4                | 63       | 147       |      |          |      |

|                             |                                 |     |  |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB-7474</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>7474</b>           |     | RunNo: <b>10701</b>                                      |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303158</b>                                     |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value  | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |     | 10.00  |             | 108                | 63       | 147       |      |          |      |

|                             |                                 |     |  |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-7474</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Diesel Range Organics</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>7474</b>           |     | RunNo: <b>10701</b>                                      |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303159</b>                                     |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value  | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.1                             |     | 5.000  |             | 102                | 63       | 147       |      |          |      |

**Qualifiers:**

- |  |  |
|--|--|
| * Value exceeds Maximum Contaminant Level.       | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range                 | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits     | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2 for VOA and TOC only. | R RPD outside accepted recovery limits               |
| RL Reporting Detection Limit                     | S Spike Recovery outside accepted recovery limits    |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1305710

21-May-13

**Client:** Blagg Engineering  
**Project:** Valencia GC B #1M

|                               |                                 |     |   |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB-7477</b>      | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
| Client ID: <b>PBS</b>         | Batch ID: <b>R10713</b>         |     | RunNo: <b>10713</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b>   | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303069</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |   |             |                     |          |           |      |          |      |
| Surr: BFB                     | 940                             |     | 1000  |             | 94.3                | 80       | 120       |      |          |      |

|                               |                                 |     |   |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---|-------------|---------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-7477</b>     | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
| Client ID: <b>LCSS</b>        | Batch ID: <b>R10713</b>         |     | RunNo: <b>10713</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b>   | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303070</b>                              |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value   | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 29                              | 5.0 | 25.00   | 0           | 117                 | 62.6     | 136       |      |          |      |
| Surr: BFB                     | 1100                            |     | 1000  |             | 112                 | 80       | 120       |      |          |      |

|                             |                                 |     |   |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB-7477</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>7477</b>           |     | RunNo: <b>10713</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303086</b>                              |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value   | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 940                             |     | 1000  |             | 94.3               | 80       | 120       |      |          |      |

|                             |                                 |     |   |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-7477</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>7477</b>           |     | RunNo: <b>10713</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303087</b>                              |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value   | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1100                            |     | 1000  |             | 112                | 80       | 120       |      |          |      |

|                             |                                 |     |   |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>MB-7482</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>7482</b>           |     | RunNo: <b>10713</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303115</b>                              |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value   | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 950                             |     | 1000  |             | 94.7               | 80       | 120       |      |          |      |

|                             |                                 |     |   |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---|-------------|--------------------|----------|-----------|------|----------|------|
| Sample ID <b>LCS-7482</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                    |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>7482</b>           |     | RunNo: <b>10713</b>                               |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303116</b>                              |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value   | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1000                            |     | 1000  |             | 101                | 80       | 120       |      |          |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305710

21-May-13

**Client:** Blagg Engineering  
**Project:** Valencia GC B #1M

| Sample ID <b>MB-7482</b>      | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>R10713</b>         | RunNo: <b>10713</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b>   | Analysis Date: <b>5/17/2013</b> | SeqNo: <b>303122</b>                              | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0   |                     |             |      |          |           |      |          |      |
| Surr: BFB                     | 950                             |   | 1000                |             | 94.7 | 80       | 120       |      |          |      |

| Sample ID <b>LCS-7482</b>     | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |                     |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>R10713</b>         | RunNo: <b>10713</b>                               |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b>   | Analysis Date: <b>5/17/2013</b> | SeqNo: <b>303123</b>                              | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL   | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27                              | 5.0   | 25.00               | 0           | 107  | 62.6     | 136       |      |          |      |
| Surr: BFB                     | 1000                            |   | 1000                |             | 101  | 80       | 120       |      |          |      |

## Qualifiers:

- |  |  |
|--|--|
| * Value exceeds Maximum Contaminant Level.       | B Analyte detected in the associated Method Blank    |
| E Value above quantitation range                 | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits     | ND Not Detected at the Reporting Limit               |
| P Sample pH greater than 2 for VOA and TOC only. | R RPD outside accepted recovery limits               |
| RL Reporting Detection Limit                     | S Spike Recovery outside accepted recovery limits    |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1305710

21-May-13

**Client:** Blagg Engineering  
**Project:** Valencia GC B #IM

| Sample ID <b>MB-7477</b>    | SampType: <b>MBLK</b>           |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>R10713</b>         |       | RunNo: <b>10713</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |       | SeqNo: <b>303133</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Toluene                     | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Ethylbenzene                | ND                              | 0.050 |  |             |                     |          |           |      |          |      |
| Xylenes, Total              | ND                              | 0.10  |  |             |                     |          |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                             |       | 1.000  |             | 101                 | 80       | 120       |      |          |      |

| Sample ID <b>LCS-7477</b>   | SampType: <b>LCS</b>            |       | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-------|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>R10713</b>         |       | RunNo: <b>10713</b>                          |             |                     |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |       | SeqNo: <b>303134</b>                         |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value                                    | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.1                             | 0.050 | 1.000  | 0           | 111                 | 80       | 120       |      |          |      |
| Toluene                     | 1.1                             | 0.050 | 1.000  | 0           | 110                 | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050 | 1.000  | 0           | 111                 | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.3                             | 0.10  | 3.000  | 0           | 110                 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                             |       | 1.000  |             | 106                 | 80       | 120       |      |          |      |

| Sample ID <b>MB-7477</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>7477</b>           |     | RunNo: <b>10713</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303146</b>                         |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 1.0                             |     | 1.000  |             | 101                | 80       | 120       |      |          |      |

| Sample ID <b>LCS-7477</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8021B: Volatiles</b> |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|--|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>7477</b>           |     | RunNo: <b>10713</b>                          |             |                    |          |           |      |          |      |
| Prep Date: <b>5/16/2013</b> | Analysis Date: <b>5/17/2013</b> |     | SeqNo: <b>303147</b>                         |             | Units: <b>%REC</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                    | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 1.1                             |     | 1.000  |             | 106                | 80       | 120       |      |          |      |

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits



Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87105  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1305710**

RcptNo: **1**

Received by/date:

*AG*

*05/17/13*

Logged By: **Michelle Garcia**

**5/17/2013 10:03:00 AM**

*Michelle Garcia*

Completed By: **Michelle Garcia**

**5/17/2013 10:06:15 AM**

*Michelle Garcia*

Reviewed By:

*[Signature]*

*05/17/13*

**Chain of Custody**

- 1. Custody seals intact on sample bottles? Yes  No  Not Present
- 2. Is Chain of Custody complete? Yes  No  Not Present
- 3. How was the sample delivered? Courier

**Log In**

- 4. Was an attempt made to cool the samples? Yes  No  NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes  No  NA
- 6. Sample(s) in proper container(s)? Yes  No
- 7. Sufficient sample volume for indicated test(s)? Yes  No
- 8. Are samples (except VOA and ONG) properly preserved? Yes  No
- 9. Was preservative added to bottles? Yes  No  NA
- 10. VOA vials have zero headspace? Yes  No  No VOA Vials
- 11. Were any sample containers received broken? Yes  No
- 12. Does paperwork match bottle labels? Yes  No  # of preserved bottles checked for pH: ( <2 or >12 unless noted)
- 13. Are matrices correctly identified on Chain of Custody? Yes  No  Adjusted?
- 14. Is it clear what analyses were requested? Yes  No
- 15. Were all holding times able to be met? Yes  No  Checked by:
- (If no, notify customer for authorization.)

**Special Handling (if applicable)**

- 16. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
 By Whom: \_\_\_\_\_ Via:  eMail  Phone  Fax  In Person  
 Regarding: \_\_\_\_\_  
 Client Instructions: \_\_\_\_\_

17. Additional remarks:

**18. Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.6     | Good      | Not Present |         |           |           |