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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

NMOCD

Release Notification

JAN 17 2019

Responsible Party

| Kesponsi | DISTRIC | TIII |
|--|-----------------------------------|--------------|
| Responsible Party: BP America Production Co. | OGRID: 778 | Final Report |
| Contact Name: Steve Moskal | Contact Telephone: (505) 330-9179 | |
| Contact email: steven.moskal@bpx.com | Incident # (assigned by OCD) | |
| Contact mailing address: 1199 Main Ave. Suite 101, Durango CO, 81301 NVF1826734170 | | |

Location of Release Source

Latitude: 36.68034°

Longitude: -108.14487° (NAD 83 in decimal degrees to 5 decimal places)

| Site Name: Gallegos Canyon Unit 210 | Site Type: Natural Gas Production Well (Abandoned) |
|--|--|
| Date Release Discovered: June 25, 2018 | API#: 30-045-11648 |

| Unit Letter | Section | Township | Range | County | |
|-------------|---------|----------|-------|----------|--|
| L | 31 | T29N | R12W | San Juan | |

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

| Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
|------------------|--|---|
| Produced Water | Volume Released (bbls): unknown | Volume Recovered (bbls): 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | Yes No |
| Condensate | Volume Released (bbls): | Volume Recovered (bbls): |
| Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release:

BGT closure sampling indicated soil impacts. The BGT removed for closure and the impacted area remediated to NMAC 19.15.29 standards.

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major release as defined by 19.15.29.7(A) NMAC? | If YES, for what reason(s) does the responsible party consider this a major release? |
|--|---|
| 🗌 Yes 🖾 No | |
| | |
| If YES, was immediate no | otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

| Printed Name: | Title: | |
|---------------|------------|---|
| Signature: | Date: | - |
| email: | Telephone: | |
| | | |
| OCD Only | | |
| Received by: | Date: | |

State of New Mexico Oil Conservation Division

| Incident | ID | |
|----------|---------|--|
| District | RP | |
| Facility | ID | |
| Applicat | tion ID | |

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release? | <u>>100</u> (ft bgs) |
|---|-------------------------|
| Did this release impact groundwater or surface water? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | 🛛 Yes 🗌 No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within 300 feet of a wetland? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying a subsurface mine? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | 🗌 Yes 🛛 No |
| Are the lateral extents of the release within a 100-year floodplain? | 🛛 Yes 🗌 No |
| Did the release impact areas not on an exploration, development, production, or storage site? | 🗌 Yes 🛛 No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.

- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
 Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

| Form C-141 | State of New Me | exico | Incident ID | |
|---|--------------------|--|--|---|
| Page 4 | Oil Conservation D | ivision | District RP | |
| | | | Facility ID | |
| | | | Application ID | |
| regulations all operators are public health or the enviror failed to adequately investi | ten Muy | release notifications and perform co ort by the OCD does not relieve the pose a threat to groundwater, surfa | prrective actions for relea operator of liability sho ce water, human health iance with any other fed | ases which may endanger ould their operations have or the environment. In |
| OCD Only | | | | |
| Received by: | | Date: | | |
| | | | | |

State of New Mexico Oil Conservation Division

| Inci | ident ID | |
|------|--------------|--|
| Dis | trict RP | |
| Fac | ility ID | |
| App | olication ID | |

Remediation Plan

| <u>Remediation Plan Checklist</u> : Each of the following items must be included in the plan. | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) | | | | | | | | | |
| Deferred Requests Only: Each of the following items must be confirmed as part of any request for deferred of remediation | | | | | | | | | |
| Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. | | | | | | | | | |
| Extents of contamination must be fully delineated. | | | | | | | | | |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater. | | | | | | | | | |
| | | | | | | | | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. | | | | | | | | | |
| Printed Name: Title: | | | | | | | | | |
| Signature: Date: | | | | | | | | | |
| email: Telephone: | | | | | | | | | |
| | | | | | | | | | |
| OCD Only | | | | | | | | | |
| Received by: Date: | | | | | | | | | |
| Approved Approved with Attached Conditions of Approval Denied Deferral Approved | | | | | | | | | |
| Signature: Date: | | | | | | | | | |

State of New Mexico Oil Conservation Division

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

| Closure Report Attachment Checklist: Each of th | e following items must be included in the closure report. |
|---|---|
|---|---|

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| Printed Name: <u>Steve Moskal</u> | Title: <u>Environmental Coordinator</u> | | | | | | |
|---|---|--|--|--|--|--|--|
| Signature: | Date: <u>January 16, 2019</u> Telephone: <u>(505) 330-9179</u> | | | | | | |
| OCD Only | | | | | | | |
| Received by: | Date: | | | | | | |
| Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. | | | | | | | |
| Closure Approved by: | Date: | | | | | | |
| Printed Name: | Title: | | | | | | |

BP America Gallegos Canyon Unit 210 - API: 30-045-11648 (L) Sec 31 – T29N – R12W, San Juan County, New Mexico

Summary Record of Impact Remediation

June 25, 2018

1. Confirmation sampling conducted of a 95 barrel below grade tank (BGT). 5 point composite sample (**5pcs**) collected directly beneath BGT at 4 feet (**ft**.) below grade (**b.g.**). Based on discolored soils and strong hydrocarbon odor detected beneath the BGT, a test hole was advanced within the BGT footprint. A grab sample was collected after a distinguishable change in color (to dark yellowish orange) and lack of hydrocarbon odor was observed / detected at 8 ft. b.g.

2. BGT permit and Release Rule 19.15.29 NMAC closure standards are within the laboratory results listed in the table below. NMOCD 19.15.29 NMAC site closure standard determined total petroleum hydrocarbons (TPH) at 100 mg/kg based on:

Distance to groundwater: > 100 ft.

Distance to nearest water source: > 1.000 ft.

Distance to nearest significant watercourse: < 300 ft.

3. Gas well to be plugged and abandoned.

4. Federal mineral lease; Private/Fee surface lease (Bolack Ranch).

| Sample ID | Field OVM (ppm) | TPH (GRO+DRO+MRO) (mg/Kg) | Total BTEX (mg/Kg) | Benzene (mg/Kg) | Cl ⁻ (mg/Kg) | |
|--------------------|--------------------------------|---------------------------------|-----------------------|--------------------|----------------------------|--|
| 5PC – TB @ 4' (95) | 5,134 | 6,500 | 71.1 | ND | 130 | |
| BGT Permit Cl | BGT Permit Closure Standard | | 50 | 0.2 | 250 | |
| GRAB @ 8' (95) | 41.6 | ND | ND | ND | 620 | |
| 19.15.29 NMAC CI | 19.15.29 NMAC Closure Standard | | 50 | 10 | 600 | |

June 26, 2018 Preliminary lab results were as follows;

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, MRO - Motor Oil Range Organics, ND not detected at the laboratory reporting limits.

June 27, 2018 Received 06/25/2018 5pcs and grab samples final laboratory reports. Official date of impact discoverv. Initiated remediation via excavation and haul. Impacted media later transported to September 27, 2018 Envirotech landfarm. September 28, 2018 Conducted excavation closure sampling. Initial dimensions: 22 x 18 x 11 ft. depth. Top five (5) ft. regarded as non-impacted soils and temporarily stockpiled. October 2, 2018

Received 09/28/2018 closure sample final laboratory report. Results listed below.

Excavation Closure Sample Laboratory Analytical Result September 28, 2018 (see Figure 1 map)

| Sample ID | Field | TPH | Total BTEX | Benzene | Chloride | |
|--------------------------------|-------|---------------|------------|---------|----------|--|
| | OVM | (GRO+DRO+MRO) | (mg/Kg) | (mg/Kg) | (mg/Kg) | |
| | (ppm) | (mg/Kg) | | | | |
| Base 5-pt @ 11' | 1.2 | ND | ND | ND | 1,100 | |
| West Walls 5-pt (4'-10') | 3.1 | ND | ND | ND | 110 | |
| South Walls 5-pt (4'-10') | 3.1 | ND | ND | ND | 49 | |
| East Walls 5-pt (4'-10') | 3.5 | ND | ND | ND | 1,200 | |
| North Walls 5-pt (4'-10') 2.8 | | ND | ND | ND | 650 | |
| 19.15.29 NMAC Closure Standard | | 100 | 50 | 10 | 600 | |

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

October 9, 2018 October 11, 2018

Conducted excavation closure sampling. Dimensions: $30 \ge 27 \ge 16$ ft. depth. Received 10/09/2018 closure sample final laboratory report. Results listed below.

| - | October 9, 2018 (see Figure 2 map) | | | | | | |
|------------------------|------------------------------------|---------------|------------|---------|----------|--|--|
| Sample ID | Field | TPH | Total BTEX | Benzene | Chloride | | |
| | OVM | (GRO+DRO+MRO) | (mg/Kg) | (mg/Kg) | (mg/Kg) | | |
| | (ppm) | (mg/Kg) | | | | | |
| Base 1: 5-pt @ 16' | 2.3 | ND | ND | ND | 640 | | |
| Base 2: 5-pt @ 16' | 4.3 | ND | ND | ND | 570 | | |
| Base 3: 5-pt @ 16' | 1.1 | 10 | ND | ND | ND | | |
| East Wall (South half) | 0.7 | ND | ND | ND | 160 | | |
| East Wall (North half) | 0.7 | ND | ND | ND | 92 | | |
| North Wall (East half) | 0.8 | ND | ND | ND | 39 | | |
| 19.15.29 NMAC Clo | sure Standard | 100 | 50 | 10 | 600 | | |

Excavation Closure Sample Laboratory Analytical Result October 9, 2018 (see Figure 2 map)

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

October 12, 2018 October 16, 2018 Conducted excavation closure sampling. Dimensions: $55 \times 42 \times 16$ ft. depth. Received 10/12/2018 closure sample final laboratory report. Results listed below.

Excavation Closure Sample Laboratory Analytical Result October 12, 2018 (see Figure 3 map)

| 19.15.29 NMA | C Closur | e Standard | 100 | 50 | 10 | 600 |
|--------------------------------|----------|------------|---------------|------------|---------|----------|
| South Wall - 8-pt. | 6 | 0.8 | ND | ND | ND | 240 |
| West Wall (north half) - 5-pt. | 5 | 0.0 | ND | ND | ND | 63 |
| North Wall (west half) - 5-pt. | 4 | 24.5 | 29 | ND | ND | ND |
| Base #5 (northwest) - 4-pt. | 3 | 5.8 | ND | ND | ND | 120 |
| Base #4 (north) - 4-pt. | 2 | 0.4 | ND | ND | ND | ND |
| Base #1 (south) II - 5-pt. | 1 | 2.0 | ND | ND | ND | 430 |
| | | (ppm) | (mg/Kg) | | | |
| | ID | OVM | (GRO+DRO+MRO) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| Sample ID | Map | Field | TPH | Total BTEX | Benzene | Chloride |

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

October 19, 2018 Completed excavation backfilling.

SITING AND HYDRO-GEOLOGICAL REPORT FOR GALLEGOS CANYON UNIT 210 – TANK ID: 3004511648A

Siting Criteria 19.15.17.10 NMAC

Depth to groundwater at the site is estimated to be greater than 100 feet. This estimation is based on data from Stone and others (1983), and depth to groundwater data obtained from water wells permitted by the New Mexico State Engineer's Office (OSE, Figure 1). Local topography and proximity to adjacent water features is also considered. A topographic map of the site is provided as Figure 2 and demonstrates that the below grade tank (BGT) is not within 300 feet of any continuously flowing watercourse or within 200 feet of any other significant watercourse, lakebed, sinkhole or playa lake as measured from the ordinary high water mark. Figure 3 demonstrates that the BGT is not within 300 feet of a permanent residence, school, hospital, institution or church. Figure 4 demonstrates, based on a search of the OSE database and USGS topographic maps, that there are no freshwater wells or springs within 1000 feet of the BGT. Figure 5 demonstrates that the BGT is not within a municipal boundary or a defined municipal freshwater well field. Figure 6 demonstrates that the BGT is not within 500 feet of a wetland. Figure 7 demonstrates that the BGT is not in an area overlying a subsurface mine. The BGT is not located in an unstable area. Figure 8 demonstrates that the BGT is not within the mapped FEMA 100-year floodplain.

Local Geology and Hydrology

This particular site is located on a mesa top south of the San Juan River, but hundreds of feet higher in elevation. The mesa is composed of the Nacimiento Formation. Broad shaley hills are interspersed with occasional sandstone outcrops, and systems of canyons and drainages lead north to the San Juan River, which is approximately 1 mile away.

Regional Geology and Hydrology

The San Juan Basin is situated in the Navajo section of the Colorado Plateau and is characterized by broad open valleys, mesas, buttes and hogbacks. Away from major valleys and canyons topographic relief is generally low. Native vegetation is sparse and shrubby. Drainage is mainly by the San Juan River, the only permanent stream in the Navajo Section of the Colorado Plateau. The San Juan River is a tributary of the Colorado River. Major tributaries include the Animas, Chaco and La Plata Rivers. Flow of the San Juan River across the basin is regulated by the Navajo Dam, located about 30 miles northeast of Farmington, New Mexico. The climate is arid to semiarid with an average annual precipitation of 8 to 10 inches. Soils within the basin consist of weathered parent rock derived from predominantly physical means mostly from eolian depositional system with fluvial having a lesser impact.

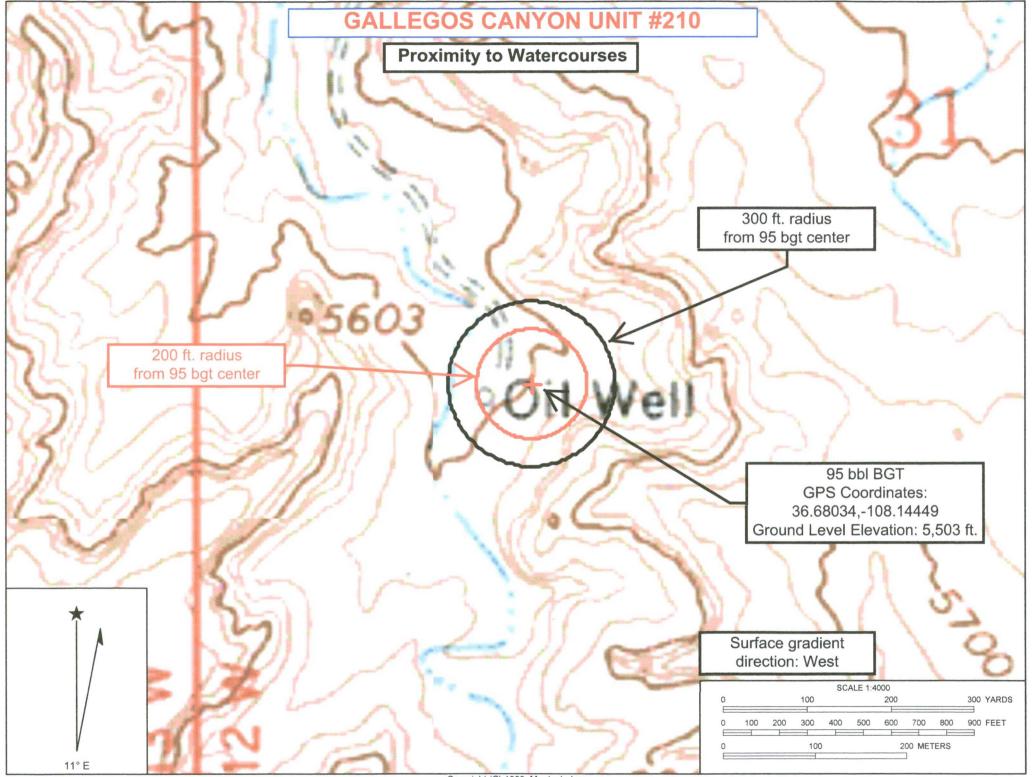
Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The Nacimiento Formation of Paleocene age occurs at the surface in a broad belt at the western and southern edges of the central San Juan Basin and dips beneath the San Jose Formation in the center. The lower part of the Nacimiento Formation is composed of interbedded black, carbonaceous mudstones and white coarse-grained

sandstones. The upper part is comprised of mudstone and sandstone. It is generally slope-forming, even within the sandstone units. Thickness of the Nacimiento ranges from 418 to 2232 feet. Aquifers within the coarser and continuous sandstone bodies of the Nacimiento Formation are between 0 and 1000 feet deep in this section of the basin. Wells within these bodies flow from 16 to 100 gallons per minute (gpm), and transmissivities are expected to be 100 ft²/d (Stone et al, 1983). Groundwater within these aquifers flows toward the San Juan River.

References

Circular 154—Guidebook to coal geology of northwest New Mexico By E. C. Beaumont, J. W. Shomaker, W. J. Stone, and others, 1976

Stone, et al., 1983, Hydrogeology and Water Resources of the San Juan Basin, New Mexico, Socorro, New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p



CONFIRMATION SAMPLING / INITIAL RELEASE INVESTIGATION

| CLIENT: BP | BLAGG ENGINEERING, INC. API #: 30045116 P.O. BOX 87, BLOOMFIELD, NM 87413 TANK ID TANK ID API #: API #: | 648 | | | | | | |
|---|---|--|--|--|--|--|--|--|
| FIELD REPORT: | (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of | 1 | | | | | | |
| SITE INFORMATION | J: SITE NAME: GCU # 210 DATE STARTED: 06/2 | 5/18 | | | | | | |
| QUAD/UNIT: L SEC: 31 TWP: | 29N RNG: 12W PM: NM CNTY: SJ ST: NM DATE FINISHED: | | | | | | | |
| 1/4 -1/4/FOOTAGE: 1,720'S / 1,1 | | | | | | | | |
| 1/4 - 1/4/FOOTAGE: 1,720 S7 1,140 W NW/SW LEASE TYPE: FEDERAL / STATE / FEE [INDIAN] ENVIRONMENTAL LEASE #: SF078109 PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES SPECIALIST(S): NJV | | | | | | | | |
| REFERENCE POINT | | and the second se | | | | | | |
| 1) 95 BGT (SW/SB) | GPS COORD.: 36.68034 X 108.14449 DISTANCE/BEARING FROM WH.: 111', S7 | 78E | | | | | | |
| 2) | GPS COORD.: DISTANCE/BEARING FROM W.H.: | | | | | | | |
| 3) | GPS COORD.: DISTANCE/BEARING FROM W.H.: | | | | | | | |
| 4) | GPS COORD.:DISTANCE/BEARING FROM W.H.: | | | | | | | |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL | OVM READING | | | | | | |
| | (95) SAMPLE DATE: 06/25/18 SAMPLE TIME: 1330 LAB ANALYSIS: 8015B/8021B/300.0 (CI) | (ppm) 5,134 | | | | | | |
| | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | | | | | | | |
| 3) SAMPLE ID: | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | | | | | | | |
| | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | | | | | | | |
| 5) SAMPLE ID: | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | | | | | | | |
| SOIL DESCRIPTION | SOIL TYPE: SAND SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OTHER | | | | | | | |
| SOIL COLOR: MOSTLY DARK | | Y PLASTIC | | | | | | |
| COHESION (ALL OTHERS): NON COHESIVE SLIGHTL | | | | | | | | |
| CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY/SLIGHTLY MOIST (MOIST) W | | | | | | | | |
| SAMPLE TYPE: GRAB COMPOSITE | | L PCT | | | | | | |
| Beer hough the second se | NO EXPLANATION - LIGHT GRAY TO BLACK AT 4 - 5 FT. BELOW GRADE | | | | | | | |
| | NS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - BGT SIDEWALLS & BOTTOM | | | | | | | |
| APPARENT EVIDENCE OF A RELEASE OBSERVE | ED AND/OR OCCURRED : YES NO EXPLANATION: PHYSICALLY OBSERVED & DETECTED | | | | | | | |
| EQUIPMENT SET OVER RECLAIMED AREA: | | | | | | | | |
| OTHER: MMOCD REP. PRESENT TO WIT | INESS CONFIRMATION SAMPLING. BGT HAD WELDED CONE TOP & WAS 15 FT. IN DIAMETER. | | | | | | | |
| EXCAVATION DIMENSION ESTIMATION | ft. X ft. X ft. EXCAVATION ESTIMATION (Cubic Yards) : | | | | | | | |
| DEPTH TO GROUNDWATER: >100' | NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,00 | 0ppm | | | | | | |
| SITE SKETCH | BGT Located : off / on site PLOT PLAN circle: attached OVM CALIB. READ. = 99.6 ppm | DE 400 | | | | | | |
| | OVM CALIB. GAS = 100 ppm | 14 -1.00 | | | | | | |
| | | 5/25/18 | | | | | | |
| | | | | | | | | |
| | MISCELL. NOT | ES | | | | | | |
| ⊕ ₩.Н. | SEPARATOR WO: | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | PBGTL PJ#: | | | | | | | |
| | B.G. Permit date(s): 00/00 | And an and a second sec | | | | | | |
| | OCD Appr. date(s): 02/26 | /18 | | | | | | |
| | D ppm = parts per million | | | | | | | |
| | A BGT Sidewalls Visible: (Y) N | | | | | | | |
| | X - S.P.D. BGT Sidewalls Visible: Y / M | | | | | | | |
| T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL | ION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT LE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. | | | | | | | |
| NOTES: GOOGLE EARTH IMAG | L WALL, DW - DOUBLE WALL, SD - SHAGLE BOTTOWI, DD - DOUBLE BOTTOWI. | | | | | | | |
| | UNSITE. UNANTO | | | | | | | |

| Analytical Report | | | | | |
|--------------------------|--|--|--|--|--|
| Lab Order 1806F19 | | | | | |
| Date Reported: 6/27/2018 | | | | | |

CLIENT: Blagg Engineering

1806F19-001

Project: GCU 210

Lab ID:

Client Sample ID: 5PC-TB @ 4' (95) Collection Date: 6/25/2018 1:30:00 PM Received Date: 6/26/2018 7:00:00 AM

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|------------------------------------|---------|--------|------|-------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | MRA |
| Chloride | 130 | 30 | | mg/Kg | 20 | 6/26/2018 12:44:00 PM | 38882 |
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS | | | | | Analyst | TOM |
| Diesel Range Organics (DRO) | 4000 | 88 | | mg/Kg | 10 | 6/26/2018 11:00:24 AM | 38880 |
| Motor Oil Range Organics (MRO) | 1400 | 440 | | mg/Kg | 10 | 6/26/2018 11:00:24 AM | 38880 |
| Surr: DNOP | 0 | 70-130 | S | %Rec | 10 | 6/26/2018 11:00:24 AM | 38880 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | 1100 | 70 | | mg/Kg | 20 | 6/26/2018 12:12:52 PM | 38874 |
| Surr: BFB | 553 | 15-316 | S | %Rec | 20 | 6/26/2018 12:12:52 PM | 38874 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| Benzene | ND | 0.35 | | mg/Kg | 20 | 6/26/2018 12:12:52 PM | 38874 |
| Toluene | ND | 0.70 | | mg/Kg | 20 | 6/26/2018 12:12:52 PM | 38874 |
| Ethylbenzene | 4.1 | 0.70 | | mg/Kg | 20 | 6/26/2018 12:12:52 PM | 38874 |
| Xylenes, Total | 67 | 1.4 | | mg/Kg | 20 | 6/26/2018 12:12:52 PM | 38874 |
| Surr: 4-Bromofluorobenzene | 121 | 80-120 | S | %Rec | 20 | 6/26/2018 12:12:52 PM | 38874 |

Matrix: SOIL

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | | Analyte detected in the associated Method Blank |
|-------------|--|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | | Analyte detected below quantitation limits Page 1 of 5 |
| | ND Not Detected at the Reporting Limit | | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| CLIENT: BP | BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 | API #: |
|--|--|--|
| | (505) 632-1199 | (if applicble): |
| FIELD REPORT: | (circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: | PAGE #: of |
| SITE INFORMATION | SITE NAME: GCU # 210 | DATE STARTED: 06/25/18 |
| QUAD/UNIT: L SEC: 31 TWP: | 29N RNG: 12W PM: NM CNTY: SJ ST: NM | DATE FINISHED: |
| 1/4 -1/4/FOOTAGE: 1,720'S / 1,1 | | ENVIRONMENTAL |
| LEASE #: SF078109 | PROD. FORMATION: DK CONTRACTOR: BP - J. GONZALES | SPECIALIST(S): NJV |
| REFERENCE POINT | | GLELEV: 5 503' |
| | | ARING FROM W.H.: 111', S78E |
| 2) | | ARING FROM W.H.: |
| 3) | | ARING FROM W.H.: |
| 4) | | ARING FROM W.H.: |
| SAMPLING DATA: | CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL | OVM READING |
| | | (ppm) 15B/8021B/300.0 (Cl) 41.6 |
| | | 15B/8021B/300.0 (CI) |
| | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | |
| | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | |
| 5) SAMPLE ID: | SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: | |
| SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: <u>NMOCD OR BLM REPS. NOT PR</u> EXCAVATION DIMENSION ESTIMATION: | COHESIVE / COHESIVE / HIGHLY COHESIVE COHESIVE / COHESIVE / HIGHLY COHESIVE COSE (FIRM) DENSE / VERY DENSE ET /SATURATED SUPER SATURATED COF PTS5 ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION - DIS ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION - DIS NO EXPLANATION - LIGHT GRAY TO BLACK BETWEEN 4 - 8 FT. BELOW GRADE IS: LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - BGT SIDEWALLS & E DAND/OR OCCURRED: YES NO EXPLANATION: PHYSICALLY OBSERVED & DETECT YES NO EXPLANATION - RESENT TO WITNESS CONFIRMATION SAMPLING. BGT HAD WELDED CONE T ft. Xft. Xft. EXCAVATION ES | / STIFF / VERY STIFF / HARD SCOLORED SOILS ONLY WATION - DIRECTLY BENEATH BGT OTTOM ED |
| SITE SKETCH | BGT Located : off on site PLOT PLAN circle: attached ov | M CALIB. READ. = 99.6 ppm RF =1.00 |
| ⊕ W.H. NOTES: BGT = BELOW4GRADE TANK; E.D. = EXCAVATIO | BERM SEPARATOR FENCE PBGTL T.B. ~ 4' B.G. DN DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; | M CALIB. GAS = |
| the structure structure between entry the structure of th | OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA- NOT E WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. | Magnetic declination: 10° E |
| NOTES: GOOGLE EARTH IMAG | E WALL, DW - DOUBLE WALL, SB - SINGLE BOTTOM, DB - DOUBLE BOTTOM. | |
| | | |

| Analytical Report | | | | | | |
|--------------------------|--|--|--|--|--|--|
| Lab Order 1806F18 | | | | | | |
| Date Reported: 6/27/2018 | | | | | | |

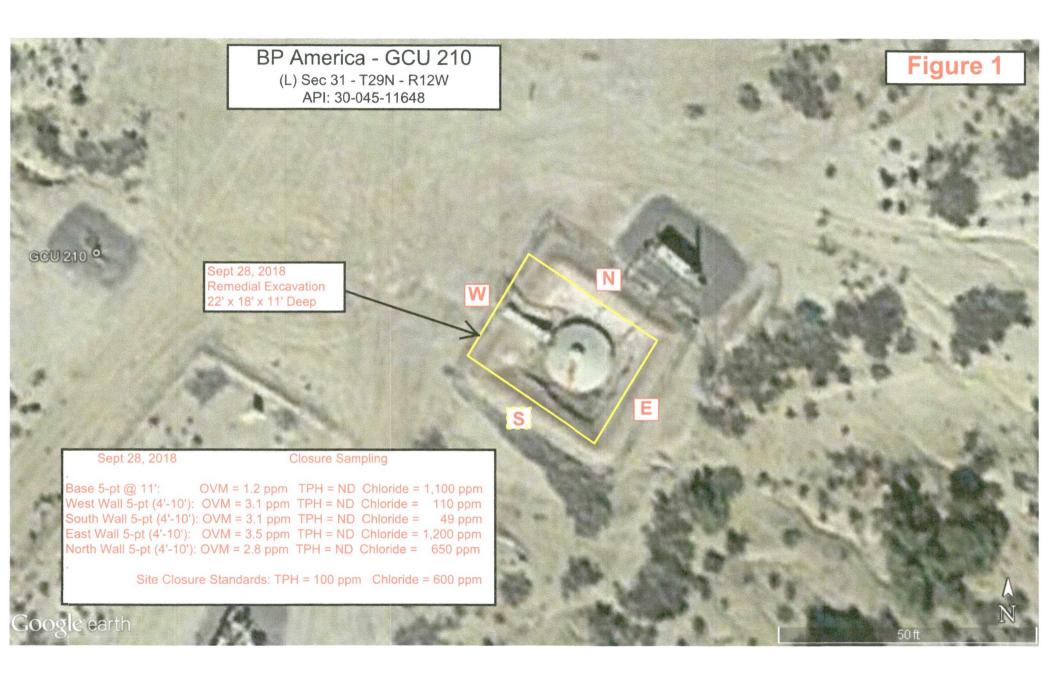
CLIENT: Blagg EngineeringClient Sample ID: GRAB @ 8' (95)Project: GCU 210Collection Date: 6/25/2018 1:35:00 PMLab ID: 1806F18-001Matrix: SOILReceived Date: 6/26/2018 7:00:00 AMAnalysesResultPOL Qual UnitsDF Date Analyzed

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|-------------------------------------|--------|--------|------------|----|-----------------------|-------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 620 | 30 | mg/Kg | 20 | 6/26/2018 12:06:45 PM | 38882 |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst | TOM |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 6/26/2018 10:11:25 AM | 38880 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 6/26/2018 10:11:25 AM | 38880 |
| Surr: DNOP | 94.1 | 70-130 | %Rec | 1 | 6/26/2018 10:11:25 AM | 38880 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | mg/Kg | 1 | 6/26/2018 11:49:27 AM | 38874 |
| Surr: BFB | 76.5 | 15-316 | %Rec | 1 | 6/26/2018 11:49:27 AM | 38874 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.018 | mg/Kg | 1 | 6/26/2018 11:49:27 AM | 38874 |
| Toluene | ND | 0.036 | mg/Kg | 1 | 6/26/2018 11:49:27 AM | 38874 |
| Ethylbenzene | ND | 0.036 | mg/Kg | 1 | 6/26/2018 11:49:27 AM | 38874 |
| Xylenes, Total | ND | 0.071 | mg/Kg | 1 | 6/26/2018 11:49:27 AM | 38874 |
| Surr: 4-Bromofluorobenzene | 97.0 | 80-120 | %Rec | 1 | 6/26/2018 11:49:27 AM | 38874 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 1 of 5 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |

Remediation

09/28/2018



| Analytical Report | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| Lab Order 1809H96 | | | | | | | |
| Date Reported: 10/2/2018 | | | | | | | |

| CLIENT: | Blagg Engineering | | C | Client Sample ID: Base 5-pt @ 11' |
|-----------------|-------------------|-----------|-------------|---------------------------------------|
| Project: | GCU 210 | | | Collection Date: 9/28/2018 1:21:00 PM |
| Lab ID: | 1809H96-001 | Matrix: M | IEOH (SOIL) | Received Date: 9/29/2018 10:05:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | smb |
| Chloride | 1100 | 30 | mg/Kg | 20 | 10/1/2018 11:15:28 AM | 40701 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 10/1/2018 1:46:47 PM | 40692 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/1/2018 1:46:47 PM | 40692 |
| Surr: DNOP | 103 | 50.6-138 | %Rec | 1 | 10/1/2018 1:46:47 PM | 40692 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 10/1/2018 11:20:06 AM | G54538 |
| Surr: BFB | 94.5 | 15-316 | %Rec | 1 | 10/1/2018 11:20:06 AM | G54538 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.020 | mg/Kg | 1 | 10/1/2018 11:20:06 AM | B54538 |
| Toluene | ND | 0.040 | mg/Kg | 1 | 10/1/2018 11:20:06 AM | B54538 |
| Ethylbenzene | ND | 0.040 | mg/Kg | 1 | 10/1/2018 11:20:06 AM | B54538 |
| Xylenes, Total | ND | 0.081 | mg/Kg | 1 | 10/1/2018 11:20:06 AM | B54538 |
| Surr: 4-Bromofluorobenzene | 92.4 | 80-120 | %Rec | 1 | 10/1/2018 11:20:06 AM | B54538 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 1 of 9 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|
| Lab Order 1809H96 | | | | | | | |
| Date Reported: 10/2/2018 | | | | | | | |

| CLIENT: | Blagg Engineering | (| Client Sample ID: West Wall 5-pt |
|-----------------|-------------------|---------------------|---------------------------------------|
| Project: | GCU 210 | | Collection Date: 9/28/2018 1:12:00 PM |
| Lab ID: | 1809H96-002 | Matrix: MEOH (SOIL) | Received Date: 9/29/2018 10:05:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | smb |
| Chloride | 110 | 30 | mg/Kg | 20 | 10/1/2018 11:27:52 AM | 40701 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 10/1/2018 2:11:16 PM | 40692 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/1/2018 2:11:16 PM | 40692 |
| Surr: DNOP | 101 | 50.6-138 | %Rec | 1 | 10/1/2018 2:11:16 PM | 40692 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 10/1/2018 11:43:27 AM | G54538 |
| Surr: BFB | 93.6 | 15-316 | %Rec | 1 | 10/1/2018 11:43:27 AM | G54538 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/1/2018 11:43:27 AM | B54538 |
| Toluene | ND | 0.038 | mg/Kg | 1 | 10/1/2018 11:43:27 AM | B54538 |
| Ethylbenzene | ND | 0.038 | mg/Kg | 1 | 10/1/2018 11:43:27 AM | B54538 |
| Xylenes, Total | ND | 0.077 | mg/Kg | 1 | 10/1/2018 11:43:27 AM | B54538 |
| Surr: 4-Bromofluorobenzene | 91.4 | 80-120 | %Rec | 1 | 10/1/2018 11:43:27 AM | B54538 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 2 of 9 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|--------------------------|
| Lab Order 1809H96 |
| Date Reported: 10/2/2018 |

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: | Blagg Engineering | (| Client Sample ID: South Wall 5-pt |
|----------------|-------------------|---------------------|---------------------------------------|
| Project: | GCU 210 | | Collection Date: 9/28/2018 1:18:00 PM |
| Lab ID: | 1809H96-003 | Matrix: MEOH (SOIL) | Received Date: 9/29/2018 10:05:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | smb |
| Chloride | 49 | 30 | mg/Kg | 20 | 10/1/2018 11:40:16 AM | 40701 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: | TOM |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 10/1/2018 2:35:56 PM | 40692 |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 10/1/2018 2:35:56 PM | 40692 |
| Surr: DNOP | 102 | 50.6-138 | %Rec | 1 | 10/1/2018 2:35:56 PM | 40692 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 4.5 | mg/Kg | 1 | 10/1/2018 12:06:43 PM | G54538 |
| Surr: BFB | 92.5 | 15-316 | %Rec | 1 | 10/1/2018 12:06:43 PM | G54538 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.023 | mg/Kg | 1 | 10/1/2018 12:06:43 PM | B54538 |
| Toluene | ND | 0.045 | mg/Kg | 1 | 10/1/2018 12:06:43 PM | B54538 |
| Ethylbenzene | ND | 0.045 | mg/Kg | 1 | 10/1/2018 12:06:43 PM | B54538 |
| Xylenes, Total | ND | 0.091 | mg/Kg | 1 | 10/1/2018 12:06:43 PM | B54538 |
| Surr: 4-Bromofluorobenzene | 89.9 | 80-120 | %Rec | 1 | 10/1/2018 12:06:43 PM | B54538 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 3 of 9 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|--------------------------|
| Lab Order 1809H96 |
| Date Reported: 10/2/2018 |

| CLIENT: | Blagg Engineering | (| Client Sample ID: East Wall 5-pt |
|-----------------|-------------------|---------------------|---------------------------------------|
| Project: | GCU 210 | | Collection Date: 9/28/2018 1:25:00 PM |
| Lab ID: | 1809H96-004 | Matrix: MEOH (SOIL) | Received Date: 9/29/2018 10:05:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | smb |
| Chloride | 1200 | 75 | mg/Kg | 50 | 10/1/2018 2:09:11 PM | 40701 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | TOM |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 10/1/2018 3:00:29 PM | 40692 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/1/2018 3:00:29 PM | 40692 |
| Surr: DNOP | 98.9 | 50.6-138 | %Rec | 1 | 10/1/2018 3:00:29 PM | 40692 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 4.1 | mg/Kg | 1 | 10/1/2018 12:29:57 PM | G54538 |
| Surr: BFB | 94.0 | 15-316 | %Rec | 1 | 10/1/2018 12:29:57 PM | G54538 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | NSB |
| Benzene | ND | 0.020 | mg/Kg | 1 | 10/1/2018 12:29:57 PM | B54538 |
| Toluene | ND | 0.041 | mg/Kg | 1 | 10/1/2018 12:29:57 PM | B54538 |
| Ethylbenzene | ND | 0.041 | mg/Kg | 1 | 10/1/2018 12:29:57 PM | B54538 |
| Xylenes, Total | ND | 0.082 | mg/Kg | 1 | 10/1/2018 12:29:57 PM | B54538 |
| Surr: 4-Bromofluorobenzene | 92.8 | 80-120 | %Rec | 1 | 10/1/2018 12:29:57 PM | B54538 |

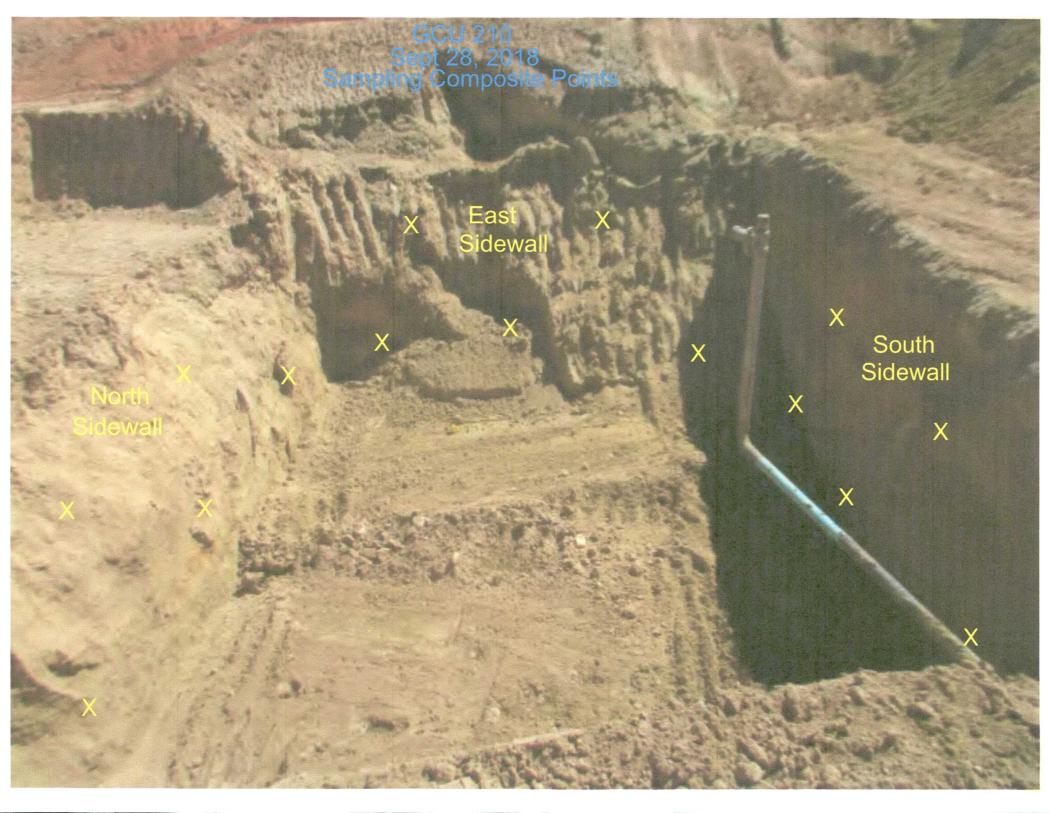
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 4 of 9 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

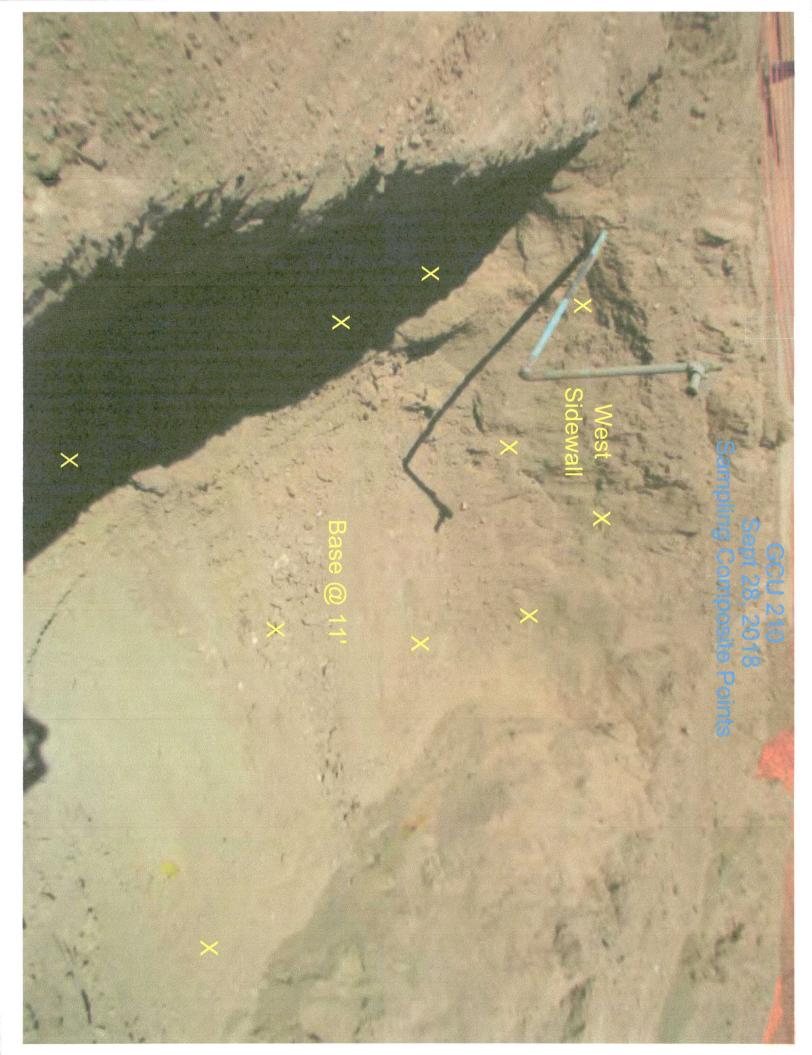
| Analytical Report |
|--------------------------|
| Lab Order 1809H96 |
| Date Reported: 10/2/2018 |

| Project: GCU 210 Lab ID: 1809H96-00 | | D | esult | DOI | Qual | Linita | DE | Date Analy | bory | в |
|---|--------|---------|---------|------|---------|---------|--------|---------------|----------|---|
| Project: GCU 210 | 15 | Matrix: | MEOH (S | OIL) | Receiv | ed Dat | e: 9/2 | 29/2018 10:0 | 05:00 AM | |
| | | | | (| Collect | ion Dat | e: 9/2 | 28/2018 1:31 | :00 PM | |
| CLIENT: Blagg Engin | eering | | | CI | ient Sa | mple I | D: No | orth Wall 5-p | ot | |

| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: | smb |
| Chloride | 650 | 30 | | mg/Kg | 20 | 10/1/2018 12:05:06 PM | 40701 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst | том |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 10/1/2018 3:25:22 PM | 40692 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 10/1/2018 3:25:22 PM | 40692 |
| Surr: DNOP | 104 | 50.6-138 | | %Rec | 1 | 10/1/2018 3:25:22 PM | 40692 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: | NSB |
| Gasoline Range Organics (GRO) | ND | 3.6 | | mg/Kg | 1 | 10/1/2018 12:53:16 PM | G54538 |
| Surr: BFB | 95.2 | 15-316 | | %Rec | 1 | 10/1/2018 12:53:16 PM | G54538 |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: | NSB |
| Benzene | ND | 0.018 | | mg/Kg | 1 | 10/1/2018 12:53:16 PM | B54538 |
| Toluene | ND | 0.036 | | mg/Kg | 1 | 10/1/2018 12:53:16 PM | B54538 |
| Ethylbenzene | ND | 0.036 | | mg/Kg | 1 | 10/1/2018 12:53:16 PM | B54538 |
| Xylenes, Total | ND | 0.073 | | mg/Kg | 1 | 10/1/2018 12:53:16 PM | B54538 |
| Surr: 4-Bromofluorobenzene | 93.5 | 80-120 | | %Rec | 1 | 10/1/2018 12:53:16 PM | B54538 |

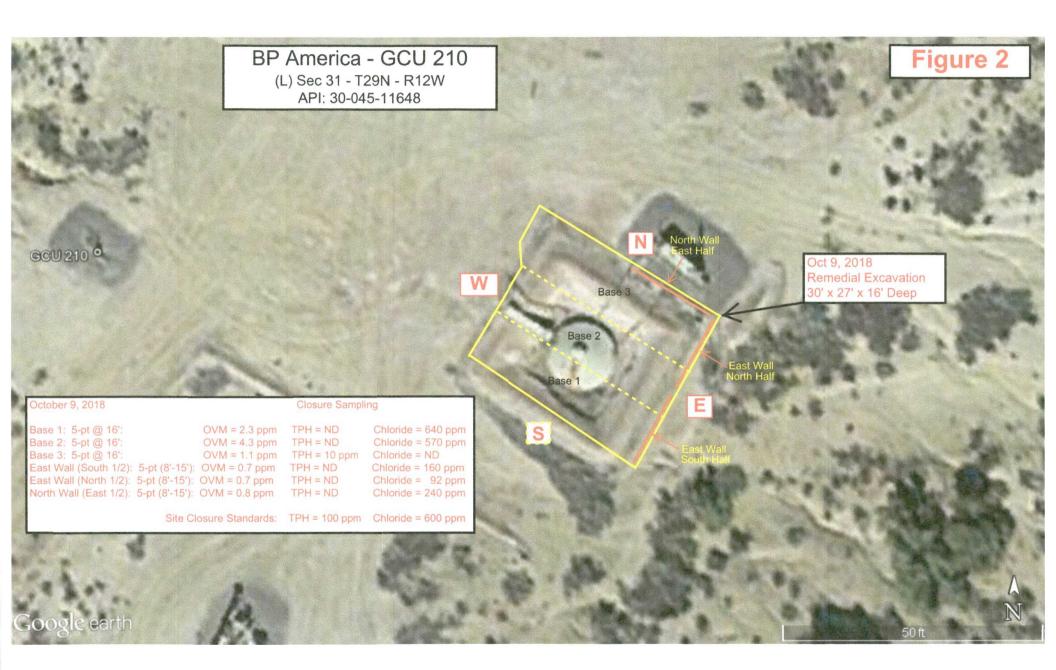
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 5 of 9 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |





Remediation

10/09/2018



| Analytical Report | | | | | |
|---------------------------|--|--|--|--|--|
| Lab Order 1810554 | | | | | |
| Date Reported: 10/11/2018 | | | | | |

| Analyses | | R | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
|----------|-------------------|-----------------------------------|-----------|-------|---------|---------|--------------|---------------------|-------|
| Lab ID: | 1810554-001 | Matrix: | : MEOH (S | SOIL) | Receiv | ved Dat | e: 10 | /10/2018 8:00:00 AM | |
| Project: | GCU 210 | | | (| Collect | ion Dat | e: 10 | /9/2018 2:00:00 PM | |
| CLIENT: | Blagg Engineering | Client Sample ID: Base #1 (South) | | | | | | | |

| | the subscription of the subscription of the | and the second | and the second se | ACCURATE OFFICE | |
|--------------------------------------|---|--|---|-----------------|-------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | 640 | 30 | mg/Kg | 20 | 10/10/2018 10:55:28 AM 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 10/10/2018 11:27:36 AM 40918 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 10/10/2018 11:27:36 AM 40918 |
| Surr: DNOP | 122 | 50.6-138 | %Rec | 1 | 10/10/2018 11:27:36 AM 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.3 | mg/Kg | 1 | 10/10/2018 12:57:38 PM G54774 |
| Surr: BFB | 93.5 | 15-316 | %Rec | 1 | 10/10/2018 12:57:38 PM G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.021 | mg/Kg | 1 | 10/10/2018 12:57:38 PM B54774 |
| Toluene | ND | 0.043 | mg/Kg | 1 | 10/10/2018 12:57:38 PM B54774 |
| Ethylbenzene | ND | 0.043 | mg/Kg | 1 | 10/10/2018 12:57:38 PM B54774 |
| Xylenes, Total | ND | 0.086 | mg/Kg | 1 | 10/10/2018 12:57:38 PM B54774 |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | %Rec | 1 | 10/10/2018 12:57:38 PM B54774 |
| | | | | | |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 1 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report | | | | | |
|---------------------------|--|--|--|--|--|
| Lab Order 1810554 | | | | | |
| Date Reported: 10/11/2018 | | | | | |

| Analyses | | R | esult | POL | Oual Units | DF Date Analyzed | Batch | |
|-----------------|-------------------|---------------------------------|----------|------|-----------------------|--------------------------|-------|--|
| Lab ID: | 1810554-002 | Matrix: | MEOH (SO | OIL) | Received Date | e: 10/10/2018 8:00:00 AM | | |
| Project: | GCU 210 | | | | Collection Dat | e: 10/9/2018 2:04:00 PM | | |
| CLIENT: | Blagg Engineering | Client Sample ID: Base #2 (Mid) | | | | | | |

| Analyses | Result | TVL | Qual Units | DI | Date Analyzed Daten |
|--------------------------------------|--------|----------|------------|----|------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | 570 | 30 | mg/Kg | 20 | 10/10/2018 11:07:52 AM 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 10/10/2018 11:51:58 AM 40918 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/10/2018 11:51:58 AM 40918 |
| Surr: DNOP | 104 | 50.6-138 | %Rec | 1 | 10/10/2018 11:51:58 AM 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 10/10/2018 1:21:15 PM G54774 |
| Surr: BFB | 89.5 | 15-316 | %Rec | 1 | 10/10/2018 1:21:15 PM G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/10/2018 1:21:15 PM B54774 |
| Toluene | ND | 0.038 | mg/Kg | 1 | 10/10/2018 1:21:15 PM B54774 |
| Ethylbenzene | ND | 0.038 | mg/Kg | 1 | 10/10/2018 1:21:15 PM B54774 |
| Xylenes, Total | ND | 0.076 | mg/Kg | 1 | 10/10/2018 1:21:15 PM B54774 |
| Surr: 4-Bromofluorobenzene | 96.1 | 80-120 | %Rec | 1 | 10/10/2018 1:21:15 PM B54774 |
| | | | | | |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 2 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report | | | | | |
|---------------------------|--|--|--|--|--|
| Lab Order 1810554 | | | | | |
| Date Reported: 10/11/2018 | | | | | |

| Analyses | | R | esult | PQL | Qual Units | DF Date Analyzed | Batch |
|-----------------|-------------------|-----------------------------------|--------|-------|-----------------------|--------------------------|-------|
| Lab ID: | 1810554-003 | Matrix: | MEOH (| SOIL) | Received Dat | te: 10/10/2018 8:00:00 A | M |
| Project: | GCU 210 | | | | Collection Dat | te: 10/9/2018 3:15:00 PM | [|
| CLIENT: | Blagg Engineering | Client Sample ID: Base #3 (North) | | | | | |

| Analyses | Result | FQL | Qual Units | DF | Date Analyzeu | Daten |
|--------------------------------------|--------|----------|------------|----|-----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | Analys | t: MRA |
| Chloride | ND | 30 | mg/Kg | 20 | 10/10/2018 11:20:17 A | M 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analys | t: Irm |
| Diesel Range Organics (DRO) | 10 | 9.7 | mg/Kg | 1 | 10/10/2018 12:16:26 P | M 40918 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 10/10/2018 12:16:26 P | M 40918 |
| Surr: DNOP | 107 | 50.6-138 | %Rec | 1 | 10/10/2018 12:16:26 P | M 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analys | t: RAA |
| Gasoline Range Organics (GRO) | ND | 3.8 | mg/Kg | 1 | 10/10/2018 1:44:45 PN | 1 G54774 |
| Surr: BFB | 89.7 | 15-316 | %Rec | 1 | 10/10/2018 1:44:45 PM | 1 G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analys | t: RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/10/2018 1:44:45 PN | 1 B54774 |
| Toluene | ND | 0.038 | mg/Kg | 1 | 10/10/2018 1:44:45 PM | 1 B54774 |
| Ethylbenzene | ND | 0.038 | mg/Kg | 1 | 10/10/2018 1:44:45 PM | 1 B54774 |
| Xylenes, Total | ND | 0.075 | mg/Kg | 1 | 10/10/2018 1:44:45 PM | 1 B54774 |
| Surr: 4-Bromofluorobenzene | 97.2 | 80-120 | %Rec | 1 | 10/10/2018 1:44:45 PM | 1 B54774 |
| | | | | | | |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 3 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report | |
|---------------------------|--|
| Lab Order 1810554 | |
| Date Reported: 10/11/2018 | |

| CLIENT: | Blagg Engineering | Client Sample ID: East Wall (South Half) |
|-----------------|-------------------|--|
| Project: | GCU 210 | Collection Date: 10/9/2018 2:34:00 PM |
| Lab ID: | 1810554-004 | Matrix: MEOH (SOIL) Received Date: 10/10/2018 8:00:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed Batch |
|---------------------------------------|--------|----------|------------|----|------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | 160 | 30 | mg/Kg | 20 | 10/10/2018 11:32:41 AM 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG/ | ANICS | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 10/10/2018 12:40:51 PM 40918 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 10/10/2018 12:40:51 PM 40918 |
| Surr: DNOP | 104 | 50.6-138 | %Rec | 1 | 10/10/2018 12:40:51 PM 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 3.7 | mg/Kg | 1 | 10/10/2018 2:08:05 PM G54774 |
| Surr: BFB | 89.2 | 15-316 | %Rec | 1 | 10/10/2018 2:08:05 PM G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/10/2018 2:08:05 PM B54774 |
| Toluene | ND | 0.037 | mg/Kg | 1 | 10/10/2018 2:08:05 PM B54774 |
| Ethylbenzene | ND | 0.037 | mg/Kg | 1 | 10/10/2018 2:08:05 PM B54774 |
| Xylenes, Total | ND | 0.075 | mg/Kg | 1 | 10/10/2018 2:08:05 PM B54774 |
| Surr: 4-Bromofluorobenzene | 96.2 | 80-120 | %Rec | 1 | 10/10/2018 2:08:05 PM B54774 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 4 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|---------------------------|
| Lab Order 1810554 |
| Date Reported: 10/11/2018 |

| CLIENT: | Blagg Engineering | Client Sample ID: East Wall (North Half) |
|-----------------|-------------------|--|
| Project: | GCU 210 | Collection Date: 10/9/2018 2:40:00 PM |
| Lab ID: | 1810554-005 | Matrix: MEOH (SOIL) Received Date: 10/10/2018 8:00:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 92 | 30 | mg/Kg | 20 | 10/10/2018 11:45:05 AM | / 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst | Irm |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 10/10/2018 1:05:26 PM | 40918 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/10/2018 1:05:26 PM | 40918 |
| Surr: DNOP | 106 | 50.6-138 | %Rec | 1 | 10/10/2018 1:05:26 PM | 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | RAA |
| Gasoline Range Organics (GRO) | ND | 4.2 | mg/Kg | 1 | 10/10/2018 2:31:23 PM | G54774 |
| Surr: BFB | 88.9 | 15-316 | %Rec | 1 | 10/10/2018 2:31:23 PM | G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | RAA |
| Benzene | ND | 0.021 | mg/Kg | 1 | 10/10/2018 2:31:23 PM | B54774 |
| Toluene | ND | 0.042 | mg/Kg | 1 | 10/10/2018 2:31:23 PM | B54774 |
| Ethylbenzene | ND | 0.042 | mg/Kg | 1 | 10/10/2018 2:31:23 PM | B54774 |
| Xylenes, Total | ND | 0.083 | mg/Kg | 1 | 10/10/2018 2:31:23 PM | B54774 |
| Surr: 4-Bromofluorobenzene | 96.2 | 80-120 | %Rec | 1 | 10/10/2018 2:31:23 PM | B54774 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 5 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|---------------------------|
| Lab Order 1810554 |
| Date Reported: 10/11/2018 |

| CLIENT: | Blagg Engineering | (| Client Sample ID: North Wall (East Half) |
|----------------|-------------------|---------------------|--|
| Project: | GCU 210 | | Collection Date: 10/9/2018 2:45:00 PM |
| Lab ID: | 1810554-006 | Matrix: MEOH (SOIL) | Received Date: 10/10/2018 8:00:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 39 | 30 | mg/Kg | 20 | 10/10/2018 11:57:30 AM | 1 40919 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG/ | ANICS | | | | Analyst | Irm |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 10/10/2018 1:29:53 PM | 40918 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 10/10/2018 1:29:53 PM | 40918 |
| Sur: DNOP | 105 | 50.6-138 | %Rec | 1 | 10/10/2018 1:29:53 PM | 40918 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | RAA |
| Gasoline Range Organics (GRO) | ND | 4.1 | mg/Kg | 1 | 10/10/2018 2:54:46 PM | G54774 |
| Surr: BFB | 90.3 | 15-316 | %Rec | 1 | 10/10/2018 2:54:46 PM | G54774 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | RAA |
| Benzene | ND | 0.020 | mg/Kg | 1 | 10/10/2018 2:54:46 PM | B54774 |
| Toluene | ND | 0.041 | mg/Kg | 1 | 10/10/2018 2:54:46 PM | B54774 |
| Ethylbenzene | ND | 0.041 | mg/Kg | 1 | 10/10/2018 2:54:46 PM | B54774 |
| Xylenes, Total | ND | 0.082 | mg/Kg | 1 | 10/10/2018 2:54:46 PM | B54774 |
| Surr: 4-Bromofluorobenzene | 97.6 | 80-120 | %Rec | 1 | 10/10/2018 2:54:46 PM | B54774 |

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|--|-----|---|----|---|
| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 6 of 12 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

Sample Points (Oct 9, 2018)

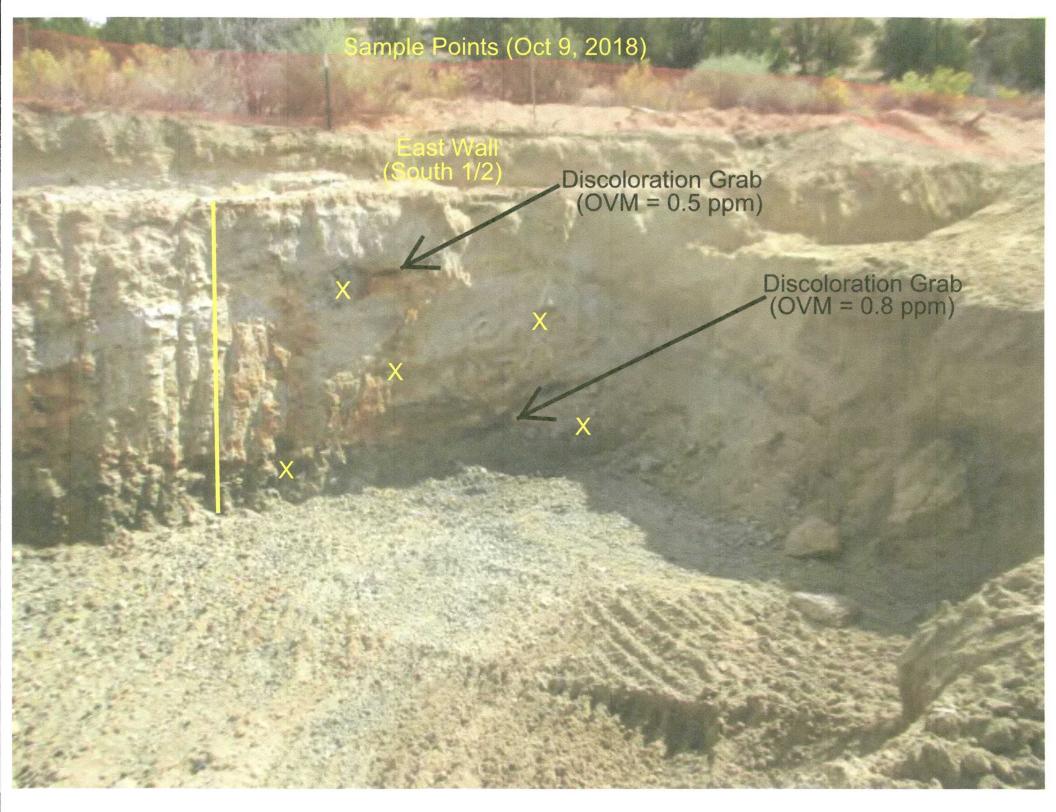
North Wall (East 1/2) East Wall (North 1/2)

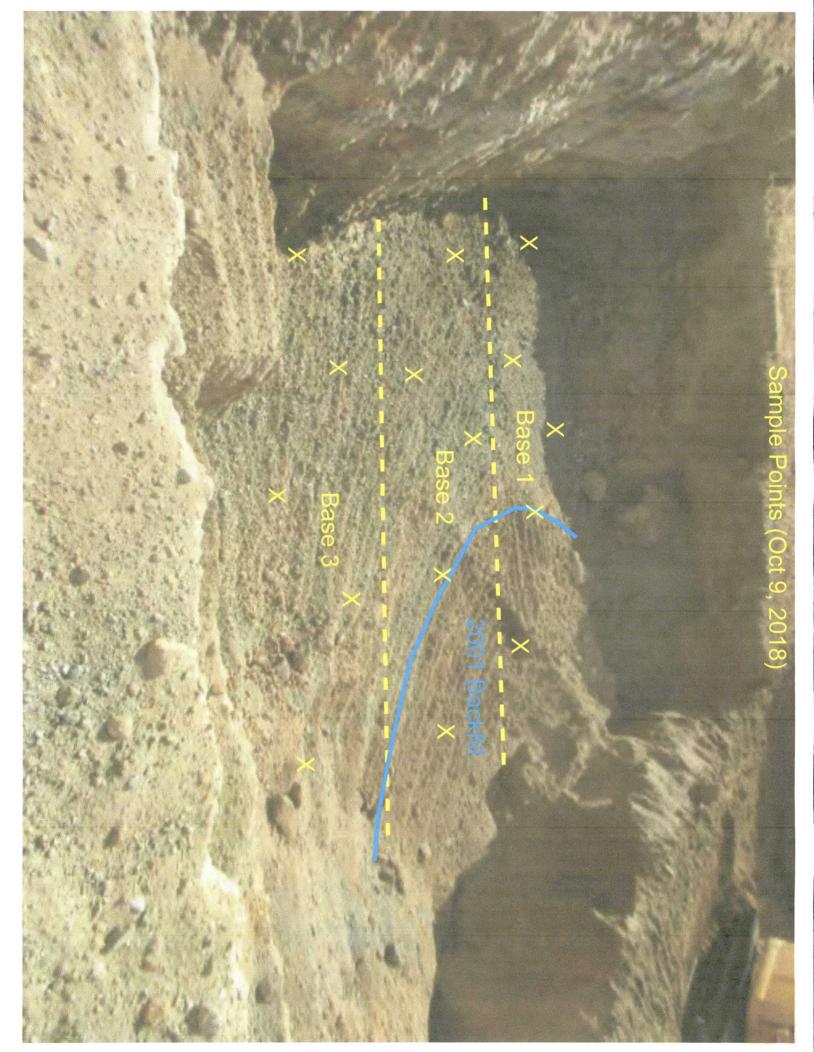
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X

oints (Oct 9, 2018)

Discoloration Grab (OVM = 0.7 ppm)





Remediation

10/12/2018



| Hall Environmental Analy | ysis Laboratory, I | Inc. | | | | Analytical Report Lab Order 1810786 Date Reported: 10/16 | /2018 |
|---------------------------|--|--------|----------|---------|--------|--|----------|
| CLIENT: Blagg Engineering | | C | lient Sa | mple ID |): Ba | se #1 (South) 2 | |
| Project: GCU #210 | Collection Date: 10/12/2018 1:16:00 PM | | | | | 1 | |
| Lab ID: 1810786-001 | Matrix: MEOH | (SOIL) | Receiv | ed Date | e: 10/ | /13/2018 10:20:00 A | Μ |
| Analyses | Result | PQL | Qual | Units | DF | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | | | , | vst: MRA |
| Chloride | 430 | 30 | | mg/Kg | 20 | 10/15/2018 12:19:44 | PM 41001 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 1 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|---------------------------|
| Lab Order 1810786 |
| Date Reported: 10/16/2018 |

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: | Blagg Engineering | Client Sample ID: North Wall (West Half) |
|----------------|-------------------|---|
| Project: | GCU #210 | Collection Date: 10/12/2018 1:52:00 PM |
| Lab ID: | 1810786-002 | Matrix: MEOH (SOIL) Received Date: 10/13/2018 10:20:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed Batch |
|--------------------------------------|--------|----------|------------|----|------------------------------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: MRA |
| Chloride | ND | 30 | mg/Kg | 20 | 10/15/2018 12:56:59 PM 41001 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: Irm |
| Diesel Range Organics (DRO) | 29 | 9.7 | mg/Kg | 1 | 10/15/2018 10:58:54 AM 40997 |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 10/15/2018 10:58:54 AM 40997 |
| Surr: DNOP | 93.8 | 50.6-138 | %Rec | 1 | 10/15/2018 10:58:54 AM 40997 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 3.9 | mg/Kg | 1 | 10/15/2018 11:49:31 AM 40985 |
| Surr: BFB | 89.8 | 15-316 | %Rec | 1 | 10/15/2018 11:49:31 AM 40985 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/15/2018 11:49:31 AM 40985 |
| Toluene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 11:49:31 AM 40985 |
| Ethylbenzene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 11:49:31 AM 40985 |
| Xylenes, Total | ND | 0.078 | mg/Kg | 1 | 10/15/2018 11:49:31 AM 40985 |
| Surr: 4-Bromofluorobenzene | 90.8 | 80-120 | %Rec | 1 | 10/15/2018 11:49:31 AM 40985 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 2 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|--------------------------|
| Lab Order 1810786 |

Date Reported: 10/16/2018

Hall Environmental Analysis Laboratory, Inc.

| Analyses | Result POL Qual Units DF Date Analyzed Bat |
|---------------------------|---|
| Lab ID: 1810786-003 | Matrix: MEOH (SOIL) Received Date: 10/13/2018 10:20:00 AM |
| Project: GCU #210 | Collection Date: 10/12/2018 1:37:00 PM |
| CLIENT: Blagg Engineering | Client Sample ID: Base #4 (North) |
| | |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | ND | 30 | mg/Kg | 20 | 10/15/2018 1:09:23 PM | 41001 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst | Irm |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 10/15/2018 11:20:45 AM | / 40997 |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 10/15/2018 11:20:45 AM | / 40997 |
| Surr: DNOP | 99.7 | 50.6-138 | %Rec | 1 | 10/15/2018 11:20:45 AM | 1 40997 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | RAA |
| Gasoline Range Organics (GRO) | ND | 3.9 | mg/Kg | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| Surr: BFB | 86.7 | 15-316 | %Rec | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| Toluene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| Ethylbenzene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| Xylenes, Total | ND | 0.078 | mg/Kg | 1 | 10/15/2018 12:12:53 PM | 1 40985 |
| Surr: 4-Bromofluorobenzene | 93.8 | 80-120 | %Rec | 1 | 10/15/2018 12:12:53 PM | 40985 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 3 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| | | | | | Lab Order 1810786 | |
|-------------------------------|-----------------|-----------|-------------|------------------|-----------------------|----------|
| Hall Environmental Analy | sis Laboratory, | Inc. | | a waxaa ka ku ku | Date Reported: 10/16/ | 2018 |
| CLIENT: Blagg Engineering | | Clien | t Sample II |): Ba | se #5 (North West) | |
| Project: GCU #210 | | Coll | ection Dat | e: 10/ | /12/2018 1:27:00 PM | [|
| Lab ID: 1810786-004 | Matrix: MEOH | (SOIL) Re | ceived Dat | e: 10/ | /13/2018 10:20:00 A | М |
| Analyses | Result | PQL Q | ual Units | DF | Date Analyzed | Batch |
| EPA METHOD 300.0: ANIONS | | | | | Analy | st: MRA |
| Chloride | 120 | 30 | mg/Kg | 20 | 10/15/2018 1:21:47 P | M 41001 |
| EPA METHOD 8015M/D: DIESEL RA | NGE ORGANICS | | | | Analy | st: Irm |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 10/15/2018 11:42:42 | AM 40997 |

ND

98.5

ND

89.5

ND

ND

ND

ND

94.0

49

3.8

15-316

0.019

0.038

0.038

0.076

80-120

50.6-138

mg/Kg

%Rec

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

1

1

Motor Oil Range Organics (MRO)

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

EPA METHOD 8015D: GASOLINE RANGE

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analytical Report

10/15/2018 11:42:42 AM 40997

10/15/2018 11:42:42 AM 40997

10/15/2018 12:39:57 PM 40985

Analyst: RAA

Analyst: RAA

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 4 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

| Analytical Report |
|---------------------------|
| Lab Order 1810786 |
| Date Reported: 10/16/2018 |

Hall Environmental Analysis Laboratory, Inc.

| CLIENT: | Blagg Engineering | Client Sample ID: West Wall (North Half) |
|----------|-------------------|---|
| Project: | GCU #210 | Collection Date: 10/12/2018 1:31:00 PM |
| Lab ID: | 1810786-005 | Matrix: MEOH (SOIL) Received Date: 10/13/2018 10:20:00 AM |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|---------------------------------------|--------|----------|------------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: | MRA |
| Chloride | 63 | 30 | mg/Kg | 20 | 10/15/2018 1:34:12 PM | 41001 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG/ | ANICS | | | | Analyst: | Irm |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 10/15/2018 12:04:33 PM | 1 40997 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 10/15/2018 12:04:33 PM | 40997 |
| Surr: DNOP | 93.4 | 50.6-138 | %Rec | 1 | 10/15/2018 12:04:33 PM | 1 40997 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: | RAA |
| Gasoline Range Organics (GRO) | ND | 3.9 | mg/Kg | 1 | 10/15/2018 1:03:26 PM | 40985 |
| Surr: BFB | 89.1 | 15-316 | %Rec | 1 | 10/15/2018 1:03:26 PM | 40985 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: | RAA |
| Benzene | ND | 0.019 | mg/Kg | 1 | 10/15/2018 1:03:26 PM | 40985 |
| Toluene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 1:03:26 PM | 40985 |
| Ethylbenzene | ND | 0.039 | mg/Kg | 1 | 10/15/2018 1:03:26 PM | 40985 |
| Xylenes, Total | ND | 0.078 | mg/Kg | 1 | 10/15/2018 1:03:26 PM | 40985 |
| Surr: 4-Bromofluorobenzene | 95.0 | 80-120 | %Rec | 1 | 10/15/2018 1:03:26 PM | 40985 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 5 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |

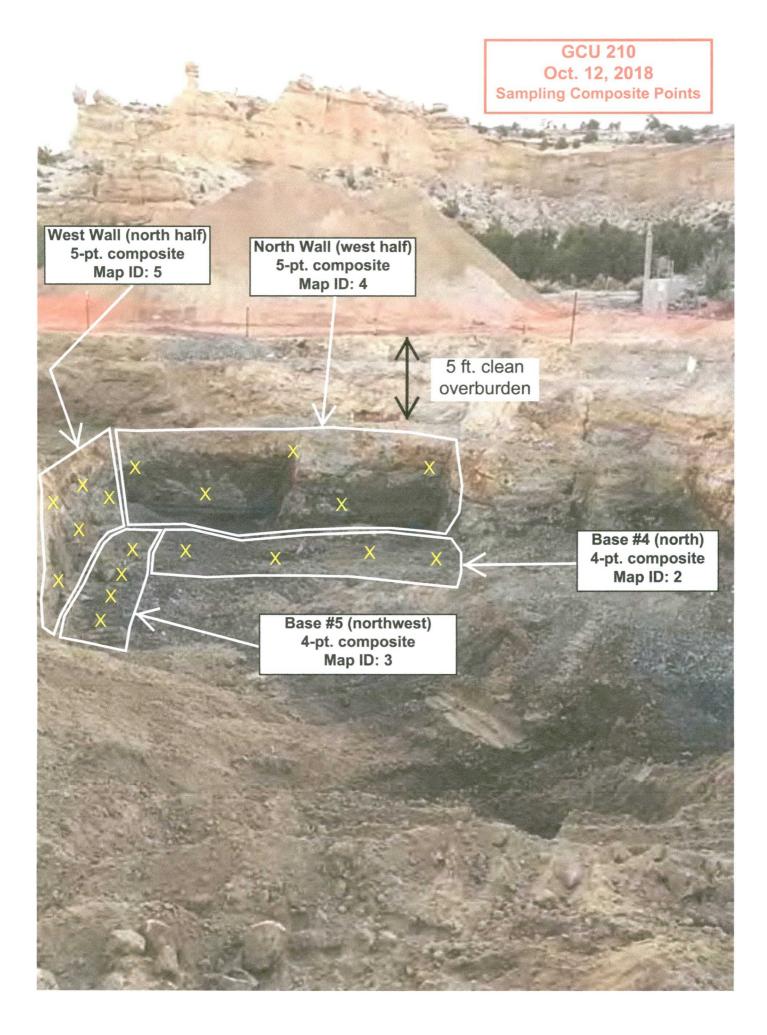
| Analytical Report |
|---------------------------|
| Lab Order 1810786 |
| Date Reported: 10/16/2018 |

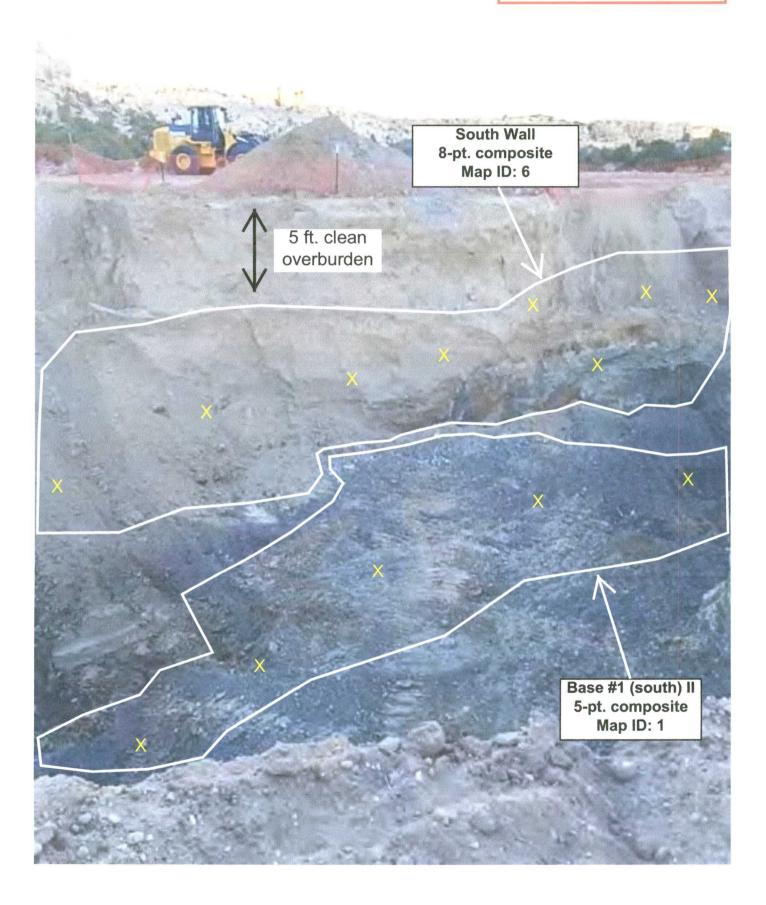
Hall Environmental Analysis Laboratory, Inc.

| Lab ID: | 1810786-006 | Matrix: MEOH (SOIL) Received Date: 10/13/2018 10:20:00 AM |
|-----------------|-------------------|---|
| Project: | GCU #210 | Collection Date: 10/12/2018 1:24:00 PM |
| CLIENT: | Blagg Engineering | Client Sample ID: South Wall |

| Analyses | Result | PQL | Qual Units | DF | Date Analyzed | Batch |
|--------------------------------------|--------|----------|------------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst | MRA |
| Chloride | 240 | 30 | mg/Kg | 20 | 10/15/2018 1:46:36 PM | 41001 |
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst | Irm |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 10/15/2018 12:26:35 PM | / 40997 |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 10/15/2018 12:26:35 PM | / 40997 |
| Surr: DNOP | 96.5 | 50.6-138 | %Rec | 1 | 10/15/2018 12:26:35 PM | / 40997 |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst | RAA |
| Gasoline Range Organics (GRO) | ND | 4.0 | mg/Kg | 1 | 10/15/2018 1:26:52 PM | 40985 |
| Surr: BFB | 86.7 | 15-316 | %Rec | 1 | 10/15/2018 1:26:52 PM | 40985 |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst | RAA |
| Benzene | ND | 0.020 | mg/Kg | 1 | 10/15/2018 1:26:52 PM | 40985 |
| Toluene | ND | 0.040 | mg/Kg | 1 | 10/15/2018 1:26:52 PM | 40985 |
| Ethylbenzene | ND | 0.040 | mg/Kg | 1 | 10/15/2018 1:26:52 PM | 40985 |
| Xylenes, Total | ND | 0.079 | mg/Kg | 1 | 10/15/2018 1:26:52 PM | 40985 |
| Surr: 4-Bromofluorobenzene | 93.4 | 80-120 | %Rec | 1 | 10/15/2018 1:26:52 PM | 40985 |

| Qualifiers: | * | Value exceeds Maximum Contaminant Level. | В | Analyte detected in the associated Method Blank |
|-------------|-----|---|----|---|
| | D | Sample Diluted Due to Matrix | Е | Value above quantitation range |
| | Н | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits Page 6 of 11 |
| | ND | Not Detected at the Reporting Limit | Р | Sample pH Not In Range |
| | PQL | Practical Quanitative Limit | RL | Reporting Detection Limit |
| | S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified |
| | | | | |





LABORATORY CHAIN-OF-CUSTODY

RECORDS

| C | hain- | of-Cus | stody Record | Turn-Around | Time: | SAME | | | | | AL | | c | NIN | /T E | 20 | | | | CA. | | |
|------------------|---|-------------|---------------------------|--|----------------------|--------------------------------|--------------|------------------|----------------|--------------------|--------------------|---------------------------|----------------------|---|--|---------------|-----------------|--------------------------|------|-------------|------------------------|----------------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | Rush | DAY) | | | E | | | | | | | | | | ATO | | | ć |
| | | | | Project Name | | | 1 1 | | | | | | | | | | l.con | | | | | |
| Mailing A | ddress: | P.O. 80 | X 87 | 1 | GCU # 21 | LO | | 49 | 01 F | lawl | | | | | | | NM 8 | | 9 | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | 1 | | | 05-3 | | | | | | | -410 | | | | | |
| Phone #: | | (505) 63 | 2-1199 | 1 | | | IN THE OWNER | | | -121 | | and the local division of | - AND THE OWNER | ysis | Contraction of the local division of the loc | AND IN COLUMN | - | - | | | | |
| email or F | ax#: | | | Project Manag | ger: | | | | | | | | | | | | | 1) | | | | |
| QA/QC Pa | • | | Level 4 (Full Validation) | | ERIN GARI | FALOS | (8021B) | + TPH (Gas only) | MRO) | | | S) | | 04,50 | PCB's | | | er - 300.1) | | | | |
| Accreditat | And the owner of the owner owner owner owner owner owner ow | | | Sampler: | NELSON VI | ELEZ | 1 (8) | (Gas | DRO / | 1) | 1) | SIM | | 0 ₂ ,F | 3082 | | | / water | | | mpl | |
| | > | D Other | | On Ice: | Ø Yes | É No − NV | | TPH | - | 418. | 504. | 827(| | O3,N | s / 8 | | (YC | 0.00 | | | e sa | r N |
| | Гуре) | 1 | | Sample Temp | erature: /. 4 | | | 3E + | (GR(| por | por |) or | etal | CI'N | icide | A) | hi-VC | oil - 3 | | e | oosit | (Y o |
| Date | Time | Matrix | Sample Request ID | A container Container Type and # Med414 | Preservative Type | HEALNO. ROGE19 | BTEX +MH | BTEX + MTBE | TPH 8015B (GRO | TPH (Method 418.1) | EDB (Method 504.1) | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | Chłoride (soil - 300.0 / | | Grab sample | 5 pt. composite sample | Air Bubbles (Y or N) |
| 6/25/18 | 1330 | SOIL | 5PC - TB @ 4 (95) | 4 oz 1 Cool - TO (V | | | | | V | | | | | | | | | ٧ | | | V | |
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| BRID. C. L. | | | | | | | | | | | | | | | | | | | | | | |
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| Date: 6/25/18 | Time: | Relinquishe | hv | Received by: | Daet 4 | Date Time | | ONT | | & RE | FEREN | ICE # | WHE | USING | LICAL | BLE; | | VITH C | ORRE | SPON | DING | VID |
| Date: 4/25/16 | Time: [SU | Relinquish | 117. | Received by: | Im Dh | Date Time Uld/264/8 ONCS | | | VID: | VHI | | EVB2 | | | | | | | | | | |

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.

| and the second se | hain-o | of-Cus | stody Record | Turn-Around | lime: | SAME | | | | F | | LL | E | NV | /16 | 20 | NI | ME | IN T | | L | |
|---|---------|-------------|---------------------------------------|-------------------------|----------------------|-----------------------|--|------------------------------|----------------------|--------------------|-------------|------------------------|----------------------|---|------------------------|-------------|-----------------|--------------------------|-------|-------------|-----------------|----------------------|
| Client: | BLAG | G ENGR. | / BP AMERICA | Standard | Rush_ | DAY | | | | | | | | | | | | | ATC | _ | | |
| | | | | Project Name: | | | | 1 | 司合 | | ww | w.ha | llen | viro | nme | ental | .con | n | | | | |
| Mailing Ad | ddress: | P.O. BO | X 87 | | GCU # 21 | LO | | 49 | 01 H | awk | ins N | VE - | Alt | ouqu | erq | ue, N | IM 8 | 3710 | 9 | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | 1 | Te | 1. 50 |)5-34 | 5-3 | 975 | 1 | Fax | 505 | -345 | -410 |)7 | | | | |
| Phone #: | | (505) 63 | 2-1199 | 1 | | | | | | | | A | nal | ysis | Red | ques | st | ALC: NO | | | | |
| email or F | ax#: | | | Project Manag | jer: | | | | | | | | 126000 | () | | | | 1) | T | T | T | |
| QA/QC Pad | - | | Level 4 (Full Validation) | | ERIN GARI | FALOS | (8021B) | oniy) | MRO) | | | S) | | O4,SO | PCB's | | | er - 300.1) | | | | |
| Accreditat | | | · · · · · · · · · · · · · · · · · · · | Sampler: | NELSON V | ELEZ | s (80 | Gas | RO/ | 1 | 1 | SIM | | 0 ₂ ,P | 082 | | | water | | | sample | |
| |) | Other | | Ôn lce: | Yes. | 🔲 No 👘 🤊 🏸 | ł | Hd | 0/0 | 118. | 504.1) | 3270 | | 03,N | s / 8 | | (A) | 0.00 | | | e sai | N) |
| | уре) | , | | Sample Temp | erature: 🏑 | 1 | | + | (GRC | po | poi | or | etals | CI'N(| cide | (A | i-VC | il - 3(| | le | osit | (Y 0I |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. ISALOF 18 | BTEX + MTBE | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO | TPH (Method 418.1) | EDB (Method | PAH (8310 or 8270SIMS) | RCRA 8 Metals | Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil - 300.0 / | | Grab sample | # pt. composite | Air Bubbles (Y or N) |
| 6/25/18 | 1335 | JOIL | GRAB E. 8'(95) | 402-1 | COOL | -00 | \checkmark | | \checkmark | | | | | | | | | \checkmark | | V | | |
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| Date: | Time: | Relinquishe | ed by: | Received by: | I | Date Time | Rem | arks | | BILL D | IRECT | | BPI | JSING | THE | CONT | ACT V | VITH C | ORRES | PON | DING | VID |
| 6/25/18 | 11el8 | 10 | lant | Chart | Leter | 6/25/18 /10/8 | 0 | ONT | | & REF | | | | | | | DN | | | | | |
| Date: | Time: | Relinquishe | ed by: | Received by | | Date Time | CONTACT: ERIN GARIFALOS / VANCE HIXON VID: VHIXONEVRM | | | | | | | | | | | | | | | |
| 4/s/18 | 180Y | 1/2/11 | at LL Dults | 1 MM | m M | - 6700 | | eren | | | P - 9 | - | _ | 111.1 | | | | | | | | |

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.

| Client: | hain | of-Cu | stody Record | Turn-Around | | | | | | ŀ | łA | LL | E | NV | /IF | 20 | NI | ME | INT | | |
|---------|------------------------------|------------|---|-------------------------|----------------------|---------------------------|-----------|------------------------------|-----------------------------|--------------------|--------------------|----------------|----------------------|---|------------------------|-------------|-----------------|-----------|-----|----|----------------------|
| | BP A | MERICA | | Standard | Rush | <u>SAME DAK</u> | | | | - | N | AL | Y: | SIS | S L | A | BO | R/ | ATC | DR | Y |
| | BLAGE | ENGIN | eeny Ivc. | Project Name | 9: | | | | | | wwv | v.ha | llenv | viron | men | tal.c | om | | | | |
| Mailing | Address | : | 0 | G | CU 21 | 10 | | 49 | 01 H | awki | ns N | NE - | Alt | buqu | erqu | e, N | M 87 | 7109 | | | |
| | | | i in the second s | Project #: | 1990 | | | | el. 50 | | | | | | | | -410 | | | | |
| Phone # | #: 51 | 55-3 | 520-1183 | | | | | | The factor | | 1 | A | naly | ysis | Req | ues | t | | | | |
| email o | | | | Project Mana | iger: | | | (VIL | 00 | | | | | D ₄) | | | | | | | T |
| QA/QC F | ^p ackage: dard | | Level 4 (Full Validation) | tt : | SABRE B | EEBE | s (8021) | (Gas ol | SO / MF | | | SIMS) | a. | PO4,S(| PCB's | • | | | | | |
| Accredi | | - | anna ann an taoine an ann an taoine an taoine ann an taoine an taoine an taoine an taoine an taoine an taoine a Taoine anns an taoine a | Sampler: | TEFF BLAG | 6 | S'EMIT- | H | / DF | = | = | 70 S | | 10 ₂ , | 082 | | | | | | G |
| D NEL | | □ Othe | er | On Ice: | Ves | No No | H | + | RO | 118. | 504. | r 8270 | | 03,1 | s / 8 | | (A) | | | | or N |
| | (Type) | 1 | T | Sample Tem | perature:5,3 | -#G102)=5.1 | MIRE | TBE | (C | od 4 | po | 0 0 | etals | CI'N | cide | (A) | -VC | CLAZ | | - | Z |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. | BTEX + MB | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or | RCRA 8 Metals | Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | CHURINE | - | | Air Bubbles (Y or N) |
| 9/28/13 | 1321 | Soil | BASE S-pt C 11' | 40221 | cont | -001 | X | | X | | | | - | | | | | X | | | |
| | 1312 | 1 | West Wall 5-pt |) | | -1002 | 1 | | 1 | | | | | | | | | 1 | | | |
| | 1318 | | South Wall 5-pt | | | -003 | | | | | | | | | | | | | | | |
| | 1325 | | EAST Wall 5-pt | | | -004 | | | | | | | | *. | | | | \square | | | |
| | 133) | 1 | NORTH Wall 5-pt | | | -005 | 1 | | 1 | | | | | | | | | | | | |
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| Date: | Time: 1768 Time: | Relinquish | (Blogg | Received by: | halt | 9/28/15 1705 Date Time | Rem | narks | s: £ | ill ONT | BP | | SAB | RĒ. | Ba | BE | <u> </u> | | | | |
| Thesty | 1852/ | Chuz | tulidate 1 | Hictoria | 1/2lla | 1 09/29/18/10:05 | | | | | | | | | | | | | t | | |

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.

| Client: | BP AME | ENGWER | Istody Record | Turn-Around Standard Project Name GC Project #: | Rush | SANE DAK | | | | P | www ins N | AL hai | llenv Alb | sironi Juqui | 5 L ment erqui | Al al.co | 30 Drm M 87 | R / | | | |
|-------------------------------------|--------------------------------------|---------|--|---|----------------------|---|-------------|------------------------------|-----------------------------|--------------------|--------------------|---------------------|---------------|------------------------------------|------------------------------|-------------------|-------------------|------------|---------------|---|----------------------|
| Phone # | + 50 | 5 - 32/ | 2 - 1183 | - | | | | 1.6 | st. 31 | 13-34 | 10-35 | A REPORT OF A DAY | No Calendaria | sis | Contraction of the | CONTRACTOR OF THE | 4101 | 1 | | | E |
| email or | and the second second second second | 2 30 | 1102 | Project Mana | der: | | | 5 | ô | | | | | | | | | | | | |
| | Package. | | Level 4 (Full Validation) | 1 | Maskal | | \$ (8021) | (Gas on | RO / MR | | | SIMS) | | PO4 SO | PCB's | | | | | | |
| Accredit | AP | C Othe | or | On Ice: | EFF BLAG | □ No | PA TIMB'S | HdI + 3 | RO / DI | 418.1) | 504.1) | r 8270 S | s | 103,NO2 | s / 8082 | | (VO) | | | | or N) |
| Date | (Type)_ | Matrix | Sample Request ID | Sample Tem Container Type and # | Preservative Type | (17)1.0-1.1-1010 22-((F)1.0=12 HEAL NO. 1810554 | BTEX +IMTBE | BTEX + MTBE + TPH (Gas only) | TPH 8015B (GRO / DRO / MRO) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 | RCRA 8 Metals | Anions (F, Cl, NO3, NO2, PO4, SO4) | 8081 Pesticides / 8082 PCB's | 8260B (VOA) | 8270 (Semi-VOA) | CHLOCIDE | | | Air Bubbles (Y or N) |
| 19/9/2018 | 1400 | SOIL | BAGE # 1 (SOUTH) | 402×1 | COOL | -001 | X | | X | | | | | | | | | X | | | |
| | 1404 1515 1934 1440 1445 | | BASE #2 (MID) BASE #3 (NORTH) EAST WALL (SUNTH HAME) EAST WALL (NORTH HAME) NORTH WALL (EAST HAVE) | | | -002 -003 -004 -005 -006 | | | | | | | | | | | | | | | |
| | | | | | | | + | | | | _ | | | | | - | | | \rightarrow | - | |
| Date: 199/19 Date: 19/1/15 | Time: 1724 Time: 1947 | | Blogg | | Lat | Date Time 199/5 1742 VVZ Date Time 10/10/18 8:00 | Rei | l nark | s: B | nic (| SP CT : | 5 | ABA | E | Béé | Ð | | | | | |

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

| C | Chain-of-Custody R cord | | | | Turn-Around Time: | | | | | 5 | | | F | NI 1 | /TE | 20 | NI I | | NTA | |
|---|-------------------------|--------------------|--|-------------------------|-------------------------------------|----------------------------|---|-------------|------------------------------------|-------------|--------------------|--------------|---------------|--|-----------------|-------------|-----------------|----------------|-------------|-----------------|
| Client: | BLAG | G ENGR | / BP AMERICA | Standard | Rush | 20 | | | F | | | | | | | | | | TO | |
| | | | | Project Name: | | | | N | 4 | - | | | | | | | | | | |
| Mailing A | ddress: | P.O. BO | X 87 | | GCU # 21 | 0 | 4901 Hawkins NE - Albuquerque, NM 87109 | | | | | | | | | | | | | |
| | | BLOOM | FIELD, NM 87413 | Project #: | | | | | Tel. 505-345-3975 Fax 505-345-4107 | | | | | | | | | | | |
| Phone #: | | (505) 63 | 32-1199 | Analy | | | | | | | /sis Request | | | | | | | | | |
| email or F | ax#: | | | Project Manager: | | | | 1 4 | | | | | | | | | | | | |
| QAVQC Pac | ckage: | | | SABRE BEEBE or | | | B) | 5 | 0 | | | | | ,50 | PCB's | | | 300.1) | | |
| Standa | ard | | Level 4 (Full Validation) | STEVE MOSKAL | | | (8021B) | (Gas only) | / MRO) | | | AS) | | P04 | | | | water - | | e |
| Accreditat | Accreditation: | | Sampler: NELSON VELEZ | | | 18 | Gai | DRO | .1) | F | 8270SIMS) | | VO' | 8082 | | | | | sample | |
| NELAP Other | | On Ice: Ves INO NV | | | | HdT | - | 418. | 504 | 827 | ~ | 03,1 | 1 | | (VC | 300.0 | | | | |
| EDD (Type) | | | Sample Temperature: $5, 9-((T), 0, 2=5.7)$ | | | | H + 38 | GR | pou | pou |) or | etal | CI,N | icide | (A) | 1-V(| | ole | oosit | |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL NO. | BTEX + MH | BTEX + MTBE | TPH 8015B (GRO | TPH (Method | EDB (Method 504.1) | PAH (8310 or | RCRA 8 Metals | Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) | 8081 Pesticides | 8260B (VOA) | 8270 (Semi-VOA) | Chloride (soil | Grab sample | # pt. composite |
| 10/12/18 | 1316 | SOIL | BASE #1 (SOUTH) II | 402 - 1 | COOL | -001 | | | | | | | | | | | | X | | 5 |
| 10/12/18 | 1352 | SOIL | NORTH WALL (WEST HARF) | 402-1 | Cool | -002 | × | | X | | | | | | | | | X | | 5 |
| 10/12/18 | 1337 | SOIL | BASE #4 (NORTH) | 402-1 | Cool | -003 | × | | X | | | | | | | | | X | | 4 |
| | | | | 11 2 | 2 | | | | | | | | | | | | | | | |
| 10/12/18 | 1327 | SOIL | BRSE #5 (NORTHONEST) | 4021 | COOL | -004 | X | | X | | - | | | | | | | X | | 4 |
| 10/12/18 | 1331 | 501L | WEST WALL (NORTH XE) | 4021 | Cool | -005 | X | | × | | | | | | | | | X | | 5 |
| 10/12/18 | 1324 | SOIL | JOUTH WRIL | 4021 | Cool | -006 | X | | X | | | | | | | | | X | | 8 |
| Date: 10/12/18 | Time | Relinquish | ed by: Mar VI | Repeived by: | ()) | Date Time 10/22/18 16/5 | - | harks | | | | | | JSING | THE | CONT | ACT | NFORM | ATION B | ELOW. |
| Date: Time. Relinquished by: 10/12/15 1834 Mach Mach | | | Repeived by: Halpia | billas | 10/12/18 16/5 Date Time 10/20 | | ONT | ACT | SAB | RE B | EEBE | | | | | | | | | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other abreedited laboratorios. This remove as aster of this sector of the

LABORATORY QUALITY

ASSURANCE /

QUALITY

CONTROL

Client: Blagg Engineering Project: GCU 210

| | - | | | |
|----------------------|--------------------------|------------------------------|-----------------|---------------|
| Sample ID MB-38882 | SampType: MBLK | TestCode: EPA Method | 300.0: Anions | |
| Client ID: PBS | Batch ID: 38882 | RunNo: 52249 | | |
| Prep Date: 6/26/2018 | Analysis Date: 6/26/2018 | SeqNo: 1712958 | Units: mg/Kg | |
| Analyte | Result PQL SPK va | ue SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| Sample ID LCS-38882 | SampType: LCS | TestCode: EPA Method | 1 300.0: Anions | |
| Client ID: LCSS | Batch ID: 38882 | RunNo: 52249 | | |
| Prep Date: 6/26/2018 | Analysis Date: 6/26/2018 | SeqNo: 1712959 | Units: mg/Kg | |
| Analyte | Result PQL SPK va | ue SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | 15 1.5 15 | 00 0 97.3 90 | 110 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

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WO#: 1806F19

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Client: Blagg Engineering GCU 210 **Project:** Sample ID LCS-38880 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 38880 RunNo: 52229 Prep Date: Analysis Date: 6/26/2018 SeqNo: 1711417 6/26/2018 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Diesel Range Organics (DRO) 42 10 50.00 0 83.5 70 130 Surr: DNOP 4.3 5.000 86.9 70 130 Sample ID MB-38880 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 38880 RunNo: 52229 Prep Date: 6/26/2018 Analysis Date: 6/26/2018 SeqNo: 1711418 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD RPDLimit Qual Analyte LowLimit Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 101 70 130

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

| Client: | Blagg I | Engineering |
|-------------|---------|----------------|
| Project: | GCU 2 | 10 |
| Sample ID M | B-38874 | SampType: MBLK |

| Sample ID MB-38874 | SampT | ype: ME | BLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
|--|---------------------|-------------------|----------------|--|------------------------|-----------------------------------|----------------------------|------------|---------------|------|
| Client ID: PBS | Batch | ID: 38 | 874 | R | | | | | | |
| Prep Date: 6/25/2018 | Analysis D | ate: 6/ | 26/2018 | S | eqNo: 1 | 712080 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | and de a president de de la proba | | | | |
| Surr: BFB | 870 | | 1000 | | 86.8 | 15 | 316 | | | |
| Sample ID LCS-38874 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | | | |
| Sample ID LCS-38874 | SampT | ype: LC | S | Test | Code: El | PA Method | 8015D: Gaso | line Range | 9 | |
| Sample ID LCS-38874 Client ID: LCSS | | ype: LC | | | tCode: EF | | 8015D: Gaso | line Range | 9 | |
| | | ID: 38 | 874 | R | | 2243 | 8015D: Gaso Units: mg/K | Ū | 9 | |
| Client ID: LCSS | Batch | ID: 38 | 874 26/2018 | R | unNo: 52 | 2243 | | Ū | e RPDLimit | Qual |
| Client ID: LCSS Prep Date: 6/25/2018 | Batch Analysis D | ID: 38 ate: 6/ | 874 26/2018 | R | tunNo: 52 SeqNo: 17 | 2243 712081 | Units: mg/K | g | | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

J

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WO#:

Client: Blagg Engineering

GCU 210

Project:

| | | | | | | | And the second second second second | | | | |
|----------------------------|-------------|---------|-----------|-----------------------------|---------------------------------------|-----------|-------------------------------------|------|----------|------|--|
| Sample ID MB-38874 | SampT | ype: ME | BLK | Tes | TestCode: EPA Method 8021B: Volatiles | | | | | | |
| Client ID: PBS | Batch | ID: 38 | 874 | F | RunNo: 5 | | | | | | |
| Prep Date: 6/25/2018 | Analysis Da | ate: 6/ | 26/2018 | SeqNo: 1712109 Units: mg/Kg | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | ND | 0.025 | | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | | |
| Sample ID LCS-38874 | SampTy | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | | |
| Client ID: LCSS | Batch | ID: 38 | 874 | F | RunNo: 5 | | | | | | |
| Prep Date: 6/25/2018 | Analysis Da | ate: 6/ | 26/2018 | S | SeqNo: 1 | 712110 | Units: mg/K | g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.4 | 77.3 | 128 | | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.1 | 79.2 | 125 | | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.2 | 80.7 | 127 | | | | |
| Xylenes, Total | | | | | 96.8 | 81.6 | 129 | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | | |
| | | | | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1806F19

27-Jun-18

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Hall Environmental Albı TEL: 505-345-3975 Website: www.ha | 4901 uquerqu FAX: 5 | Hawkins NE e, NM 87109 05-345-4107 | San | Sample Log-In Check List | | | | | |
|---|--|------------------------------|---|---------|--|----------|--|--|--|--|
| Client Name: BLAGG | Work Order Number | 1806 | F19 | | RcptNo: 1 | | | | | |
| Received By: Anne Thorne | 6/26/2018 7:00:00 AM | | 4 | Ione An | ~ | | | | | |
| Completed By: Anne Thome | 6/26/2018 7:34:04 AM | | 4 | Tom An | ~ | | | | | |
| Reviewed By: TO | 6/26/18 | | | | | | | | | |
| Labelelby: Do 06/26/1 | | | | | | | | | | |
| Chain of Custody | | | | | | | | | | |
| 1. Is Chain of Custody complete? | | Yes | | No | Not Present | | | | | |
| How was the sample delivered? | | Couri | <u>16</u> | | | | | | | |
| Log in | | | | | _ | | | | | |
| 3. Was an attempt made to cool the sample | s? | Yes | \checkmark | No 🗌 | | | | | | |
| 4. Were all samples received at a temperatu | re of >0° C to 6.0°C | Yes | | No 🗌 | NA 🗌 | | | | | |
| 5. Sample(s) in proper container(s)? | | Yes | \checkmark | No 🗌 | | | | | | |
| 6. Sufficient sample volume for indicated tes | t(s)? | Yes | | No 🗌 | | | | | | |
| 7. Are samples (except VOA and ONG) prop | erly preserved? | Yes | v | No 🗌 | | | | | | |
| 8. Was preservative added to bottles? | | Yes [| r | No 🔽 | NA 🗌 | | | | | |
| | | N | | No 🗌 | No VOA Vials 🗹 | | | | | |
| 9. VOA vials have zero headspace? | kon? | Yes [| | No 🗹 I | | | | | | |
| 10. Were any sample containers received bro11. Does paperwork match bottle labels? | intern ? | Yes | | | # of preserved bottles checked for pH: | | | | | |
| (Note discrepancies on chain of custody) | | | | | (<2 or >12 unles | s noted) | | | | |
| 12. Are matrices correctly identified on Chain | of Custody? | Yes | | | Adjusted? | | | | | |
| 13. Is it clear what analyses were requested? | | Yes Yes | | | Checked by: | | | | | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | | res | | | | | | | | |
| Special Handling (if applicable) | | | | | | | | | | |
| 15. Was client notified of all discrepancies wi | th this order? | Yes | | No | NA 🗹 | | | | | |
| | www.company.com | 105 | | | | | | | | |
| Person Notified: | Date | | | - Far | | | | | | |
| By Whom: Regarding: | Via: | eMai | I _ Phone | Fax | | | | | | |
| Client Instructions: | | Charles and the state of the | 0-07 - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1 | | | | | | | |
| 16. Additional remarks: | | | | | an anomptotenter, a stud | | | | | |
| 17. Cooler Information | | | | | | | | | | |
| Cooler No Temp C Condition | a productive statement and a statement of the statement o | eal Da | te Signi | ed By | | | | | | |
| 1 1.4 Good | Yes | | | | | | | | | |

Client: Blagg Engineering **Project:** GCU 210

Sample ID MB-38882 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 38882 RunNo: 52249 Prep Date: Analysis Date: 6/26/2018 6/26/2018 SeqNo: 1712958 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride ND 1.5 Sample ID LCS-38882 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 38882 RunNo: 52249 Prep Date: 6/26/2018 Analysis Date: 6/26/2018 SeqNo: 1712959 Units: mg/Kg Analyte %REC Result PQL SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 15 1.5 15.00 0 97.3 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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27-Jun-18

| Client: | Blagg Engineering |
|----------|-------------------|
| Project: | GCU 210 |

| | | Concession of the local division of the | the second s | the set with a second set of the second set of the second s | and the second se | and the second se | been to be proposed and the second standard and a | the local data of the local data and the | Construction of the second second second second | and the second se | |
|---------------------------------|--------------------------------------|--|--|---|---|---|---|--|---|---|--|
| Sample ID LCS-38880 | SampTy | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
| Client ID: LCSS | Batch | ID: 38 | 880 | R | RunNo: 52229 | | | | | | |
| Prep Date: 6/26/2018 | Analysis Da | Analysis Date: 6/26/2018 SeqNo: 1711417 Units: mg/Kg | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| I Range Organics (DRO) | 42 | 10 | 50.00 | 0 | 83.5 | 70 | 130 | | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.9 | 70 | 130 | | | | |
| Sample ID MB-38880 | SampTy | me ME | | Tes | | A Method | 8015M/D: Di | sel Range | Organice | | |
| | | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
| Client ID: PBS | Batch | ID: 38 | 880 | R | RunNo: 52 | 2229 | | | | | |
| Prep Date: 6/26/2018 | Analysis Da | ate: 6/ | 26/2018 | S | SeqNo: 1 | 711418 | Units: mg/K | g | | | |
| | | | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Analyte Range Organics (DRO) | Result ND | PQL 10 | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| | warmshought dates and states and and | | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Range Organics (DRO) | ND | 10 | SPK value 10.00 | SPK Ref Val | %REC 101 | LowLimit 70 | HighLimit 130 | %RPD | RPDLimit | Qual | |

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WO#: 1806F18

27-Jun-18

| It: Blagg Engineering | | | | | | | | | | |
|--|---|---|---|--|--|---|--|---|--|--|
|) | | | | | | | | | | |
| SampT | ype: ME | BLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Batch | ID: 38 | 874 | RunNo: 52243 | | | | | | | |
| Prep Date: 6/25/2018 Analysis Date: 6/26/2018 | | | | | | SeqNo: 1712080 Units: mg/Kg | | | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | | | | | | | | | | |
| ND | 5.0 | | | | | | | | | |
| 870 | | 1000 | | 86.8 | 15 | 316 | | | | |
| SampT | ype: LC | S | Tes | tCode: El | PA Method | 8015D: Gaso | line Rang | 9 | | |
| Batch | ID: 38 | 874 | F | tunNo: 5 | 2243 | | | | | |
| Prep Date: 6/25/2018 Analysis Date: 6/26/2018 SeqNo: 1712081 Units | | | | | | | g | | | |
| Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| 28 | 5.0 | 25.00 | 0 | 111 | 75.9 | 131 | | | | |
| 1000 | | 1000 | | 104 | 15 | 316 | | | | |
| | SampT Batch Analysis D Result ND 870 SampT Batch Analysis D Result 28 | SampType: ME Batch ID: 38 Analysis Date: 6/ Result PQL ND 5.0 870 SampType: LC Batch ID: 38 Analysis Date: 6/ Result PQL 28 5.0 | SampType: MBLK Batch ID: 38874 Analysis Date: 6/26/2018 Result PQL SPK value ND 5.0 870 1000 SampType: LCS Batch ID: 38874 Analysis Date: 6/26/2018 Result PQL SPK value 28 5.0 25.00 | SampType: MBLK Tesi Batch ID: 38874 F Analysis Date: 6/26/2018 S Result PQL SPK value SPK Ref Val ND 5.0 1000 S 870 1000 5 Tesi Batch ID: 38874 F S Batch ID: 38874 F S Analysis Date: 6/26/2018 S S Result PQL SPK value SPK Ref Val 28 5.0 25.00 0 | SampType: MBLK TestCode: Eff Batch ID: 38874 RunNo: 52 Analysis Date: 6/26/2018 SeqNo: 12 Result PQL SPK value SPK Ref Val %REC ND 5.0 870 1000 86.8 SampType: LCS TestCode: Eff Batch ID: 38874 RunNo: 52 Analysis Date: 6/26/2018 SeqNo: 17 Result PQL SPK value SPK Ref Val %REC 28 5.0 25.00 0 111 | SampType: MBLK TestCode: EPA Method Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712080 Result PQL SPK value SPK Ref Val %REC LowLimit ND 5.0 38874 Result %REC LowLimit SampType: LCS TestCode: EPA Method Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712081 Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712081 Result PQL SPK value SPK Ref Val %REC LowLimit 28 5.0 25.00 0 111 75.9 | SampType: MBLK TestCode: EPA Method 8015D: Gasc Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712080 Units: mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit ND 5.0 86.8 15 316 SampType: LCS TestCode: EPA Method 8015D: Gasc Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 TestCode: EPA Method 8015D: Gasc Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712081 Units: mg/k Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 28 5.0 25.00 0 111 75.9 131 | SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712080 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD ND 5.0 86.8 15 316 316 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Batch ID: 38874 RunNo: 52243 316 | SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Batch ID: 38874 RunNo: 52243 Analysis Date: 6/26/2018 SeqNo: 1712080 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit ND 5.0 86.8 15 316 1000 86.8 15 316 1000 1000 86.8 15 316 1000 1000 1000 1000 86.8 15 316 10000 1000 10000< | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 4 of 5
- Page

Client: Blagg Engineering

| Project: | GCU | 210 | | | | |
|------------|-----------|----------------|-----------|-----------|----------|---------------------|
| Sample ID | MB-38874 | SampType: | MBLK | TestCode: | EPA Meth | od 8021B: Volatiles |
| Client ID: | PBS | Batch ID: | 38874 | RunNo: | 52243 | |
| Prep Date: | 6/25/2018 | Analysis Date: | 6/26/2018 | SeqNo: | 1712109 | Units: mg/Kg |
| | | | | | | |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 100 | 80 | 120 | | | |
| Sample ID LCS-38874 SampType: LCS TestCode: EPA Method 8021B: Volatiles | | | | | | | | | | |
| Client ID: LCSS | Batcl | n ID: 38 | 874 | F | RunNo: 5 | 2243 | | | | |
| Prep Date: 6/25/2018 | Analysis D | Date: 6/ | 26/2018 | S | SeqNo: 1 | 712110 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.4 | 77.3 | 128 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.1 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.2 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 96.8 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 80 | 120 | | | |

Oualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1806F18

27-Jun-18

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Hall Environmental Albu TEL: 505-345-3975 Website: www.ha | 4901 H iquerque, FAX: 503 | Sam | mple Log-In Check List | | | | |
|--|---|---------------------------------|-----------------|------------------------|--|------------------|--|--|
| Client Name: BLAGG | Work Order Number: | 1806F1 | 8 | | RcptNo: | 1 | | |
| Received By: Anne Thorne | 6/26/2018 7:00:00 AM | | am | u Am | ~ | | | |
| Completed By: Anne Thorne Reviewed By: TO | 6/26/2018 7:30:43 AM G | | Ann | u Am | ~ | | | |
| Labelelby ! AT DG/ZG/R | | | | | | | | |
| Chain of Custody 1. Is Chain of Custody complete? | | Yes 🔽 | P No | | Not Present | | | |
| How was the sample delivered? | | Courier | | | | | | |
| Log In 3. Was an attempt made to cool the samples? | , | Yes 🔽 |] No | | NA 🗌 | | | |
| 4. Were all samples received at a temperature | of >0° C to 6.0°C | Yes 🗹 |] No | | NA 🗌 | | | |
| 5. Sample(s) in proper container(s)? | | Yes 🔽 |] No | | | | | |
| 6. Sufficient sample volume for indicated test(s | 3)? | Yes 🗸 | No | | | | | |
| 7. Are samples (except VOA and ONG) proper | | Yes 🗹 | | | | | | |
| 8. Was preservative added to bottles? | | Yes 🗌 | No | \checkmark | NA | | | |
| 9. VOA vials have zero headspace? | | Yes | No | | No VOA Vials 🗹 | | | |
| 10. Were any sample containers received broke | en? | Yes [| No | | | | | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No | | # of preserved bottles checked for pH: | 12 unless noted) | | |
| 12. Are matrices correctly identified on Chain of | Custody? | Yes 🗸 | No | | Adjusted? | | | |
| 13. Is it clear what analyses were requested? | | Yes 🗸 | No | | | | | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes 🖌 | No | | Checked by: | | | |
| Special Handling (if applicable) | | | | | | | | |
| 15. Was client notified of all discrepancies with | this order? | Yes | No | | NA 🗹 | | | |
| Person Notified: By Whom: Regarding: Client Instructions: | Date Via: |] eMail | Phone |] Fax | In Person | | | |
| 16. Additional remarks: | | | 1) N. 11 (1997) | | | | | |
| 17. Cooler Information | eal Intact Seal No S | eal Date | Signed | By | - | | | |
| 1 1.4 Good Ye | And the second se | Jai Dale | Signed | 29 | | | | |
| Lassandar da anna da a | | | | | I | | | |

Client: Blagg Engineering Project: GCU 210

| Sample ID MB-40701 | SampType: mblk | TestCode: EPA Method | 300.0: Anions | |
|----------------------|--------------------------|---------------------------|------------------|----------------|
| Client ID: PBS | Batch ID: 40701 | RunNo: 54535 | | |
| Prep Date: 10/1/2018 | Analysis Date: 10/1/2018 | SeqNo: 1809390 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| Sample ID LCS-40701 | SampType: Ics | TestCode: EPA Method | 300.0: Anions | |
| Client ID: LCSS | Batch ID: 40701 | RunNo: 54535 | | |
| Prep Date: 10/1/2018 | Analysis Date: 10/1/2018 | SeqNo: 1809391 | Units: mg/Kg | |
| Archite | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Analyte | Result FQL SFR value | SPRINE VAI /SREC LOWLINIL | rightennic /or o | TH DEITIN Guai |

WO#:

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02-Oct-18

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client:Blagg EngineeringProject:GCU 210

| Sample ID LCS-40692 | SampTy | ype: LC | S | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
|--|--------------------------------------|--|-----------------|---|---|----------------|-----------------------------|------------|--|------|
| Client ID: LCSS | Batch | Batch ID: 40692 | | | RunNo: 54 | 4542 | | | | |
| Prep Date: 10/1/2018 | Analysis Da | Analysis Date: 10/1/2018 | | | SeqNo: 1 | 808036 | Units: mg/M | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 86.4 | 70 | 130 | | nin and an and the first of the second of the second second second second second second second second second s | |
| Surr: DNOP | 4.8 | | 5.000 | | 95.6 | 50.6 | 138 | | | |
| | | | | | | | | | | |
| Sample ID MB-40692 | | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
| Cample ID IND-40032 | Samply | pe: ME | BLK | Tes | tCode: El | PA Method | 8015M/D: Di | esel Range | e Organics | |
| Client ID: PBS | | /pe: ME ID: 40 | | | tCode: El RunNo: 54 | | 8015M/D: Di | esel Range | e Organics | |
| | | ID: 40 | | F | | 4542 | 8015M/D: Die Units: mg/M | Ū | e Organics | |
| Client ID: PBS | Batch | ID: 40 | 692)/1/2018 | F | RunNo: 54 | 4542 | | Ū | e Organics RPDLimit | Qual |
| Client ID: PBS Prep Date: 10/1/2018 Analyte | Batch Analysis Da | ID: 40 ate: 10 | 692)/1/2018 | F | RunNo: 54 SeqNo: 11 | 4542 808037 | Units: mg/M | (g | U U | Qual |
| Client ID: PBS Prep Date: 10/1/2018 | Batch Analysis Da Result | ID: 40 ate: 10 PQL | 692)/1/2018 | F | RunNo: 54 SeqNo: 11 | 4542 808037 | Units: mg/M | (g | U U | Qual |
| Client ID: PBS Prep Date: 10/1/2018 Analyte Diesel Range Organics (DRO) | Batch Analysis Da Result ND | ID: 40 ate: 10 PQL 10 | 692)/1/2018 | F | RunNo: 54 SeqNo: 11 | 4542 808037 | Units: mg/M | (g | U U | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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02-Oct-18

Client: Blagg Engineering Project: GCU 210

| | , | | | |
|-------------------------------|--------------------------|---------------------------|-----------------------|---------------|
| Sample ID RB | SampType: MBLK | TestCode: EPA Method | 8015D: Gasoline Range | |
| Client ID: PBS | Batch ID: G54538 | RunNo: 54538 | | |
| Prep Date: | Analysis Date: 10/1/2018 | SeqNo: 1808598 | 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 | 970 1000 | 97.3 15 | 316 | |
| Sample ID 2.5UG GRO LCS | SampType: LCS | TestCode: EPA Method | 8015D: Gasoline Range | |
| Client ID: LCSS | Batch ID: G54538 | RunNo: 54538 | | |
| Prep Date: | Analysis Date: 10/1/2018 | SeqNo: 1808599 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Gasoline Range Organics (GRO) | 26 5.0 25.00 | 0 104 75.9 | 131 | |
| Surr: BFB | 1100 1000 | 110 15 | 316 | |
| Sample ID MB-40666 | SampType: MBLK | TestCode: EPA Method | 8015D: Gasoline Range | |
| Client ID: PBS | Batch ID: 40666 | RunNo: 54538 | | |
| Prep Date: 9/28/2018 | Analysis Date: 10/1/2018 | SeqNo: 1808626 | Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: BFB | 920 1000 | 92.3 15 | 316 | |
| Sample ID LCS-40666 | SampType: LCS | TestCode: EPA Method | 8015D: Gasoline Range | |
| Client ID: LCSS | Batch ID: 40666 | RunNo: 54538 | | |
| Prep Date: 9/28/2018 | Analysis Date: 10/1/2018 | SeqNo: 1808627 | Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: BFB | 1100 1000 | 108 15 | 316 | |
| | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Blagg Engineering Project: GCU 210

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|--|---|--------------------------------|---------------|-----------|--|--|-----------|---|------|----------|------|
| Sample ID | RB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBS | Batch | ID: B5 | 4538 | F | RunNo: 5 | 4538 | | | | |
| Prep Date: | | Analysis D | ate: 10 | /1/2018 | S | SeqNo: 1 | 808634 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | ND | 0.025 | | | | | | | | |
| Toluene | | ND | 0.050 | | | | | | | | |
| Ethylbenzene | | ND | 0.050 | | | | | | | | |
| Xylenes, Total | | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromo | ofluorobenzene | 0.96 | | 1.000 | | 95.5 | 80 | 120 | | | |
| Sample ID 4 | 100NG BTEX LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: I | LCSS | Batch | ID: B5 | 4538 | R | anNo: 5 | 4538 | | | | |
| Prep Date: | | Analysis D | ate: 10 | /1/2018 | S | eqNo: 1 | 808635 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.91 | 0.025 | 1.000 | 0 | 91.4 | 77.3 | 128 | | | |
| Toluene | | 0.94 | 0.050 | 1.000 | 0 | 94.3 | 79.2 | 125 | | | |
| Ethylbenzene | | 0.92 | 0.050 | 1.000 | 0 | 92.1 | 80.7 | 127 | | | |
| Xylenes, Total | | 2.8 | 0.10 | 3.000 | 0 | 93.2 | 81.6 | 129 | | | |
| Surr: 4-Bromo | ofluorobenzene | 0.95 | | 1.000 | and the second | 95.2 | 80 | 120 | | | |
| Sample ID | MB-40666 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: | PBS | Batch | ID: 406 | 666 | F | anNo: 5 | 4538 | | | | |
| Prep Date: | 9/28/2018 | Analysis D | ate: 10 | /1/2018 | S | SeqNo: 1 | 808662 | Units: %Rec | : | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromo | ofluorobenzene | 0.90 | | 1.000 | | 90.5 | 80 | 120 | | | |
| Sample ID | LCS-40666 | SampT | ype: LC | S | Test | tCode: El | PA Method | 8021B: Volat | iles | | |
| Client ID: I | LCSS | Batch | ID: 406 | 666 | F | anNo: 5 | 4538 | | | | |
| Prep Date: | 9/28/2018 | Analysis D | ate: 10 | /1/2018 | S | eqNo: 1 | 808665 | Units: %Rec | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromo | ofluorobenzene | 0.93 | | 1.000 | | 93.1 | 80 | 120 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: **1809H96**

02-Oct-18

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | Ai TEL: 505-345-39 | al Analysis Laborato 4901 Hawkins N Ibuquerque, NM 871 75 FAX: 505-345-41 hallenvironmental.co | os Sam | aple Log-In Check List |
|---|---|--|---------------|--|
| Client Name: BLAGG | Work Order Numbe | er: 1809H96 | | RcptNo: 1 |
| Received By: Victoria Zellar | 9/29/2018 10:05:00 A | AM. | Victoria Gell | a |
| Completed By: Ashley Gallegos | 9/29/2018 10:34:38 / | M | AZ | |
| Reviewed By: | 10/01/18 | labele | d by | 1 AT 10/01/13 |
| Chain of Custody | | | | |
| 1. Is Chain of Custody complete? | | Yes 🗹 | No 🗌 | Not Present |
| 2. How was the sample delivered? | | Courier | | |
| Log In 3. Was an attempt made to cool the sample | es? | Yes 🗹 | No 🗌 | NA 🗆 |
| 4. Were all samples received at a temperat | ure of >0° C to 6.0°C | Yes 🖌 | No 🗌 | NA 🗌 |
| 5. Sample(s) in proper container(s)? | | Yes 🗹 | No 🗌 | |
| 6. Sufficient sample volume for indicated te | st(s)? | Yes 🗹 | No 🗌 | |
| 7. Are samples (except VOA and ONG) pro | | Yes 🗹 | No 🗌 | |
| 8. Was preservative added to bottles? | a | Yes | No 🗹 | NA 🗌 |
| 9. VOA vials have zero headspace? | | Yes | No 🗌 | No VOA Vials 🗹 |
| 10. Were any sample containers received br | oken? | Yes | No 🗹 | # of preserved |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | | Yes 🗹 | No 🗌 | bottles checked for pH: (<2 or >12 unless noted) |
| 12. Are matrices correctly identified on Chain | of Custody? | Yes 🗹 | No 🗌 | Adjusted? |
| 13. Is it clear what analyses were requested? | > | Yes 🗹 | No 🗌 | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | | Yes 🗹 | No 🗌 | Checked by: |
| Special Handling (if applicable) | | | | |
| 15. Was client notified of all discrepancies w | with this order? | Yes | No 🗌 | NA 🗹 |
| Person Notified: By Whom: Regarding: Client Instructions: | Date Via: | 🗌 eMail 🛄 Pho | one 🗌 Fax | In Person |
| 16. Additional remarks: | rentfilles in the filler of the filler of the | an antar yen 1979 - 13 | • f | an BAR Ken AN PRAY A LAND |
| 17. <u>Cooler Information</u> Cooler No Temp °C Condition 1 5.1 Good | Seal Intact Seal No Yes | Seal Date S | Signed By | |

Client:Blagg EngineeringProject:GCU 210

| Sample ID MB-40919 | SampType: mblk | TestCode: EPA Method | 300.0: Anions | |
|-----------------------|---------------------------|---------------------------|----------------|---------------|
| Client ID: PBS | Batch ID: 40919 | RunNo: 54772 | | |
| Prep Date: 10/10/2018 | Analysis Date: 10/10/2018 | SeqNo: 1819699 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| Sample ID LCS-40919 | SampType: Ics | TestCode: EPA Method | 300.0: Anions | |
| Client ID: LCSS | Batch ID: 40919 | RunNo: 54772 | | |
| Prep Date: 10/10/2018 | Analysis Date: 10/10/2018 | SeqNo: 1819700 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | 15 1.5 15.00 | 0 97.6 90 | 110 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

n range

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WO#: 1810554 11-Oct-18

Client: Blagg Engineering Project: GCU 210

| Project: GCU 21 | 10 | | | |
|--|---|--|-------------------------------------|---------------|
| Sample ID LCS-40881 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range | Organics |
| Client ID: LCSS | Batch ID: 40881 | RunNo: 54737 | | |
| Prep Date: 10/8/2018 | Analysis Date: 10/9/2018 | SeqNo: 1817245 | Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: DNOP | 5.6 5.000 | 112 50.6 | 138 | |
| Sample ID MB-40881 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range | Organics |
| Client ID: PBS | Batch ID: 40881 | RunNo: 54737 | | |
| Prep Date: 10/8/2018 | Analysis Date: 10/9/2018 | SeqNo: 1817246 | Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Surr: DNOP | 11 10.00 | 106 50.6 | 138 | |
| Sample ID LCS-40918 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range | Organics |
| Client ID: LCSS | Batch ID: 40918 | RunNo: 54737 | | |
| Prep Date: 10/10/2018 | Analysis Date: 10/10/2018 | SeqNo: 1818793 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Range Organics (DRO) | 46 10 50.00 | 0 92.3 70 | 130 | |
| Surr: DNOP | 4.8 5.000 | 96.6 50.6 | 138 | |
| Sample ID MB-40918 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range | Organics |
| Client ID: PBS | Batch ID: 40918 | RunNo: 54737 | | |
| Prep Date: 10/10/2018 | Analysis Date: 10/10/2018 | SeqNo: 1818794 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Range Organics (DRO) | ND 10 | | | |
| Motor Oil Range Organics (MRO) | ND 50 | 100 50.0 | 100 | |
| Surr: DNOP | 11 10.00 | 106 50.6 | 138 | |
| Sample ID 1810554-006AMS | S SampType: MS | TestCode: EPA Method | 8015M/D: Diesel Range | Organics |
| Client ID: North Wall (East | t Hal Batch ID: 40918 | RunNo: 54737 | | |
| Prep Date: 10/10/2018 | Analysis Date: 10/10/2018 | SeqNo: 1819058 | Units: mg/Kg | |
| Analyte | - | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| the state of the | Result PQL SPK value | SFR Rei vai 78REC LOWLINII | HighLimit %RPD | RPDLimit Qual |
| Diesel Range Organics (DRO) | 50 9.8 49.12 | 0 103 53.5 | 126 | RFDLinit Quai |
| and the second | | | | RFDLIMIt Quai |
| Diesel Range Organics (DRO) | 50 9.8 49.12 5.3 4.912 | 0 103 53.5 | 126 138 | |
| Diesel Range Organics (DRO) Surr: DNOP Sample ID 1810554-006AMS | 50 9.8 49.12 5.3 4.912 SD SampType: MSD | 0 103 53.5 109 50.6 | 126 138 | |
| Diesel Range Organics (DRO) Surr: DNOP Sample ID 1810554-006AMS | 50 9.8 49.12 5.3 4.912 SD SampType: MSD | 0 103 53.5 109 50.6 TestCode: EPA Method | 126 138 | |
| Diesel Range Organics (DRO) Surr: DNOP Sample ID 1810554-006AMS Client ID: North Wall (East | 50 9.8 49.12 5.3 4.912 SD SampType: MSD t Hal Batch ID: 40918 Analysis Date: 10/10/2018 | 0 103 53.5 109 50.6 TestCode: EPA Method RunNo: 54737 | 126 138 8015M/D: Diesel Range | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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| QC SUMMARY REPORT |
|--|
| Hall Environmental Analysis Laboratory, Inc. |

Client: Blagg Engineering **Project:** GCU 210

| Sample ID | 1810554-006AMSD | SampTy | be: M | SD | Test | Code: E | PA Method | 8015M/D: Die | esel Range | e Organics | |
|------------|---------------------|-------------|-------|-----------|-------------|---------|-----------|--------------|------------|------------|------|
| Client ID: | North Wall (East Ha | al Batch I | D: 40 | 918 | R | unNo: 5 | 4737 | | | | |
| Prep Date: | 10/10/2018 | Analysis Da | e: 1 | 0/10/2018 | S | eqNo: 1 | 819059 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | | 5.3 | | 4.845 | | 109 | 50.6 | 138 | 0 | 0 | |

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Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1810554 11-Oct-18

Client: Project:

Blagg Engineering GCU 210

| Project: 000 210 |) | | | | | | | | |
|--|---------------------------------|--|-------------|------------------------|------------------|------------------|--------------|----------------|------|
| Sample ID 2.5UG GRO LCS | SampType: LO | cs | Tes | tCode: EF | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: LCSS | Batch ID: G | 54774 | F | RunNo: 54 | 4774 | | | | |
| Prep Date: | Analysis Date: 1 | 0/10/2018 | 5 | SeqNo: 18 | 819348 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 27 5.0 | 25.00 | 0 | 109 | 75.9 | 131 | | | |
| Surr: BFB | 1100 | 1000 | | 107 | 15 | 316 | | | |
| Sample ID LCS-40909 | SampType: LC | CS | Tes | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: LCSS | Batch ID: 40 | 909 | F | RunNo: 54 | 4774 | | | | |
| Prep Date: 10/9/2018 | Analysis Date: 1 | 0/10/2018 | 5 | SeqNo: 18 | 819349 | Units: %Re | C | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1100 | 1000 | | 105 | 15 | 316 | | | |
| Sample ID MB-40909 | SampType: M | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: PBS | Batch ID: 40 | 909 | F | RunNo: 54 | 4774 | | | | |
| Prep Date: 10/9/2018 | Analysis Date: 1 | 0/10/2018 | 5 | SeqNo: 18 | 819350 | Units: %Re | C | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 900 | 1000 | | 89.8 | 15 | 316 | | | |
| Sample ID RB | SampType: M | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: PBS | Batch ID: G | 54774 | F | RunNo: 54 | 4774 | | | | |
| Prep Date: | Analysis Date: 1 | 0/10/2018 | 5 | SeqNo: 18 | 819353 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0 | | | 00.0 | 45 | 240 | | | |
| Surr: BFB | 860 | 1000 | | 86.2 | 15 | 316 | | | |
| Sample ID 1810554-001A MS | SampType: M | S | Tes | tCode: EF | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: Base #1 (South) | Batch ID: G | | F | RunNo: 54 | 4774 | | | | |
| Prep Date: | Analysis Date: 1 | 0/10/2018 | 5 | SeqNo: 18 | 819423 | Units: mg/K | g | | |
| Analyte | Result PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | 21 4.3 880 | 21.42 856.9 | 0 | 98.7 102 | 77.8 15 | 128 316 | | | |
| | | | | | | | | | |
| Sample ID 1810554-001A MS | | | | | | 8015D: Gaso | line Rang | e | |
| Client ID: Base #1 (South) Prep Date: | Batch ID: G Analysis Date: 1 | | | RunNo: 54 SeqNo: 18 | | Units: mg/K | a | | |
| | , | | | | | 0 | 0 | | 0 |
| Analyte Gasoline Range Organics (GRO) | Result PQL 20 4.3 | the second s | SPK Ref Val | %REC 95.6 | LowLimit 77.8 | HighLimit 128 | %RPD 3.21 | RPDLimit 20 | Qual |
| Surr: BFB | 860 | 856.9 | 0 | 100 | 15 | 316 | 0 | 0 | |
| | | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range Reporting Detection Limit RL

Р

- Sample container temperature is out of limit as specified W

- Page 10 of 12

Client: Blagg Engineering

GCU 210

Project:

| | Troject. | 000 210 | | | | and the second second second second | | | | | | |
|---|----------------|------------------|-------------|---------------|-----------|-------------------------------------|-----------|-----------|--------------|------|----------|------|
| Prep Date: Analysis Date: 101/0/2018 Seq.No: 18194-38 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLimit Qual Benzme 0.94 0.025 1.000 0 94.4 77.3 125 Entytemazane 1.0 0.050 1.000 0 101 80.7 127 Xytenes, Total 3.0 0.10 3.000 0 101 80.7 127 Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Units: mg/Kg Analyte Result POL SPK value SPK Ref Val %REC LowLinit HighLinit %RPD RPDLimit Qual Benzene 0.70 0.0176 91.0 68.5 133 Encytemazane Q.74 0.038 0.7576 101 80 120 Encytemazane 120 Encytemazane | Sample ID | 100NG BTEX LCS | SampTy | pe: LC | S | Test | tCode: El | PA Method | 8021B: Volat | iles | | |
| Analyte Result PQL SPK value SPK Ref Val % REC LowLinit HighLinit % RPD RPDLinit Qual Benzne 0.94 0.025 1.000 0 94.4 77.3 128 Toluene 1.0 0.050 1.000 0 99.9 79.2 125 Ellybenzene 1.0 0.050 1.000 0 101 80.7 127 Xjenes, Tolai 3.0 0.10 3.000 0 101 80 129 Sample ID 1810554-002.A MS SampType: MS TestCode: EPA Method 8021B: Volatiles | Client ID: L | _CSS | Batch | ID: 85 | 4774 | R | tunNo: 5 | 4774 | | | | |
| Benzzne 0.94 0.025 1.000 0 94.4 77.3 128 Toluene 1.0 0.050 1.000 0 99.9 79.2 125 Ethylbanzane 1.0 0.050 1.000 101 80.7 127 Xylenes, Total 3.0 0.10 3.000 0 101 80.7 127 Sam, Harmonfluorobenzene 1.0 1.000 101 80.7 127 Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles 1000 Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles 1000 Analyte Result POL SPK value SPK Ref Val %REC Low/Limit High-Imit Qual Benzene 0.70 0.019 0.7576 0.01076 91.0 68.5 133 Toluene 0.75 0.038 0.7576 0.01076 98.4 77.3 131 Sum-4 Bronofluorobenzene 0.76 <t< td=""><td>Prep Date:</td><td></td><td>Analysis Da</td><td>ate: 10</td><td>)/10/2018</td><td>S</td><td>eqNo: 1</td><td>819438</td><td>Units: mg/K</td><td>g</td><td></td><td></td></t<> | Prep Date: | | Analysis Da | ate: 10 |)/10/2018 | S | eqNo: 1 | 819438 | Units: mg/K | g | | |
| Toluene 1.0 0.050 1.000 0 99.9 79.2 125 Enyleenzene 1.0 0.050 1.000 0 101 80.7 127 Sur: 4-Bromofluorobenzene 1.0 0.050 1.000 0 101 80.7 127 Sur: 4-Bromofluorobenzene 1.0 1.000 101 80 120 101 Sur: 4-Bromofluorobenzene 1.0 1.000 101 80 120 101 Sur: 4-Bromofluorobenzene 1.0 1.000 101 80 120 101 201 Sur: 4-Bromofluorobenzene 1.0 1010/02018 SeqNo: 1819467 1018: mg/Kg 101 201 Analyte Result PQL SPK Ref Val %REC Lowlinit Highlinit %RPD RPDLimit Qual Benzene 0.70 0.757 0.0176 0.017652 98.0 75 130 131 120 120 120 120 120 120 120 120 120 120 120 120 120 120 120 <td< td=""><td>Analyte</td><td></td><td>Result</td><td>PQL</td><td>SPK value</td><td>SPK Ref Val</td><td>%REC</td><td>LowLimit</td><td>HighLimit</td><td>%RPD</td><td>RPDLimit</td><td>Qual</td></td<> | Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Ethylbanzene 1.0 0.050 1.000 0 101 80.7 127 Symte-Bronofluorobenzene 1.00 1.000 0101 81.6 129 Sum: 4-Bronofluorobenzene 1.000 0101 80 120 Sample ID 1810554-002 MS Samply: MS TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54/TZ RunNo: 54774 Units: mg/Kg Analyte Result PQL SYK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.70 0.019 0.7576 0.01076 91.0 68.5 133 Toluene 0.75 0.038 0.7576 0 98.2 77.3 131 Surr 4-Bronofluorobenzene 0.76 0.0176 91.0 80 120 U Sample ID 1810554-002A MSD SampType: MST TestCode: EPA Method 8021B: Volatiles U Client ID: Base #2 (Mid) Batch ID: ByfK Ref Val %REC Mathod 80.5 133 <t< td=""><td>Benzene</td><td></td><td>0.94</td><td>0.025</td><td>1.000</td><td>0</td><td>94.4</td><td>77.3</td><td>128</td><td></td><td></td><td></td></t<> | Benzene | | 0.94 | 0.025 | 1.000 | 0 | 94.4 | 77.3 | 128 | | | |
| Sylenes, Total 3.0 0.10 3.000 0 101 81.6 129 Sum: 4-Bromofluorobenzene 1.0 1.000 101 80 120 Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B4774 Runko: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819467 Units: mg/Kg Analyte Result POL SPK value NT NT Qual Benzene 0.76 0.038 0.7576 0 98.2 79.4 128 Xjenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Suri - Abromofluorobenzene 0.76 0.7576 101 80 120 Volatiles Client ID: Base #2 (Mid) Batch ID: B4774 Runko: 54774 RPD RPDLimit Qual < | Toluene | | 1.0 | 0.050 | 1.000 | 0 | 99.9 | 79.2 | 125 | | | |
| Surr. 4-Bromofulozobenzene 1.0 1.000 101 80 120 Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Units: mg/Kg Analysis Date: 10/10/2018 SeqNo: 1819467 Units: mg/Kg Analysis Date: 10/10/2018 SeqNo: 1819467 Units: mg/Kg Analysis Date: 00.019 0.7576 0.01076 91.0 68.5 133 Benzene 0.70 0.019 0.7576 0.98.2 79.4 128 Sylenes 0.74 0.038 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 128 20 Client ID: Base #2 (Mid) Batch ID: </td <td>Ethylbenzene</td> <td></td> <td>1.0</td> <td>0.050</td> <td>1.000</td> <td>0</td> <td>101</td> <td>80.7</td> <td>127</td> <td></td> <td></td> <td></td> | Ethylbenzene | | 1.0 | 0.050 | 1.000 | 0 | 101 | 80.7 | 127 | | | |
| Sample ID 1810554-002A MS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B4tch ID: B4tch ID: B4tch ID: Base #2 (Mid) Batch ID: B4tch ID: | Xylenes, Total | | 3.0 | 0.10 | 3.000 | 0 | 101 | 81.6 | 129 | | | |
| Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819467 Units: mg/Kg Analyte Result PQL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.70 0.019 0.7576 0.007652 98.0 75 130 Ethylbenzene 0.74 0.038 0.7576 0 98.3 77.3 131 Surr. 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual <t< td=""><td>Surr: 4-Bromo</td><td>fluorobenzene</td><td>1.0</td><td></td><td>1.000</td><td></td><td>101</td><td>80</td><td>120</td><td></td><td></td><td></td></t<> | Surr: 4-Bromo | fluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |
| Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819467 Units: mg/Kg Analyte Result POL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.70 0.019 0.7576 0.007652 98.0 75 130 Etnybenzene 0.74 0.038 0.7576 0 98.2 79.4 128 Kylenes, Total 2.2 0.076 2.73 0 98.3 77.3 131 Surr: 4-Bromofluorobenzene 0.76 0.7576 101 80 120 101 <td>Sample ID *</td> <td>1810554-002A MS</td> <td>SampTy</td> <td>ype: MS</td> <td>3</td> <td>Test</td> <td>tCode: El</td> <td>PA Method</td> <td>8021B: Volat</td> <td>iles</td> <td></td> <td></td> | Sample ID * | 1810554-002A MS | SampTy | ype: MS | 3 | Test | tCode: El | PA Method | 8021B: Volat | iles | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.70 0.019 0.7576 0.01076 91.0 68.5 133 Toluene 0.74 0.038 0.7576 0 98.2 79.4 128 Kylenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Surr: 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Volatiles Volatiles Prep Date: Analyts Det 101/02018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 | Client ID: | Base #2 (Mid) | Batch | ID: B5 | 4774 | F | tunNo: 5 | 4774 | | | | |
| Benzene 0.70 0.019 0.7576 0.0176 91.0 68.5 133 Toluene 0.75 0.038 0.7576 0 98.2 79.4 128 Ethylbenzene 0.74 0.038 0.7576 0 98.2 79.4 128 Sylenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Surr. 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.007652 95.7 75 130 2.35 20 Toluene 0.73 0.038 0.7576 | Prep Date: | | Analysis Da | ate: 10 |)/10/2018 | S | eqNo: 1 | 819467 | Units: mg/K | g | | |
| Toluene 0.75 0.038 0.757 0.007652 98.0 75 130 Ehylenazene 0.74 0.038 0.7576 0 98.2 79.4 128 Xylenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Surr 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-0024 MSD Samp Type: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 101/0/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0 96.7 77.5 130 2.35 20 Styres, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Sum: 4-Bromofluorobenzene 0.767 < | Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Ethybenzene 0.74 0.038 0.7576 0 98.2 79.4 128 Xylenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Surr: 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0 96.7 7.7 130 2.35 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Surr: 4-Bromofluorobenzene 0.76 | Benzene | | 0.70 | 0.019 | 0.7576 | 0.01076 | 91.0 | 68.5 | 133 | | | |
| Xylenes, Total 2.2 0.076 2.273 0 98.3 77.3 131 Surr. 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.00176 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Symthes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Symthes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 0 0 | Toluene | | 0.75 | 0.038 | 0.7576 | 0.007652 | 98.0 | 75 | 130 | | | |
| Surr. 4-Bromofluorobenzene 0.76 0.7576 101 80 120 Sample ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 101/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0 96.4 79.4 128 1.92 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr. 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Surr. 4-Br | Ethylbenzene | | 0.74 | 0.038 | 0.7576 | 0 | 98.2 | 79.4 | 128 | | | |
| TestCode: EPA Method 8021B: Volatiles Samply ID 1810554-002A MSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.01076 89.4 79.4 128 1.92 20 Sylnes. Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 | Xylenes, Total | | 2.2 | 0.076 | 2.273 | 0 | 98.3 | 77.3 | 131 | | | |
| Client ID: Base #2 (Mid) Batch ID: B54774 RunNo: 54774 Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.9676 77.5 130 2.35 20 Kylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles Volatiles Client ID: LCSS Batch ID: 40909 RunNo: 54774 Volatiles Volatiles Volatiles Volatiles Volatiles Volatiles Volatiles Volatiles | Surr: 4-Bromo | ofluorobenzene | 0.76 | | 0.7576 | | 101 | 80 | 120 | | | |
| Prep Date: Analysis Date: 10/10/2018 SeqNo: 1819468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Ethylbenzene 0.73 0.038 0.7576 0 96.4 79.4 128 1.92 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 40909 Rendu %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: | Sample ID ' | 1810554-002A MSI | D SampTy | ype: MS | \$D | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Ethylbenzene 0.73 0.038 0.7576 0 96.4 79.4 128 1.92 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 | Client ID: I | Base #2 (Mid) | Batch | ID: 85 | 4774 | F | unNo: 5 | 4774 | | | | |
| Benzene 0.69 0.019 0.7576 0.01076 89.4 68.5 133 1.68 20 Toluene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Ethylbenzene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 40909 RunNo: 54774 Vertail | Prep Date: | | Analysis Da | ate: 10 |)/10/2018 | S | SeqNo: 1 | 819468 | Units: mg/K | g | | |
| Toluene 0.73 0.038 0.7576 0.007652 95.7 75 130 2.35 20 Ethylbenzene 0.73 0.038 0.7576 0 96.4 79.4 128 1.92 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles | Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Ethylbenzene 0.73 0.038 0.7576 0 96.4 79.4 128 1.92 20 Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 40909 RunNo: 54774 Volatiles Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819469 Units: %Rec Analyte Result PQL SPK value SPK Kef Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 Volatiles Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 40909 RunNo: 54774 <td< td=""><td>Benzene</td><td></td><td>0.69</td><td>0.019</td><td>0.7576</td><td>0.01076</td><td>89.4</td><td>68.5</td><td>133</td><td>1.68</td><td>20</td><td></td></td<> | Benzene | | 0.69 | 0.019 | 0.7576 | 0.01076 | 89.4 | 68.5 | 133 | 1.68 | 20 | |
| Xylenes, Total 2.2 0.076 2.273 0 96.7 77.3 131 1.61 20 Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 40909 RunNo: 54774 Volatiles Volatiles Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819469 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 Volatiles Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Toluene | | 0.73 | 0.038 | 0.7576 | 0.007652 | 95.7 | 75 | 130 | 2.35 | 20 | |
| Surr: 4-Bromofluorobenzene 0.76 0.7576 99.8 80 120 0 0 Sample ID LCS-40909 SampType: LCS TestCode: EPA Method 8021B: Volatiles 0 | Ethylbenzene | | 0.73 | 0.038 | 0.7576 | 0 | 96.4 | 79.4 | 128 | 1.92 | 20 | |
| Sample IDLCSTestCode:EPA Method 8021B:VolatilesClient ID:LCSSBatch ID:40909RunNo:54774Prep Date:10/9/2018Analysis Date:10/10/2018SeqNo:1819469Units:%RecAnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualSurr: 4-Bromofluorobenzene0.991.00098.680120120Sample IDMB-40909SampType:MBLKTestCode:EPA Method 8021B:VolatilesClient ID:PBSBatch ID:40909RunNo:54774Prep Date:10/9/2018Analysis Date:10/10/2018SeqNo:1819470Units:%Rec | Xylenes, Total | | 2.2 | 0.076 | 2.273 | 0 | 96.7 | 77.3 | 131 | 1.61 | 20 | |
| Client ID: LCSS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819469 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 | Surr: 4-Bromo | ofluorobenzene | 0.76 | | 0.7576 | | 99.8 | 80 | 120 | 0 | 0 | |
| Prep Date: 10/9/2018 SeqNo: 1819469 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 120 Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Volatiles Client ID: PBS Batch ID: 40909 RunNo: 54774 Vinits: %Rec Vinits: %Rec | Sample ID | LCS-40909 | SampTy | ype: LC | s | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Sur: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 120 120 Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles 120 Client ID: PBS Batch ID: 40909 RunNo: 54774 120 120 120 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Client ID: | LCSS | Batch | ID: 40 | 909 | F | tunNo: 5 | 4774 | | | | |
| Surr: 4-Bromofluorobenzene 0.99 1.000 98.6 80 120 Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Prep Date: | 10/9/2018 | Analysis Da | ate: 10 |)/10/2018 | S | SeqNo: 1 | 819469 | Units: %Red | : | | |
| Sample ID MB-40909 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Client ID: PBS Batch ID: 40909 RunNo: 54774 Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Surr: 4-Bromo | ofluorobenzene | 0.99 | | 1.000 | | 98.6 | 80 | 120 | | | |
| Prep Date: 10/9/2018 Analysis Date: 10/10/2018 SeqNo: 1819470 Units: %Rec | Sample ID | MB-40909 | SampTy | ype: ME | 3LK | Tes | tCode: E | PA Method | 8021B: Volat | iles | | |
| | Client ID: I | PBS | Batch | ID: 40 | 909 | F | RunNo: 5 | 4774 | | | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Prep Date: | 10/9/2018 | Analysis Da | ate: 10 |)/10/2018 | S | eqNo: 1 | 819470 | Units: %Red | ; | | |
| | | | | | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1810554

11-Oct-18

Client: Blagg Engineering Project: GCU 210

| | | the second s | state of the state | | | | Contraction of the second second second second | | | |
|----------------------------|------------|--|--|-------------|----------|-----------|--|-------|----------|------|
| Sample ID MB-40909 | SampT | ype: ME | BLK | Test | Code: El | PA Method | 8021B: Volat | tiles | | |
| Client ID: PBS | Batch | 1D: 40 | 909 | R | unNo: 54 | 4774 | | | | |
| Prep Date: 10/9/2018 | Analysis D | ate: 10 |)/10/2018 | S | eqNo: 1 | 819470 | Units: %Red | C | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.6 | 80 | 120 | | | |
| Sample ID RB | SampT | ype: ME | BLK | Test | Code: El | PA Method | 8021B: Volat | tiles | | |
| Client ID: PBS | Batch | n ID: B5 | 4774 | R | unNo: 54 | 4774 | | | | |
| Prep Date: | Analysis D | ate: 10 | 0/10/2018 | S | eqNo: 1 | 819471 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.8 | 80 | 120 | | | |

Qualifiers:

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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1810554 11-Oct-18

| HALL ENVIRONMENTAL ANALYSIS LABORATORY | ilal! Environmental A Albuq TEL: 505-345-39254 Webute: www.hall | 490 werq A.S. |] Hawkins N uz. NM 8770 5625-345-411 | san San | nple Log-In (| Check List |
|--|---|---------------------|---|------------------------------|---|------------------|
| Client Name BLAGG | Work Order Number: | 1810 | 0554 | | RootNo | 1 1 |
| Received By: Victoria Zellar | 10/10/2018 8:00:00 AM | | | Victoria G | | |
| Completed By: Erin Melendrez | 10/10/2018 8 40.52 AM | | 1 | it and | 5 | |
| Reviewed By: AT 10110/18 LB: ENM 10/10/18 Chain of Custody | | | | | | |
| 1. Is Chain of Custody complete? | | Yes | 1 | No | Not Present | |
| 2. How was the sample delivered? | 1 | Cou | ier | | | |
| Log In 3. Was an attempt made to cool the samples? | ; | Yes | 2 | No 🗌 | NA [] | |
| 4. Wore all samples received at a temperature of | >0° C to 6.0°C | Yes | ~ | No | NA | |
| 5. Sample(s) in proper container(s)? | , | Yes | | No | | |
| 6, Sufficient sample volume for indicated test(s)? | 1 | íes | V | No 🗌 | | |
| 7. Are samples (except VOA and ONG) properly p | preserved? | les | \checkmark | No 🛄 | | |
| 8. Was preservative added to bottles? | ` | les | 0 | No V | NA 🗌 | |
| 9. VOA vials have zero headspace? | , | es | | No LI | No VOA Viais 🗹 | |
| Were any sample containers received breken? | | Yes | | No 🚩 | # of prese/ved bottles checked | -115 |
| Does paperwork match bottle labels? (Note discrepancies on chain of custody) | 1 | (es | \checkmark | No 🗌 | bottles checked for pH: | 12 Unless noted) |
| 2 Are matrices correctly identified on Chain-of Cu | stody? | 185 | N | No | Adjusted | |
| 3. Is it clear what analyses were requested? | | /es | ~ | No 🗌 | Y Y | |
| Were all holding times able to be met? (If no, notify customer for authorization) | ` | 88 | \checkmark | No LI | Chocked by: | |
| Special Handling (if applicable) | | | | | | |
| 15. Was client notified of all discrepancies with the | s order? | Yes | | No M | NA 🗸 | |
| Person Notified. | Date | | | | | |
| By Whom | Via: | eMa | ii Pho | ne 🗌 Fax | In Person | |
| Regarding: | | (monething) | and any for the second of the second | and the second second second | | |
| Client Instructions: | ere under an flest antien die des Mittelen Under Kalender viel ein Kalender in gesterpropie des antie ein aus | | | | Madd Mahda Mahada da an an Anna | |
| 16. Additional remarks. | | | | | | |
| 17 <u>Cooler Information</u> <u>Cooler No Temp "C Condition Seal</u> 1 1.1 Good Yes | Intact Seal No Se | al Di | ate S | gned By | - | |

Client:Blagg EngineeringProject:GCU #210

| ent: | Blagg | Enginee | ring | |
|------|-------|---------|------|--|

| 110jeet. 000 #2 | | | | | | | | |
|-----------------------|---------------------------|---------------------------|------------------------------------|---------------|--|--|--|--|
| Sample ID MB-41001 | SampType: mblk | TestCode: EPA Method | TestCode: EPA Method 300.0: Anions | | | | | |
| Client ID: PBS | Batch ID: 41001 | RunNo: 54867 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1824301 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Chloride | ND 1.5 | | | | | | | |
| Sample ID LCS-41001 | SampType: Ics | TestCode: EPA Method | 300.0: Anions | | | | | |
| Client ID: LCSS | Batch ID: 41001 | RunNo: 54867 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1824302 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual | | | | |
| Chloride | 14 1.5 15.00 | 0 93.4 90 | 110 | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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1810786 16-Oct-18

WO#:

Client: Blagg Engineering

GCU #210 **Project:**

| 3 | | | | and whether the second second second | | | | |
|--|---------------------------|---------------------------|-----------------------------|--------------------------------------|--|--|--|--|
| Sample ID 1810786-002AM | S SampType: MS | TestCode: EPA Method | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: North Wall (Wes | st Ha Batch ID: 40997 | RunNo: 54866 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1823532 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLi | imit Qual | | | | |
| I Range Organics (DRO) | 85 9.6 48.22 | 29.28 116 53.5 | 126 | | | | | |
| Surr: DNOP | 4.5 4.822 | 94.3 50.6 | 138 | | | | | |
| Sample ID 1810786-002AM | SD SampType: MSD | TestCode: EPA Method | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: North Wall (Wes | st Ha Batch ID: 40997 | RunNo: 54866 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1823533 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLi | imit Qual | | | | |
| Diesel Range Organics (DRO) | 83 9.7 48.50 | 29.28 110 53.5 | | 1.7 | | | | |
| Surr: DNOP | 4.6 4.850 | 94.4 50.6 | 138 0 | 0 | | | | |
| Sample ID LCS-40997 | SampType: LCS | TestCode: EPA Method | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: LCSS | Batch ID: 40997 | RunNo: 54866 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1823538 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLi | imit Qual | | | | |
| I Range Organics (DRO) | 41 10 50.00 | 0 82.9 70 | 130 | | | | | |
| Surr: DNOP | 4.5 5.000 | 90.9 50.6 | 138 | | | | | |
| Sample ID MB-40997 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: PBS | Batch ID: 40997 | RunNo: 54866 | | | | | | |
| Prep Date: 10/15/2018 | Analysis Date: 10/15/2018 | SeqNo: 1823539 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLi | mit Qual | | | | |
| Diesel Range Organics (DRO) | ND 10 | | | | | | | |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND 50 9.2 10.00 | 92.0 50.6 | 138 | | | | | |
| | 0.2 10.00 | 92.0 90.0 | 100 | | | | | |
| Sample ID LCS-40976 | SampType: LCS | | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: LCSS | Batch ID: 40976 | RunNo: 54866 | | | | | | |
| Prep Date: 10/12/2018 | Analysis Date: 10/15/2018 | SeqNo: 1824398 | Units: %Rec | | | | | |
| Analyte | | SPK Ref Val %REC LowLimit | 0 | imit Qual | | | | |
| Surr: DNOP | 4.6 5.000 | 92.7 50.6 | 138 | | | | | |
| Sample ID MB-40976 | SampType: MBLK | TestCode: EPA Method | 8015M/D: Diesel Range Organ | ics | | | | |
| Client ID: PBS | Batch ID: 40976 | RunNo: 54866 | | | | | | |
| Prep Date: 10/12/2018 | Analysis Date: 10/15/2018 | SeqNo: 1824399 | Units: %Rec | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLi | imit Qual | | | | |
| | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

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WO#: 1810786

16-Oct-18

Client:Blagg EngineeringProject:GCU #210

| Sample ID MB-40976 | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------|----------------|---------|-----------|---|---------|----------|-------------|------|----------|------|
| Client ID: PBS | Batch | ID: 40 | 976 | R | unNo: 5 | 4866 | | | | |
| Prep Date: 10/12/2018 | Analysis D | ate: 10 | 0/15/2018 | S | eqNo: 1 | 824399 | Units: %Rec | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.4 | | 10.00 | | 94.2 | 50.6 | 138 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1810786 16-Oct-18

| Client: | Blagg E GCU # | Engineering |
|-----------|------------------|---------------|
| Project: | GCU #. | 210 |
| Sample ID | LCS-40985 | SampType: LCS |

| Sample ID LCS-40985 | SampType: LCS TestCode: EPA Method 8015D: Gasoline Range | | | | | | | | | |
|---|--|---------------------------------|------------------|-------------|------------------------|---|--|-----------|---|------|
| Client ID: LCSS | Batch ID: 40985 RunNo: 54862 | | | | | | | | | |
| Prep Date: 10/12/2018 | Analysis D | Date: 10/15/2018 SeqNo: 1823039 | | | | | 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 | 75.9 | 131 | | | |
| Surr: BFB | 1000 | | 1000 | | 102 | 15 | 316 | | | |
| and the second | | | | | | And the second se | and the local data and the local data and the local data | | and the second se | |
| Sample ID MB-40985 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8015D: Gasc | line Rang | 0 | |
| Sample ID MB-40985 Client ID: PBS | | ype: ME | | | tCode: El | | 8015D: Gasc | line Rang | 9 | |
| | | 1D: 40 | | F | | 4862 | 8015D: Gaso Units: mg/K | | 9 | |
| Client ID: PBS | Batch | 1D: 40 | 985)/15/2018 | F | RunNo: 54 | 4862 | | | e RPDLimit | Qual |
| Client ID: PBS Prep Date: 10/12/2018 | Batch Analysis D | n ID: 409 ate: 10 | 985)/15/2018 | F | RunNo: 54 SeqNo: 11 | 4862 823040 | Units: mg/K | íg | | Qual |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
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- E Value above quantitation range
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: **1810786**

16-Oct-18

Client: Blagg Engineering

Project: GCU #210

| | and the second second second | | | and the second | and the second second second second | | Contractor of the state of the | | | Concentration in the state in the second |
|----------------------------|------------------------------|------------------------------------|-----------|--|-------------------------------------|-----------|---|-------|----------|--|
| Sample ID LCS-40985 | SampT | SampType: LCS TestCode: EPA Method | | | | | 8021B: Vola | tiles | | |
| Client ID: LCSS | Batch | Batch ID: 40985 RunNo: 54862 | | | | | | | | |
| Prep Date: 10/12/2018 | Analysis D | ate: 10 | 0/15/2018 | S | SeqNo: 1 | 823043 | Units: mg/# | ٢g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 90.8 | 77.3 | 128 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 96.0 | 79.2 | 125 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.4 | 80.7 | 127 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.4 | 81.6 | 129 | | | |
| Surr: 4-Bromofluorobenzene | 0.96 | | 1.000 | | 96.3 | 80 | 120 | | | |
| Sample ID MB-40985 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Vola | tiles | | |
| Client ID: PBS | Batch | n ID: 40 | 985 | F | RunNo: 5 | 4862 | | | | |
| Prep Date: 10/12/2018 | Analysis D | ate: 10 | 0/15/2018 | S | SeqNo: 1 | 823044 | Units: mg/k | ٢g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.94 | | 1.000 | | 93.6 | 80 | 120 | | | |

Qualifiers:

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- PQL Practical Quanitative Limit
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WO#: 1810786

16-Oct-18

| ENVIRONMENTAL ANALYSIS LABORATORY | | lankins NE. NAI 87109 NAI 87109 | Sample Log-In Check List | | | | |
|---|------------------------|---------------------------------------|--------------------------|-------|------------|----------------|-------------------|
| Client Name BLAGG | Work Order Number 1 | 81078 | 16 | | | RcptNo | 1 |
| Received By: Isaiah Ortiz | 10/13/2018 10.20:00 AM | | | | | | |
| Completed By: Isalah Ortiz Reviewed By: JA/S (9/5/18 | 10/15/2018 8:05:51 AM | | | E 🖼 | | | |
| 1.412 | 15/18 | | | | | | |
| Chain of Custody | | Course of the | | | | | |
| 1. Is Chain of Custody complete? | Ý | les a | / | No | | No! Present | |
| 2. How was the sample delivered? | C | Courie | | | | | |
| Log In 3. Was an attempt made to cool the samples? | Y | es y | 8 | No |] | NA | |
| 4. Were all samples received at a temperature of | >0" C to 6.0"C | res 8 | / | No |] | NA 🗌 | |
| 5 Sample(s) in proper container(s)? | 1 | /es | 1 | No | 1 | | |
| 5. Sufficient sample volume for indicated (est(s)? | Ŷ | 'es 🖣 | | No [] | 1 | | |
| 7. Are samples (except VDA and ONG) property | preserved? Y | 'es 🖌 | | No |] | | |
| 8, Was preservative added to bottles? | Ŷ | 'es |] | No V | | NA | |
| 9. VOA vials have zero headspace? | | es | | No | | No VOA Viala 🕅 | TO |
| 10. Were any sample containers received broken? | 2 | res [| 1 | No | 方 | t of preserved | 10/15/18 |
| Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Y | /es h | 6 | No | 1 | or pH | 212 unless noted) |
| 12. Are matrices correctly identified on Chain of Ci | | 'es b | - | No | - | Adjusted? | |
| 13. Is it clear what analyses were requested? | Ŷ | 'es | | No | | | |
| Were all holding times able to be met? (If no, notify customer for authorization.) | Ŷ | es 3 | | No | d . | Checked by | |
| Special Handling (if applicable) | | | | | | | |
| 15. Was client notified of all discrepancies with th | is order? | Yes | | No { |] | NA 🗸 | |
| Person Notified | Date: | | | | alaina.een | | |
| By Whom. | Via: | eMai | Phon | ie [] | Fax | In Person | |
| Regarding. | | and a state | | | | | |
| Client Instructions: | | | | | | | |
| 16. Additional remarks: | | | | | | | |
| Cooler Information Cooler No Temp °C Condition Set 1 5.7 Good Yes | al Intact Seal No Se | al Da | e Sig | ned B | у | | |