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.
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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.

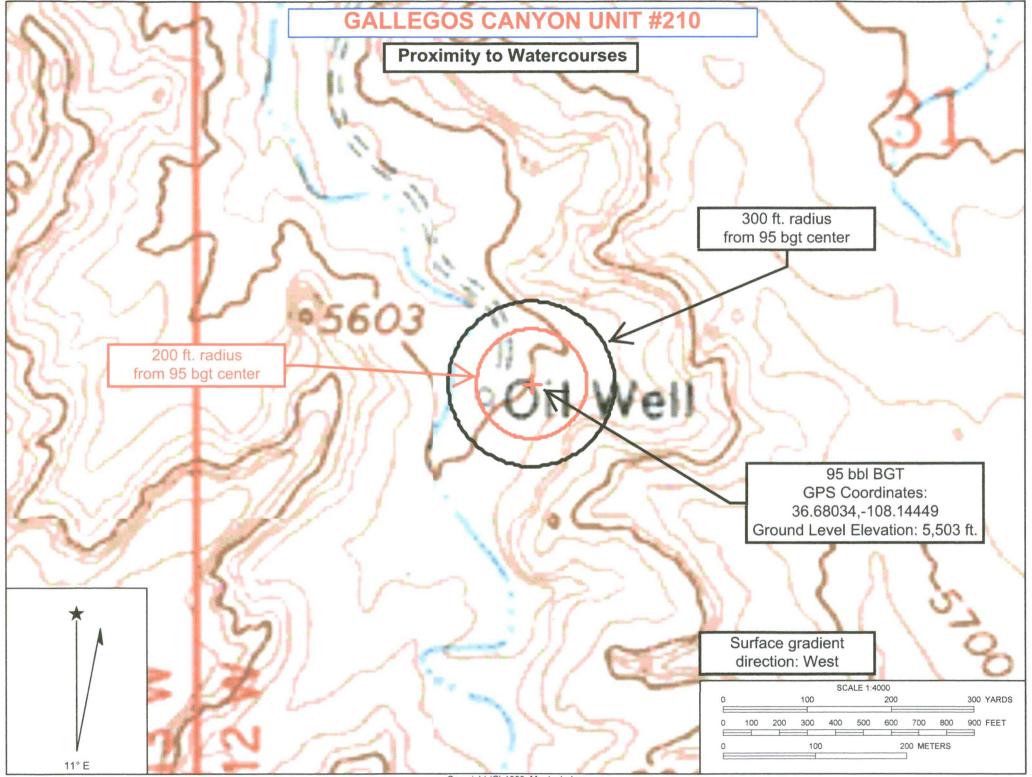
Cretaceous and Tertiary sandstones, as well as Quaternary Alluvial deposits, serve as the primary aquifers in the San Juan Basin (Stone et al., 1983). The Nacimiento Formation of Paleocene age occurs at the surface in a broad belt at the western and southern edges of the central San Juan Basin and dips 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						

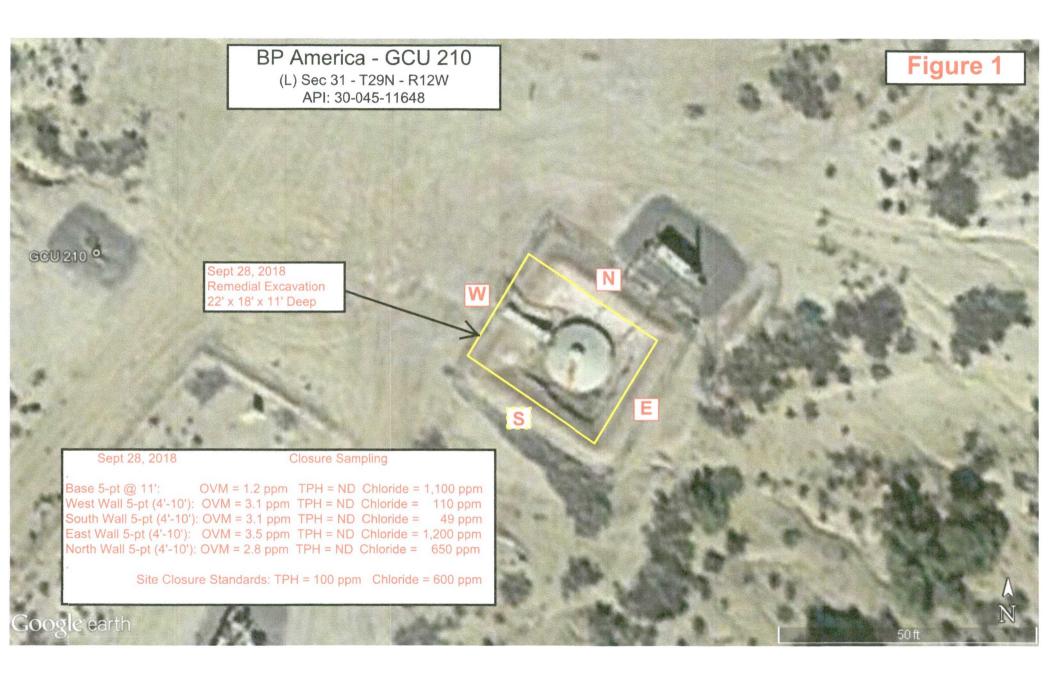
CLIENT: Blagg EngineeringClient Sample ID: GRAB @ 8' (95)Project: GCU 210Collection Date: 6/25/2018 1:35:00 PMLab ID: 1806F18-001Matrix: SOILReceived Date: 6/26/2018 7:00:00 AMAnalysesResultPOL Qual UnitsDF Date Analyzed

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

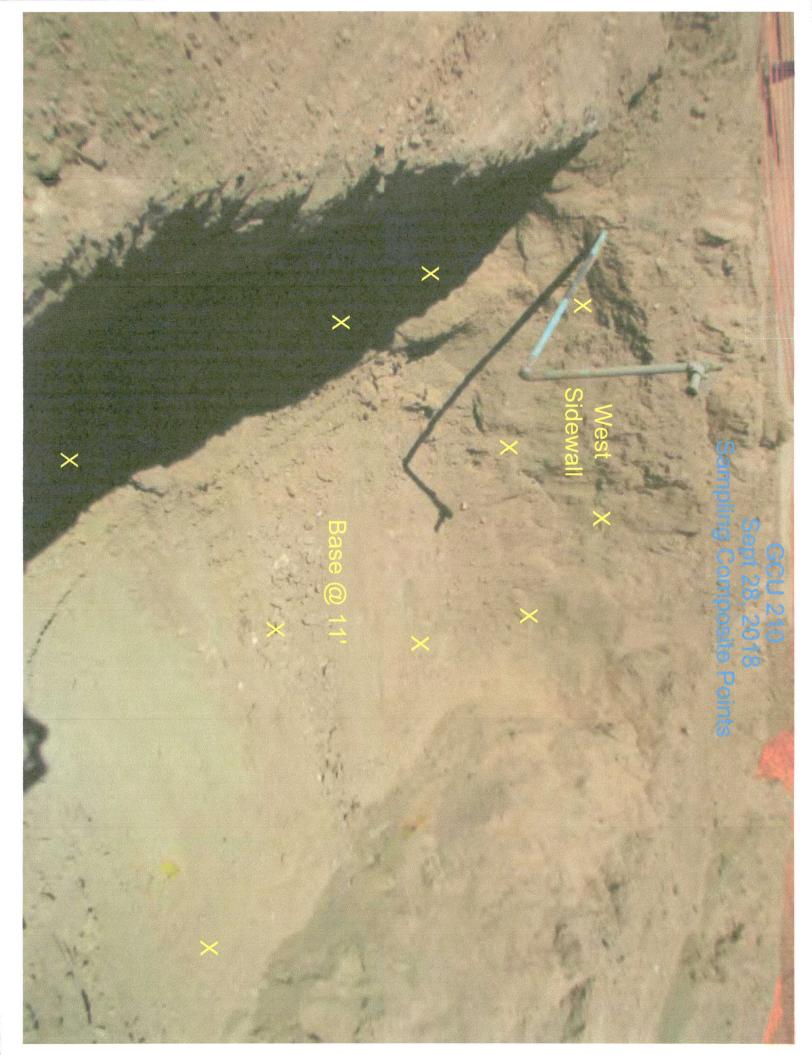
Analytical Report
Lab Order 1809H96
Date Reported: 10/2/2018

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

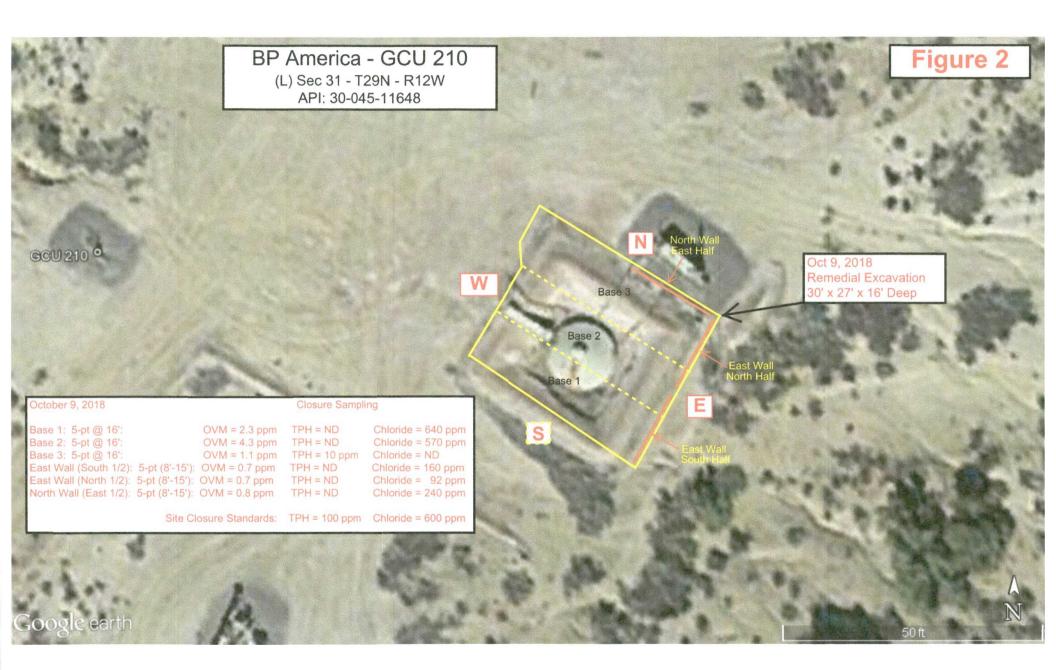
Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
	ND	Not Detected at the 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)

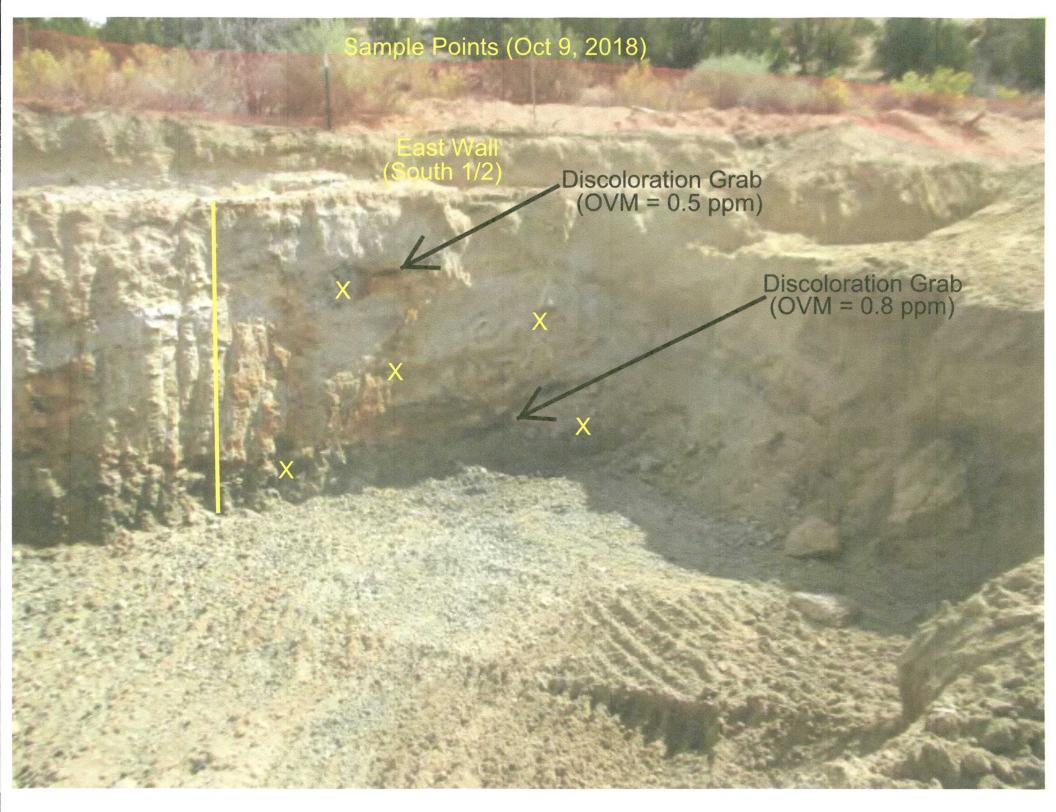
North Wall (East 1/2) East Wall (North 1/2)

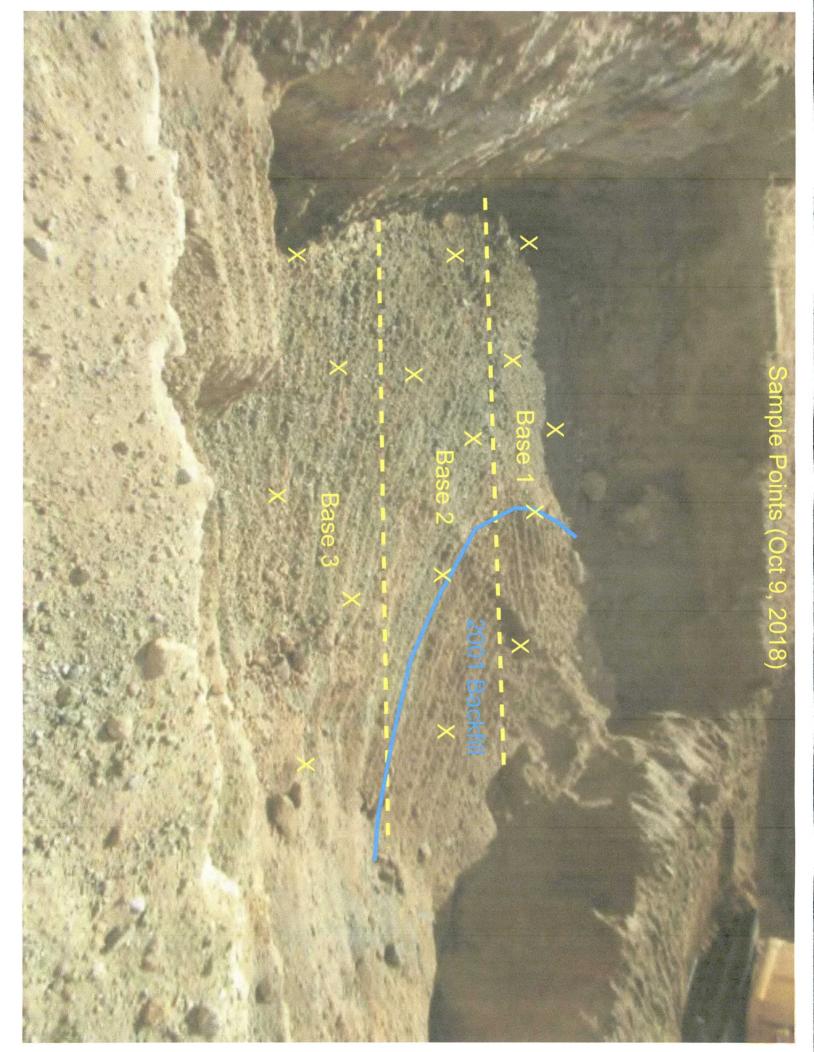
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oints (Oct 9, 2018)

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

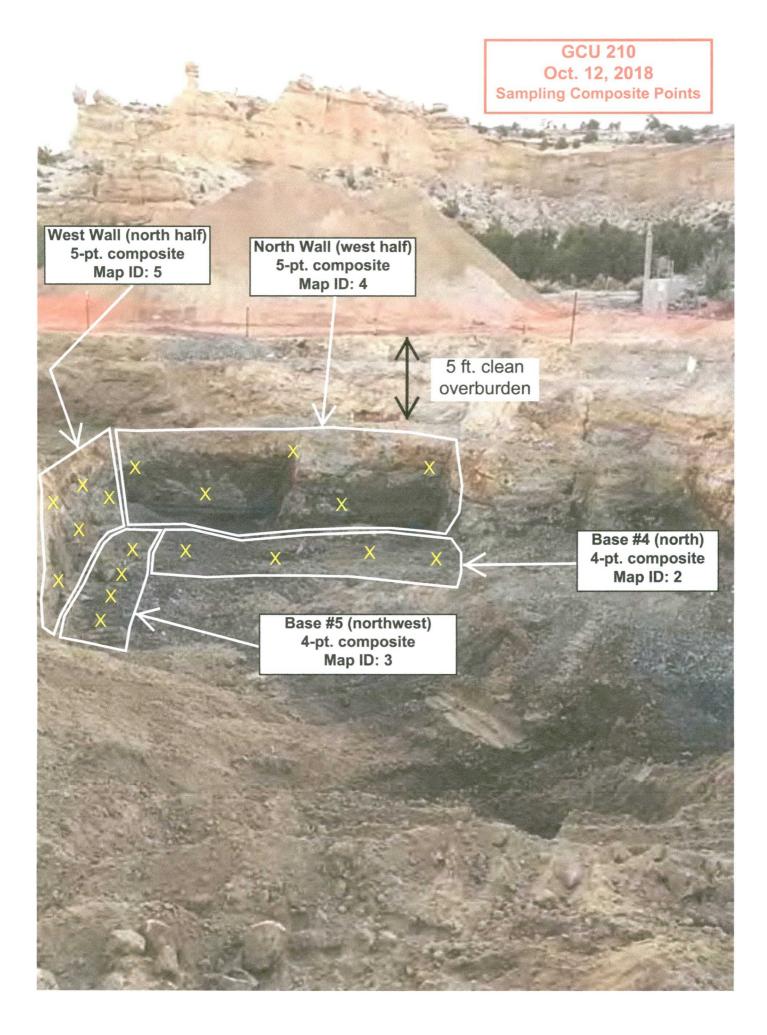
Analytical Report
Lab Order 1810786
Date Reported: 10/16/2018

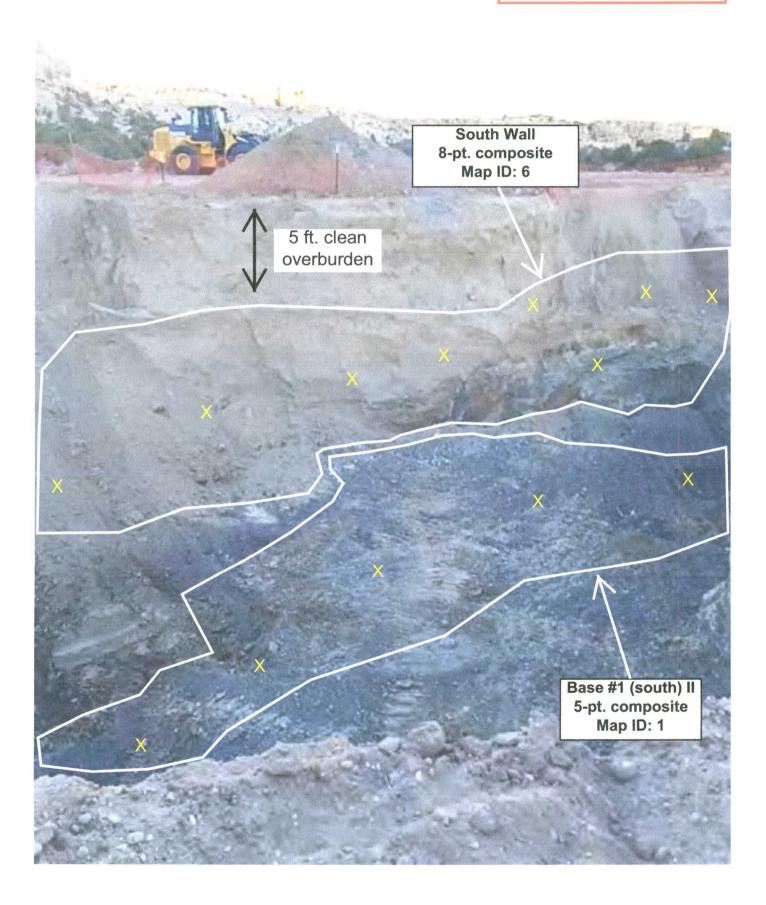
Hall Environmental Analysis Laboratory, Inc.

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		
																			T	1	1	and the second
																			T	1	1	Provide and
												-							-	1	+	
																			1	1	+	
													_			-			-	1	+	
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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												
																				_	
																				-	
						-														_	
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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27-Jun-18

WO#: 1806F19

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27-Jun-18

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
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- 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
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- % Recovery outside of range due to dilution or matrix S
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- 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:

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- RL Reporting Detection Limit
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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
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- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- 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

Page 2 of 5

WO#: 1806F18

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27-Jun-18

Client:	Blagg Engineering
Project:	GCU 210

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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	

Qualifiers:

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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

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
- 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
- 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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1809H96

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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WO#: **1809H96** *02-Oct-18*

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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

sound song to me and the state of the state of the	nderforfregende solgtigen von die einer der Armen aus	Contraction and an allowed and				and a state of the		contrasting bits data in the state of the			
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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WO#: 1810554 11-Oct-18

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	

WO#:

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1810554 11-Oct-18

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

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Client: Blagg Engineering

GCU 210

Project:

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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 0	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:

- * 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

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.
- 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#: 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
- 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#: **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:

- * 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
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- P Sample pH Not In Range
- RL Reporting Detection 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		