

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

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: Chavez Gas Com A 1A | Facility Type: Natural gas well |

| | | |
|------------------------|------------------------|--------------------|
| Surface Owner: Federal | Mineral Owner: Federal | API No. 3004522302 |
|------------------------|------------------------|--------------------|

LOCATION OF RELEASE

| | | | | | | | | |
|------------------|--------------|-----------------|-------------|----------------------|---------------------------|----------------------|------------------------|------------------|
| Unit Letter P | Section 3 | Township 29N | Range 9W | Feet from the 800 | North/South Line South | Feet from the 795 | East/West Line East | County: San Juan |
|------------------|--------------|-----------------|-------------|----------------------|---------------------------|----------------------|------------------------|------------------|

Latitude 36.74846 Longitude 107.76016

NATURE OF RELEASE

| | | |
|--|---|---|
| Type of Release: condensate/oil | Volume of Release: 21 bbl condensate, 5 bbl produce water | Volume Recovered: none |
| Source of Release: water drain valve on condensate tank | Date and Hour of Occurrence: unknown, assume 1/11/2014 | Date and Hour of Discovery: January 12, 2014; 8:04 AM |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Jonathan Kelly | |
| By Whom? Jeff Peace | Date and Hour January 13, 2014; 8:38 AM | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |

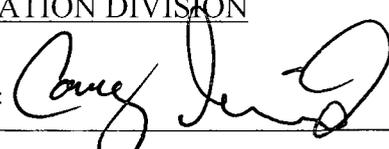
If a Watercourse was Impacted, Describe Fully.*

OIL CONS. DIV DIST. 3
AUG 07 2014

Describe Cause of Problem and Remedial Action Taken.* SSS gauger found the water drain valve on the condensate tank had frozen and broken the seal, allowing the contents of the tank to drain to the below grade tank (BGT). The volumes was sufficient to overflow the BGT, allowing 21 bbl of condensate and 5 bbl of water to impact the surface. All of the released material remained within the bermed containment area and the remaining fluid in the BGT was removed.

Describe Area Affected and Cleanup Action Taken.* The BGT was removed and the impacted soil was removed to the sandstone bedrock. The remaining soil on top of the sandstone was treated with hydrogen peroxide. Subsequent analyses of the remaining soil on the sandstone showed TPH levels below the applicable standard. The excavated area was backfilled with clean soil and compacted.

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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Jeff Peace | Approved by Environmental Specialist:  | |
| Title: Area Environmental Advisor | Approval Date: <u>9/8/14</u> | Expiration Date: |
| E-mail Address: peace.jeffrey@bp.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: August 6, 2014 | Phone: 505-326-9479 | |

* Attach Additional Sheets If Necessary

#MS 1425137836

34

BP America
Chavez GC A 1A
(P) Sec 3 – T29N – R9W
San Juan County, New Mexico

Spill Release Remediation Summary

| | |
|----------------|--|
| Jan 12, 2014 | Release from 300 bbl stock tank discovered from failed frozen valve on stock tank. Contents drained into 95 bbl BGT which overflowed and impacted soils surrounding BGT with approximately 21 bbl condensate and 5 bbl water. Release contained within perimeter berm. |
| Jan 27, 2014 | Initial investigation with hand auger determined dense sandstone at about 1 foot below grade in impacted area. Below grade tank installed in hole excavated out of this sandstone. All soil impacts contained within berm. Determine site closure standard pursuant to BLM and NMOCD Spill & Release Guidelines to be 5,000 ppm TPH. |
| Feb 5, 2014 | Sample of impacts at surface of sandstone collected with 5 point composite using hand auger for laboratory testing of TPH, BTEX and Chlorides. Lab test results indicate TPH = 9,980 ppm. Chlorides = 18 ppm, qualifying soils to enter Crouch Mesa Landfarm. |
| April 10, 2014 | Excavation remediation team on site to plan excavation and removal of impacts. |
| April 14, 2014 | Begin Excavation. |
| April 15, 2014 | Collect soil sample at sandstone surface, between visible impacts and 300 bbl stock tank, to confirm north-east limit of impacts. Lab TPH = 20 ppm. |
| April 24, 2014 | Excavation of impacts complete. Approximately 36 cubic yards of soil removed and transported to Crouch Mesa Landfarm. Apply 8 Gallons hydrogen peroxide to sandstone surface (4 gallons in exposed BGT hole and 4 gallons on surface between BGT and 300 bbl tank) |
| April 30, 2014 | Sample perimeter edge of remedial area sandstone surface (4-point composite) and 6-point composite of sandstone surface within remediation central area. TPH of perimeter sample = 0.0 ppm, TPH of central area = 1,300 ppm. Leave excavation open and exposed to sun and wind (fenced off) |

May 16, 2014

Re-sample of perimeter edge and central area to determine effects of hydrogen peroxide, sun and wind to accelerate remediation. TPH of perimeter sample = 0.0 ppm, TPH of central area = 150 ppm.

Chavez GC A 1A

300 bbl Stocktank

Impacted Area

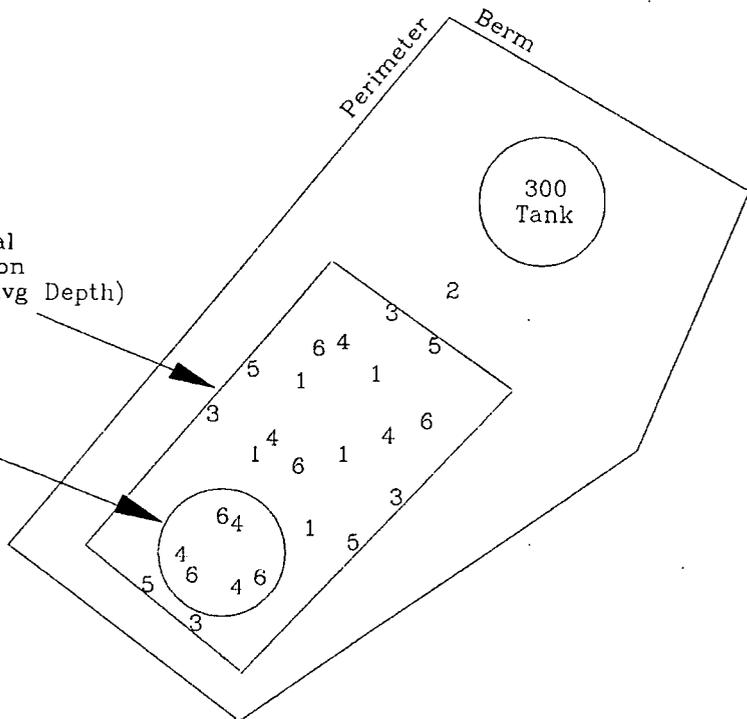
Excavated Area
(40'x20'x1' avg depth)

95 bbl BGT



Remedial
Excavation
(40'x 20' x 1' Avg Depth)

95
BGT
(Temporarily
Removed
for
Remediation)



| Sample ID | Date | Description | TPH |
|-----------|-----------|---------------------|----------------------------------|
| 1 | 2/5/2014 | Impacted SS Surface | 9,980ppm (excavated and removed) |
| 2 | 4/15/2014 | 300 Tank | 20ppm |
| 3 | 4/30/2014 | Perimeter 4-pt | 0.0ppm |
| 4 | 4/30/2014 | Excavation 6-pt | 1,300ppm |
| 5 | 5/16/2014 | Perimeter 4-pt | 0.0ppm |
| 6 | 5/16/2014 | Excavation 6-pt | 150ppm |

LEGEND

N ↑

7 Sample Location

0 ——— 20 ——— 40 Feet

Excavation Sampling Diagram
BP ** Chavez GC A 1A ** (P)Sec 3-T29N-R9W

BLAGG ENGINEERING, INC.

DATE: 8/2014

FIGURE A

BY: JCB

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

Analytical Report

Lab Order 1402292

Date Reported: 2/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Tank Release 5-pt Comp at 10-in

Project: Chavez GC A 1A

Collection Date: 2/5/2014 3:15:00 PM

Lab ID: 1402292-001

Matrix: SOIL

Received Date: 2/7/2014 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|-----|-----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 980 | 99 | | mg/Kg | 10 | 2/11/2014 3:18:53 PM | 11640 |
| Surr: DNOP | 0 | 66-131 | S | %REC | 10 | 2/11/2014 3:18:53 PM | 11640 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 9000 | 500 | | mg/Kg | 100 | 2/11/2014 4:50:42 PM | 11645 |
| Surr: BFB | 193 | 74.5-129 | S | %REC | 100 | 2/11/2014 4:50:42 PM | 11645 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | 15 | 5.0 | | mg/Kg | 100 | 2/12/2014 4:23:02 PM | 11645 |
| Toluene | 270 | 5.0 | | mg/Kg | 100 | 2/12/2014 4:23:02 PM | 11645 |
| Ethylbenzene | 51 | 5.0 | | mg/Kg | 100 | 2/12/2014 4:23:02 PM | 11645 |
| Xylenes, Total | 430 | 10 | | mg/Kg | 100 | 2/12/2014 4:23:02 PM | 11645 |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %REC | 100 | 2/12/2014 4:23:02 PM | 11645 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 18 | 15 | | mg/Kg | 10 | 2/11/2014 12:46:05 PM | 11674 |

Note: Pre-Remediation Sandstone Surface Condition-J Blagg

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. |
| | 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#: 1402292

17-Feb-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | MB-11674 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 11674 | RunNo: | 16693 | | | | | |
| Prep Date: | 2/11/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 480533 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---------------------------------|----------|--------------|------|----------|------|
| Sample ID | LCS-11674 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 11674 | RunNo: | 16693 | | | | | |
| Prep Date: | 2/11/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 480534 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.9 | 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#: 1402292

17-Feb-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-11640 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 11640 | RunNo: | 16651 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 479862 | 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 | 8.9 | | 10.00 | | 89.0 | 66 | 131 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-11640 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 11640 | RunNo: | 16651 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 479863 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 96.4 | 60.8 | 145 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.4 | 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.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402292

17-Feb-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-11645 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 11645 | RunNo: | 16689 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 480351 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 900 | | 1000 | | 90.4 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|-------------------------------|-----------|----------------|-----------|-------------|----------------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-11645 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 11645 | RunNo: | 16689 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/11/2014 | SeqNo: | 480352 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 89.4 | 74.5 | 126 | | | |
| Surr: BFB | 1000 | | 1000 | | 101 | 74.5 | 129 | | | |

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#: 1402292

17-Feb-14

Client: Blagg Engineering

Project: Chavez GC A IA

| | | | | | | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-11645 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 11645 | RunNo: | 16721 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/12/2014 | SeqNo: | 481216 | Units: | mg/Kg | | | |
| 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 | LCS-11645 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 11645 | RunNo: | 16721 | | | | | |
| Prep Date: | 2/10/2014 | Analysis Date: | 2/12/2014 | SeqNo: | 481217 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.050 | 1.000 | 0 | 90.9 | 80 | 120 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 90.1 | 80 | 120 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 91.1 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 94.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.83 | | 1.000 | | 82.6 | 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



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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1402292**

RcptNo: **1**

Received by/date: *AG* *02/07/14*

Logged By: **Ashley Gallegos** **2/7/2014 10:30:00 AM** *AG*

Completed By: **Ashley Gallegos** **2/7/2014 3:57:43 PM** *AG*

Reviewed By: *AK 02/10/14*

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: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

Cooler Information

| Cooler No. | Temp °C | Condition | Seal Intact | Seal No. | Seal Date | Signed By |
|------------|---------|-----------|-------------|----------|-----------|-----------|
| 1 | 1.6 | Good | Yes | | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 300 Tank @ 24-Inches

Project: Chavez GC A 1A

Collection Date: 4/15/2014 11:50:00 AM

Lab ID: 1404821-001

Matrix: SOIL

Received Date: 4/17/2014 10:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|--------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: JME |
| Diesel Range Organics (DRO) | 20 | 9.8 | | mg/Kg | 1 | 4/21/2014 4:39:08 PM | 12758 |
| Surr: DNOP | 134 | 57.9-140 | | %REC | 1 | 4/21/2014 4:39:08 PM | 12758 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 4/19/2014 4:29:23 AM | 12765 |
| Surr: BFB | 88.7 | 74.5-129 | | %REC | 1 | 4/19/2014 4:29:23 AM | 12765 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: RAA |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 4/19/2014 4:29:23 AM | 12765 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 4/19/2014 4:29:23 AM | 12765 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 4/19/2014 4:29:23 AM | 12765 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 4/19/2014 4:29:23 AM | 12765 |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %REC | 1 | 4/19/2014 4:29:23 AM | 12765 |

Note: Sample between remedial area and 300 tank
to confirm tank removal not required - J Blagg

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. |
| | 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#: 1404821
23-Apr-14

Client: Blagg Engineering
Project: Chavez GC A 1A

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | MB-12758 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 12758 | RunNo: | 18068 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 521273 | 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 | 10 | | 10.00 | | 102 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|------------------|----------------|------------------|-------------|--|----------|--------------|------|----------|------|
| Sample ID | LCS-12758 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 12758 | RunNo: | 18068 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 521275 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 91.4 | 60.8 | 145 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.6 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | MB-12781 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 12781 | RunNo: | 18068 | | | | | |
| Prep Date: | 4/18/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 521276 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.6 | | 10.00 | | 96.0 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|--|----------|-------------|------|----------|------|
| Sample ID | LCS-12781 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 12781 | RunNo: | 18068 | | | | | |
| Prep Date: | 4/18/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 521898 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.6 | | 5.000 | | 91.5 | 57.9 | 140 | | | |

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#: 1404821

23-Apr-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|------------|--------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-12765 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R18084 | RunNo: | 18084 | | | | | |
| Prep Date: | | Analysis Date: | 4/18/2014 | SeqNo: | 522566 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 860 | | 1000 | | 85.6 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|------------|---------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-12765 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R18084 | RunNo: | 18084 | | | | | |
| Prep Date: | | Analysis Date: | 4/18/2014 | SeqNo: | 522567 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 910 | | 1000 | | 91.5 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-12765 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 12765 | RunNo: | 18084 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 522600 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 860 | | 1000 | | 85.6 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-12765 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 12765 | RunNo: | 18084 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 522601 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 97.9 | 71.7 | 134 | | | |
| Surr: BFB | 910 | | 1000 | | 91.5 | 74.5 | 129 | | | |

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. |
| 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#: 1404821

23-Apr-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-12765 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | PBS | Batch ID: | 12765 | RunNo: | 18084 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 522634 | Units: | mg/Kg | | | |
| 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 | | 102 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-----------|----------------|-----------|-------------|-----------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-12765 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
| Client ID: | LCSS | Batch ID: | 12765 | RunNo: | 18084 | | | | | |
| Prep Date: | 4/17/2014 | Analysis Date: | 4/18/2014 | SeqNo: | 522635 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 103 | 80 | 120 | | | |
| 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
- 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: **1404821**

RcptNo: 1

Received by/date:

[Signature]

04/17/14

Logged By: **Ashley Gallegos**

[Signature]

4/17/2014 10:10:00 AM

[Signature]

Completed By: **Ashley Gallegos**

4/17/2014 12:09:09 PM

[Signature]

Reviewed By:

CS

04/17/14

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 ✓ # of preserved bottles checked for pH: (<2 or >12 unless noted)
- 12. Does paperwork match bottle labels? Yes ✓ No Adjusted?
- (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 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 | 1.0 | Good | Yes | | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Perimeter 4-pt @ 2'

Project: Chavez GC A 1A

Collection Date: 4/30/2014 7:30:00 AM

Lab ID: 1405038-001

Matrix: SOIL

Received Date: 5/1/2014 10:03:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 10 | | mg/Kg | 1 | 5/5/2014 11:10:19 AM | 12982 |
| Surr: DNOP | 96.7 | 57.9-140 | | %REC | 1 | 5/5/2014 11:10:19 AM | 12982 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 5/2/2014 11:56:20 PM | 12961 |
| Surr: BFB | 87.0 | 74.5-129 | | %REC | 1 | 5/2/2014 11:56:20 PM | 12961 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 5/2/2014 11:56:20 PM | 12961 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 5/2/2014 11:56:20 PM | 12961 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 5/2/2014 11:56:20 PM | 12961 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 5/2/2014 11:56:20 PM | 12961 |
| Surr: 4-Bromofluorobenzene | 96.5 | 80-120 | | %REC | 1 | 5/2/2014 11:56:20 PM | 12961 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 36 | 30 | | mg/Kg | 20 | 5/2/2014 2:36:18 PM | 12983 |

Note: Post Remediation - J Blagg

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. |
| | 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:** Excavation 6-pt Comp**Project:** Chavez GC A 1A**Collection Date:** 4/30/2014 7:45:00 AM**Lab ID:** 1405038-002**Matrix:** SOIL**Received Date:** 5/1/2014 10:03:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 1300 | 99 | | mg/Kg | 10 | 5/6/2014 10:35:25 AM | 12982 |
| Surr: DNOP | 0 | 57.9-140 | S | %REC | 10 | 5/6/2014 10:35:25 AM | 12982 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 25 | | mg/Kg | 5 | 5/5/2014 10:16:02 PM | 12961 |
| Surr: BFB | 89.9 | 74.5-129 | | %REC | 5 | 5/5/2014 10:16:02 PM | 12961 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 5/5/2014 10:16:02 PM | 12961 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 5/5/2014 10:16:02 PM | 12961 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 5/5/2014 10:16:02 PM | 12961 |
| Xylenes, Total | ND | 0.49 | | mg/Kg | 5 | 5/5/2014 10:16:02 PM | 12961 |
| Surr: 4-Bromofluorobenzene | 98.9 | 80-120 | | %REC | 5 | 5/5/2014 10:16:02 PM | 12961 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 53 | 30 | | mg/Kg | 20 | 5/2/2014 4:03:14 PM | 12983 |

Note: Post Remediation - J Blagg

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. |
| | 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#: 1405038

07-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|------------|----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-12983 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 12983 | RunNo: | 18386 | | | | | |
| Prep Date: | 5/2/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530932 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-12983 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 12983 | RunNo: | 18386 | | | | | |
| Prep Date: | 5/2/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530933 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 90.9 | 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#: 1405038

07-May-14

Client: Blagg Engineering
Project: Chavez GC A 1A

| Sample ID MB-12982 | SampType: MBLK | | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: PBS | Batch ID: 12982 | | RunNo: 18356 | | | | | | | |
| Prep Date: 5/2/2014 | Analysis Date: 5/2/2014 | | SeqNo: 530268 | | 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 | 8.4 | | 10.00 | | 84.4 | 57.9 | 140 | | | |

| Sample ID LCS-12982 | SampType: LCS | | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batch ID: 12982 | | RunNo: 18356 | | | | | | | |
| Prep Date: 5/2/2014 | Analysis Date: 5/2/2014 | | SeqNo: 530310 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 97.9 | 60.8 | 145 | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.8 | 57.9 | 140 | | | |

| Sample ID 1405038-001AMS | SampType: MS | | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | |
|---------------------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Perimeter 4-pt @ 2' | Batch ID: 12982 | | RunNo: 18372 | | | | | | | |
| Prep Date: 5/2/2014 | Analysis Date: 5/5/2014 | | SeqNo: 530825 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 63 | 9.9 | 49.50 | 0 | 128 | 40.1 | 152 | | | |
| Surr: DNOP | 5.2 | | 4.950 | | 105 | 57.9 | 140 | | | |

| Sample ID 1405038-001AMSD | SampType: MSD | | TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | |
|---------------------------------------|--------------------------------|-----|--|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: Perimeter 4-pt @ 2' | Batch ID: 12982 | | RunNo: 18372 | | | | | | | |
| Prep Date: 5/2/2014 | Analysis Date: 5/5/2014 | | SeqNo: 531060 | | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 38 | 10 | 49.80 | 0 | 76.4 | 40.1 | 152 | 49.6 | 32.1 | R |
| Surr: DNOP | 4.7 | | 4.980 | | 94.4 | 57.9 | 140 | 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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405038

07-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|------------|-----------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-12961 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 12961 | RunNo: | 18363 | | | | | |
| Prep Date: | 5/1/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530504 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-------------------------------|-----|-----|------|--|------|------|-----|--|--|--|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 840 | | 1000 | | 84.0 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|-----------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-12961 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 12961 | RunNo: | 18363 | | | | | |
| Prep Date: | 5/1/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530505 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-------------------------------|-----|-----|-------|---|------|------|-----|--|--|--|
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 99.3 | 71.7 | 134 | | | |
| Surr: BFB | 920 | | 1000 | | 91.9 | 74.5 | 129 | | | |

| | | | | | | | | | | |
|------------|--------------------|----------------|-----------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-12990 MK | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | R18376 | RunNo: | 18376 | | | | | |
| Prep Date: | | Analysis Date: | 5/5/2014 | SeqNo: | 531630 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------|-----|--|------|--|------|------|-----|--|--|--|
| Surr: BFB | 840 | | 1000 | | 84.2 | 74.5 | 129 | | | |
|-----------|-----|--|------|--|------|------|-----|--|--|--|

| | | | | | | | | | | |
|------------|---------------------|----------------|-----------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-12990 MK | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | R18376 | RunNo: | 18376 | | | | | |
| Prep Date: | | Analysis Date: | 5/5/2014 | SeqNo: | 531635 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

| | | | | | | | | | | |
|-----------|-----|--|------|--|------|------|-----|--|--|--|
| Surr: BFB | 930 | | 1000 | | 92.6 | 74.5 | 129 | | | |
|-----------|-----|--|------|--|------|------|-----|--|--|--|

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#: 1405038

07-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| Sample ID | MB-12961 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 12961 | RunNo: | 18363 | | | | | |
| Prep Date: | 5/1/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530547 | Units: | mg/Kg | | | |
| 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 | 0.99 | | 1.000 | | 98.9 | 80 | 120 | | | |

| Sample ID | LCS-12961 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|-----------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 12961 | RunNo: | 18363 | | | | | |
| Prep Date: | 5/1/2014 | Analysis Date: | 5/2/2014 | SeqNo: | 530548 | Units: | mg/Kg | | | |
| 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 | 1.0 | 0.050 | 1.000 | 0 | 104 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 102 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 102 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 106 | 80 | 120 | | | |

| Sample ID | MB-12990 MK | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|--------------------|----------------|-----------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | PBS | Batch ID: | R18376 | RunNo: | 18376 | | | | | |
| Prep Date: | | Analysis Date: | 5/5/2014 | SeqNo: | 531665 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.1 | 80 | 120 | | | |

| Sample ID | 100NG BTEX LCS | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-----------------------|----------------|-----------------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | R18376 | RunNo: | 18376 | | | | | |
| Prep Date: | | Analysis Date: | 5/5/2014 | SeqNo: | 531666 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 1.1 | | 1.000 | | 108 | 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



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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1405038**

RcptNo: 1

Received by/date: CS 05/01/14

Logged By: **Celina Sessa** **5/1/2014 10:03:00 AM**

Completed By: **Celina Sessa** **5/1/2014 1:21:13 PM**

Reviewed By: mg 05/01/14

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? 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 | 2.2 | Good | Yes | | | |

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Perimeter Wall 4-pt Comp

Project: Chavez GC A 1A

Collection Date: 5/16/2014 11:20:00 AM

Lab ID: 1405975-001

Matrix: SOIL

Received Date: 5/22/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | ND | 9.9 | | mg/Kg | 1 | 5/23/2014 5:26:44 PM | 13321 |
| Surr: DNOP | 98.9 | 57.9-140 | | %REC | 1 | 5/23/2014 5:26:44 PM | 13321 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 5/23/2014 6:49:03 PM | 13319 |
| Surr: BFB | 82.6 | 80-120 | | %REC | 1 | 5/23/2014 6:49:03 PM | 13319 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.049 | | mg/Kg | 1 | 5/23/2014 6:49:03 PM | 13319 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 5/23/2014 6:49:03 PM | 13319 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 5/23/2014 6:49:03 PM | 13319 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 5/23/2014 6:49:03 PM | 13319 |
| Surr: 4-Bromofluorobenzene | 95.5 | 80-120 | | %REC | 1 | 5/23/2014 6:49:03 PM | 13319 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | ND | 30 | | mg/Kg | 20 | 5/23/2014 4:30:29 PM | 13335 |

Note: Post Remediation, after additional exposure to H2O2 treatment, wind and sun - J Blagg

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. |
| | 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: Excavation Base 6-pt Comp

Project: Chavez GC A 1A

Collection Date: 5/16/2014 11:40:00 AM

Lab ID: 1405975-002

Matrix: SOIL

Received Date: 5/22/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|--------|----------|------|-------|----|----------------------|---------------------|
| EPA METHOD 8015D: DIESEL RANGE ORGANICS | | | | | | | Analyst: BCN |
| Diesel Range Organics (DRO) | 150 | 9.9 | | mg/Kg | 1 | 5/23/2014 5:56:44 PM | 13321 |
| Surr: DNOP | 72.3 | 57.9-140 | | %REC | 1 | 5/23/2014 5:56:44 PM | 13321 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 5/23/2014 7:17:38 PM | 13319 |
| Surr: BFB | 81.7 | 80-120 | | %REC | 1 | 5/23/2014 7:17:38 PM | 13319 |
| EPA METHOD 8021B: VOLATILES | | | | | | | Analyst: NSB |
| Benzene | ND | 0.046 | | mg/Kg | 1 | 5/23/2014 7:17:38 PM | 13319 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 5/23/2014 7:17:38 PM | 13319 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 5/23/2014 7:17:38 PM | 13319 |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 5/23/2014 7:17:38 PM | 13319 |
| Surr: 4-Bromofluorobenzene | 95.1 | 80-120 | | %REC | 1 | 5/23/2014 7:17:38 PM | 13319 |
| EPA METHOD 300.0: ANIONS | | | | | | | Analyst: JRR |
| Chloride | 180 | 30 | | mg/Kg | 20 | 5/23/2014 4:55:18 PM | 13335 |

Note: Post Remediation after additional exposure to H2O2, wind and sun - J Blagg

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. |
| | 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#: 1405975

27-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-13335 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 13335 | RunNo: | 18847 | | | | | |
| Prep Date: | 5/23/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 544228 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-13335 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 13335 | RunNo: | 18847 | | | | | |
| Prep Date: | 5/23/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 544229 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.2 | 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#: 1405975

27-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | MB-13321 | SampType: | MBLK | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | PBS | Batch ID: | 13321 | RunNo: | 18820 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543460 | 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 | 9.5 | | 10.00 | | 95.1 | 57.9 | 140 | | | |

| | | | | | | | | | | |
|-----------------------------|-----------|----------------|-----------|-------------|---|----------|-----------|------|----------|------|
| Sample ID | LCS-13321 | SampType: | LCS | TestCode: | EPA Method 8015D: Diesel Range Organics | | | | | |
| Client ID: | LCSS | Batch ID: | 13321 | RunNo: | 18820 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543509 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.6 | 60.8 | 145 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.3 | 57.9 | 140 | | | |

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. |
| 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#: 1405975

27-May-14

Client: Blagg Engineering
Project: Chavez GC A 1A

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | MB-13319 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 13319 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543975 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 810 | | 1000 | | 81.3 | 80 | 120 | | | |

| | | | | | | | | | | |
|-------------------------------|------------------|----------------|------------------|-------------|---|----------|--------------|------|----------|------|
| Sample ID | LCS-13319 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 13319 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543976 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 | 5.0 | 25.00 | 0 | 80.0 | 71.7 | 134 | | | |
| Surr: BFB | 890 | | 1000 | | 88.7 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | MB-13327 | SampType: | MBLK | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | PBS | Batch ID: | 13327 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543996 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 850 | | 1000 | | 84.5 | 80 | 120 | | | |

| | | | | | | | | | | |
|------------|------------------|----------------|------------------|-------------|---|----------|-------------|------|----------|------|
| Sample ID | LCS-13327 | SampType: | LCS | TestCode: | EPA Method 8015D: Gasoline Range | | | | | |
| Client ID: | LCSS | Batch ID: | 13327 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 543997 | Units: | %REC | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 900 | | 1000 | | 90.3 | 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405975

27-May-14

Client: Blagg Engineering

Project: Chavez GC A 1A

| Sample ID | MB-13319 | SampType: | MBLK | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | PBS | Batch ID: | 13319 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 544018 | Units: | mg/Kg | | | |
| 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 | 0.95 | | 1.000 | | 94.8 | 80 | 120 | | | |

| Sample ID | LCS-13319 | SampType: | LCS | TestCode: | EPA Method 8021B: Volatiles | | | | | |
|----------------------------|------------------|----------------|------------------|-------------|------------------------------------|----------|--------------|------|----------|------|
| Client ID: | LCSS | Batch ID: | 13319 | RunNo: | 18829 | | | | | |
| Prep Date: | 5/22/2014 | Analysis Date: | 5/23/2014 | SeqNo: | 544019 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 99.5 | 80 | 120 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 99.1 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 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: 1405975

RcptNo: 1

| | | |
|-------------------|--------------------|-----------------------|
| Received by/date: | <i>[Signature]</i> | <i>[Signature]</i> |
| Logged By: | Lindsay Mangin | 5/22/2014 10:00:00 AM |
| Completed By: | Lindsay Mangin | 5/22/2014 1:07:36 PM |
| Reviewed By: | CS | 05/22/14 |

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? Client

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
(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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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 | 1.1 | Good | Not Present | | | |

