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	nVF1906629584
District RP	3RP-13662
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BPX Energy			OGRID: 7	78	Initial & Remedial Action Update		
Contact Name: Steve Moskal			Contact Te	elephone: (505)	330-9179		
Contact email: steven.moskal@bpx.com			Incident #	(assigned by OCD))		
Contact mail	ing address:	: 1199 Main Ave,	Suite 101, Duran	go CO,	81301		
			Location	n of R	Release So	ource	
Latitude: 36.6	5747°				Longitude:	-108.12239°	
			(NAD 83 in d	lecimal de	grees to 5 decin	nal places)	
Site Name: G	allegos Can	yon Unit 215			Site Type:	Natural Gas Pr	oduction Well Pad
Date Release	Discovered	: August 20, 2012			API#: 30-0	045-11622	
Unit Letter	Section	Township	Range		Coun	nty	
M	16	T28N	R12W	San	Juan		
g c o			Dr	/N/			
Surface Owner	r: State	☐ Federal ⊠ T	ribal Private	(Name:)
			Nature an	d Vo	lume of 1	Release	
	Materia	ul(s) Released (Select a	all that apply and attac	ch calculat	tions or specific	justification for the	e volumes provided below)
Crude Oil		Volume Release		on careara	nons or specific	Volume Reco	
Non-	Water	Volume Release	ed (bbls): <u>Unknov</u>	wn_		Volume Reco	overed (bbls):
			tion of dissolved	chloride	e in the	Yes N	No
Condensa	ite	Volume Release				Volume Reco	overed (bbls): 0 bbls
						Volume Reco	
Natural Gas Volume Released (Mcf)							
U Otner (de	Other (describe) Volume/Weight Released (provide units))	volume/wei	ght Recovered (provide units)	
Cause of Rel	eace.						
							oserved during below-grade tank (BGT)
confirmation sampling event, 8/20/2012. No samples collected. BP notified that impacts most likely categorized as a major release and an immediate verbal notification required to the New Mexico Oil Conservation Division (NMOCD). Potential groundwater observed and							
estimated at approximately 13-14 feet (ft.) below grade							
аррголинасы	y 13-14 166	t (1t.) octow grade					

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If YES, was immediate no N/A	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.
	s been secured to protect human health and the environment.
_	ve been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	coverable materials have been removed and managed appropriately.
If all the actions described	l above have <u>not</u> been undertaken, explain why:
has begun, please attach a within a lined containmen	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investigated	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have the and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:Steve M	oskal Title: _Environmental Coordinator
Signature:	Date:February 28, 2019
email: <u>Steven.moskal@b</u>	px.com Telephone: _(505) 330-9179
OCD Only Vanessa Fi	elds
	Date: 3/7/2019

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application 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? Did this release impact groundwater or surface water? Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? 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? Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release within 300 feet of a wetland? Are the lateral extents of the release overlying a subsurface mine? Are the lateral extents of the release overlying an unstable area such as karst geology? Are the lateral extents of 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 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. Boring or excavation logs. Topographic/Aerail maps Laboratory data including chain of custody				
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	 □ Photographs including date and GIS information (Investigation performed prior to 2018 Spill Rule Update) □ Topographic/Aerial maps 			

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.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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:Steve Moskal	Title: Environmental Coordinator	
Signature:	Date:February 28, 2019	
email: <u>steven.moskal@bpx,com</u>	Telephone:(505) 330-9179	
OCD Only		
<u> </u>		
Received by:	Date:	

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Ch	ecklist: 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) 			
Deferral Requests Or	nly: Each of the following items must be confirmed as part of any req	uest for deferral of remediation.	
	st be in areas immediately under or around production equipment where		
Extents of contam	ination must be fully delineated.		
Contamination do	es not cause an imminent risk to human health, the environment, or grou	indwater.	
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 ☐ Denie	d Deferral Approved	
Signature:	<u>Date:</u>		

Offsite, Tribal, access has not been obtained to complete remediation of very thin layer of subsurface soil impacts.

State of New Mexico Oil Conservation Division

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

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.

☐ A scaled site and sampling diagram as described in 19.15.29.11 NM	IAC	
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 Dist	rict 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 and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-1 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-1 compliance with any other federal, state, or local laws and/or regulations, restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD we Printed Name:	ase notifications and perform corrective actions for releases which 41 report by the OCD does not relieve the operator of liability the contamination that pose a threat to groundwater, surface water, 41 report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially not that existed prior to the release or their final land use in when reclamation and re-vegetation are complete.	
•	hone:	
OCD Only		
Received by:	Date:	
Received by.	Date:	
Closure approval by the OCD does not relieve the responsible party of liar remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible	
Closure Approved by:	Date:	
Printed Name:	Title:	

BP AMERICA PRODUCTION COMPANY

Historical Release discovered beneath 95 barrel Below-grade Tank GALLEGOS CANYON UNIT 215

API #: 30-045-11622 Legal Description: (Unit Letter M, Sec. 16 -T28N -R12W, NMPM)

CHRONOLOGICAL EVENT SUMMATION

- 1. **August 20, 2012**: Hydrocarbon impacted soils detected by physical odor and gray to black discoloration observed during below-grade tank (**BGT**) confirmation sampling event. No samples collected. BP notified that impacts most likely categorized as a major release and an immediate verbal notification required to the New Mexico Oil Conservation Division (**NMOCD**). Potential groundwater observed and estimated at approximately 13-14 feet (**ft.**) below grade (**B.G.**).
- 2. **September 2012**: Remediation of impacted soils via excavation initiated near BGT area.
- 3. **September 6, 2012**: Sampling of excavation sidewalls conducted. Excavation dimensions approximately 55 ft. X 43 ft. X 11-12 ft. depth. Test hole (TH-NE) advanced approximately 65 ft. east-northeast of excavated area to 9 ft. B.G. Based on findings, impacts appeared more extensive than preliminary estimation (see attached Field Report).
- 4. **September 20, 2012**: Three (3) test holes advanced southeast, east, and northeast of BGT to further evaluate lateral extent of impacts.
- 5. **July 8, 2013**: After receiving verbal approval from FIMO to assess off-site migration of impacts, lateral assessment via geoprobing to the north area of well pad was initiated.
- 6. **July 12, 2013**: Delineation investigation completed (see attached map & bore hole logs). Five (5) piezometers installed during investigation to determine groundwater gradient (approximately N27W direction).
- **7. April 2014:** Second phase of soil remediation via excavation initiated after subsurface utilities were removed. No official or formal approval was given to BP from Federal Indian & Minerals Office (FIMO) to remove any off-site impacts.
- **8.** August 2014: Cleanup of on-site impacted soils completed (see attached Table with field & lab results).
- 9. October 20, 2014: Three (3) groundwater monitor wells (MW#1, MW#2, MW#3) were installed using CME-95 mobile drill rig (see following aerial map and Bore / Test Hole Reports).
- **10. October 21, 2014**: Two (2) groundwater monitor wells (MW#4 & MW#5) were installed using CME-95 mobile drill rig (see following aerial map and Bore / Test Hole Reports).
- **11. January 16, 2015**: Development/purging of all five (5) groundwater monitor wells was conducted to 1) eliminate sediment accumulation during the installation process, and 2) determine/observe rudimentary recovery rates.
- **12. January 28, 2015**: Completed initial sampling of groundwater monitor wells for BTEX and anion/cation balance per US EPA Method 300.1 as requested by New Mexico Oil Conservation Division's District III Aztec Office.
- **13. September 14, 2015**: Survey of monitor well casing tops completed.
- **14. September 26, 2017**: Last quarterly sampling event of groundwater monitor wells.

CONFIRMATION

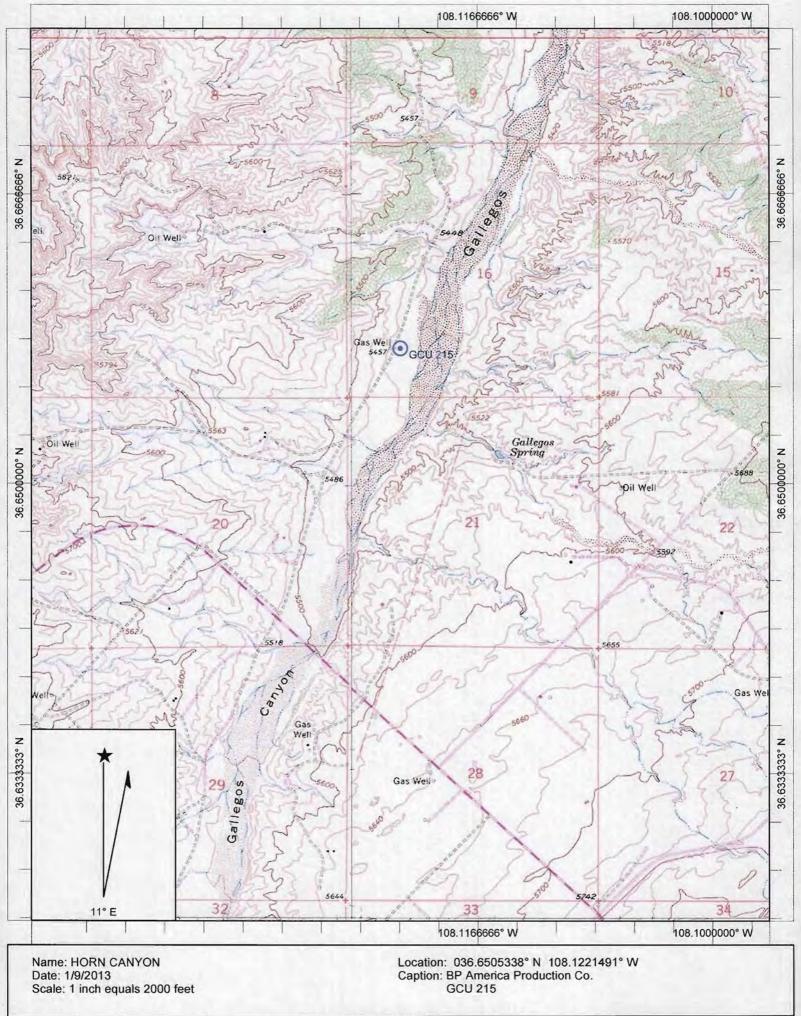
SAMPLING /

INITIAL

RELEASE

INVESTIGATION

SEPTEMBER 2012

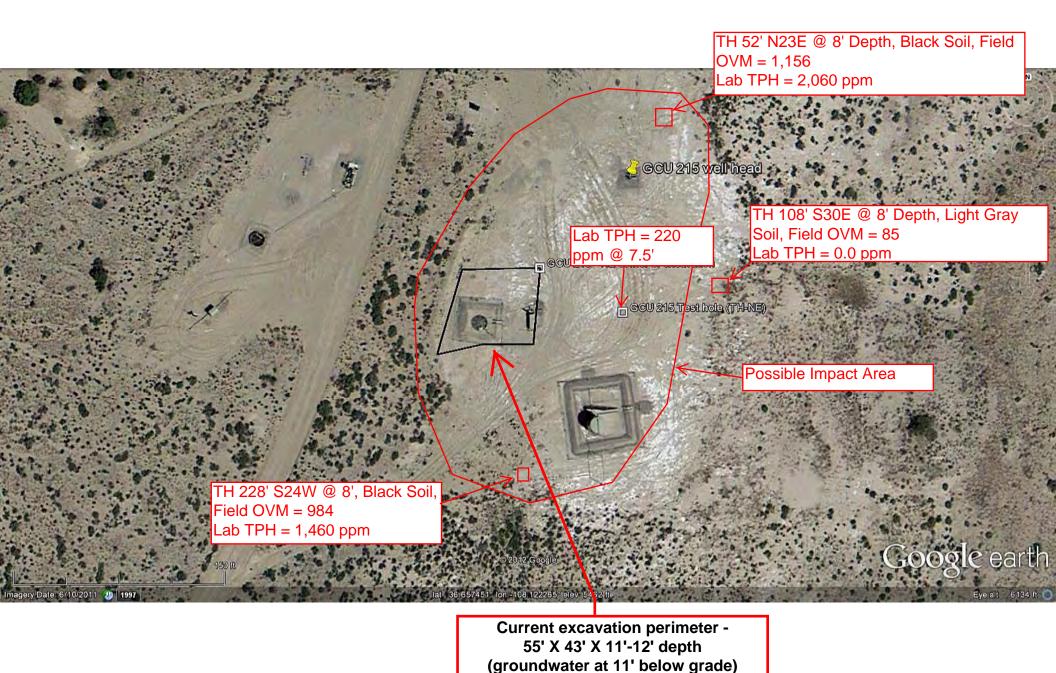


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CLIENT: BP	BLAG P.O. BOX 8	G ENGI				, ,	4511622
		(505) 6		•		TANK ID (if applicble):	Α
FIELD REPORT:	(circle one): BGT CONFIRM	ATION / RELE	ASE INVESTIC	GATION / O	THER:	PAGE #:1	of 1
SITE INFORMATION	: SITE NAME: GC	U # 215				DATE STARTED:	09/06/12
QUAD/UNIT: M SEC: 16 TWP:	28N RNG: 12W		M CNT	Y: SJ	ST: NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 990'S / 1190'W	SW/SW	LEASE TYPE:	FEDERAL	_/ STATE /	FEE INDIAN	ENVIRONMENTAL	
LEASE #: I-149-IND-8475		17	F	LKHORN		SPECIALIST(S):	NV
REFERENCE POINT	- WELL HEAD (W.I				5776 X 108.12	200 GL ELE\	/.: 5447'
1) 95 BBL BGT (DW/DB)	 GPS COORD.: _	•	47 X 108			BEARING FROM W.H.:	153', S46W
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 RECOR	RD(S) # OR LAB	USED:	HAL	L		OVM READING
1) SAMPLE ID: 2 @ 10'	SAMPLE DATE: C	9/06/12	SAMPLE TIME:	1036		8015, 8021, 300.0 ((CI) (ppm) 1,101
2) SAMPLE ID: 3 @ 7'	SAMPLE DATE:	9/06/12	_ SAMPLE TIME:	1055	LAB ANALYSIS:	8015, 8021, 300.0 ((CI) 3,877
3) SAMPLE ID: TH-NE @ 7.5'	SAMPLE DATE:	9/06/12	_ SAMPLE TIME:	1152	LAB ANALYSIS:	8015, 8021, 300.0 ((CI) 489
4) SAMPLE ID: 4PC-SW @ 4.5' -	7' SAMPLE DATE: 0	9/06/12	_ SAMPLE TIME:	_1130_	LAB ANALYSIS:	8015, 8021, 300.0 ((CI) NA
SOIL DESCRIPTION	SOIL TYPE: SAND) / SILTY SAND	SILT / SIL	TY CLAY / (CLAY / GRAVEL / (OTHER	
SOIL COLOR: MOSTLY DARK YELLOW	/ISH ORANGE TO MODERAT		Ī				
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY						C / COHESIVE / MEDIUM PLASTIC	
CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY SLIGHTLY MOIST / MOIST / W						DFT <u> FIRM STIFF</u> VERY PLANATION - WITHIN [
SAMPLE TYPE: GRAB / COMPOSITE - #		VAILD	SOILS ON		D: YESI NO EX	PLANATION - WITHIN L	DISCOLORED
DISCOLORATION/STAINING OBSERVED	YES NO EXPLANATION	N - MEDIUM G	RAY TO BLA	CK ALL SIDE	EWALLS BELOW 5'	- 7' BELOW GRADE.	
ANY ADEAC DICDI AVINO WETNESS, VEST AND	EVOLANIATION - COCINIDA	WTED EVENO		V 441 401 B			
ANY AREAS DISPLAYING WETNESS: YES / NO APPARENT EVIDENCE OF A RELEASE C						R TO BE FROM BGT. HIS	TORICAL.
ADDITIONAL COMMENTS: TEST HOLE (TH-NE) ADVANCED TO 9' BE	LOW GRADE, D	ISCOLORED	SOIL OBSE	ERVED ~ 6.5' - 7' BE		-
strong hydrocarbon odor). LATERAL EXT							
SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: 11'-12' N	ft. X EAREST WATER SOURCE:	ft. >1,000' NEA	REST SURFA	ft. ACE WATER:		L ESTIMATION (Cubic) IOCD TPH CLOSURE STD:	·——
SITE SKETCH	тс		PLOT PI				
SITE SIXETOIT	W.H		PLOTPI	LAN circ		VM CALIB. READ. = 52.	KF = 0.32
CURRENT / 🙏 🗢	55'					IVM CALIB. GAS = <u>10</u> 0 IME: <u>11:15</u> (am/pm DA	0 ppm TE: 09/06/12
EXCAVATION PERIMETER	® •		OF EXCAVATION W.H.	DN	N	<u> </u>	
PERIIVIETER / / (4)	<u>.</u>			TEST H	OLE (TH-NE)	MISCELL.	
/66'/	3	65.5'			BW FROM W.H.	WO: N155782	7
PBGTL T.B. ~ 6'		PREVIOUS SEPARATOR	~		SURFACE GRADIENT	PO #: 78892	
B.G.		POSITION			DIRECTION	PK: 745510 PJ#: Z2-00690)-C
<i>() :</i>		Sample Date	Time	Matrix Dep Type (ft)6/10/10
	3	1 09/06/		Soil 6		OCD Appr. date(s): (
RAMP 3	A	1 09/06/ 2 09/06/		Soil 7. Soil 4.		Tank OVM = Organic ID ppm = parts per	Vapor Meter
AREA	0.00	3A 09/06/		Soil 6		A BGT Sidewalls Visib	
	S.P.D.	4 09/06/ 4 09/06/		Soil 7 Soil 8		BGT Sidewalls Visib	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	ON DEPRESSION; B.G. = BELOW GRA	ADE; B = BELOW; T.	H. = TEST HOLE	; ~ = APPROX.;	W.H. = WELL HEAD;	BGT Sidewalls Visib	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW - SINGLI					vvall; na - no i	Magnetic declination	on: 10 E
TRAVEL NOTES: CALLOUT:					/12, 08/28/12, 0	08/29/12, 09/06/12	

revised: 04/10/12 BEI1005E-4.SKF

GCU #215 - Release Investigation (continued) 09/20/12



BP America Production Co.

GCU # 215 Unit Letter M, Section 16, T28N, R8W, NMPM

Imagery Date: 6/10/2011

Legend

- 95 bgt
- Estimated Impact Area (~53,500 sq. ft.)
- Geoprobe pt.
- Line Measure to Piezometer
- Piezometer installed within geoprobe pt.
- □ Test Hole
- Well Head



Google earth

2013 Cond

BP AMERICA PRODUCTION COMPANY

GCU # 215

Unit M, Sec. 16, T29N, R12W

Historical Release Discovered beneath 95 bbl Below-grade Tank

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	GRAB / COMPOSITE	FIELD OVM READING	TPH - gasoline range	TPH - diesel range	TPH - cumulative	Benzene	Toluene	Ethyl - benzene	Total Xylenes	BTEX - cumulative
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
2 @ 10'	09/06/12	1036	Grab	1,101	1,200	370	1,570	1.3	11.0	6.2	50	68.5
3 @ 7'	09/06/12	1055	Grab	3,877	1,200	1,000	2,200	ND	ND	3.5	43	46.5
TH-NE @ 7.5'	09/06/12	1152	Grab	NA	170	ND	170	0.43	ND	0.42	2.2	3.05
4PC-SW @ 4.5'-7'	09/06/12	1130	Comp.	NA	ND	ND	ND	ND	ND	ND	ND	ND
TH 228', S24W @ 8'	09/20/12	0945	Grab	984	510	950	1,460	ND	ND	ND	ND	ND
TH 108', S30E @ 7'	09/20/12	1015	Grab	85	ND	ND	ND	ND	ND	ND	ND	ND
TH 52', N23E @ 8'	09/20/12	1032	Grab	1,156	1,400	660	2,060	2.6	ND	15	160	177.6
GP-01 @ 6.5'-7'	07/08/13	0912	Grab	81.8	24	15	39	ND	ND	ND	ND	ND
GP-01 @ 9'-9.5'	07/08/13	0920	Grab	0.3	NA	NA	NA	NA	NA	NA	NA	NA
GP-02 @ 6.5'-7'	07/08/13	0945	Grab	0.4	ND	ND	ND	ND	ND	ND	ND	ND
GP-03 @ 6'-6.5'	07/08/13	1007	Grab	135	73	53	126	ND	ND	0.17	0.92	1.09
GP-04 @ 8'-9'	07/08/13	1031	Grab	136	2,000	860	2,860	ND	ND	14	180	194
GP-05 @ 8'-9'	07/08/13	1110	Grab	377	1,400	510	1,910	ND	ND	8.5	110	119
GP-06 @ 10'-11'	07/08/13	1410	Grab	0.0	NA	NA	NA	NA	NA	NA	NA	NA
GP-07 @ 7.5'-9'	07/08/13	1425	Grab	377	1,900	730	2,630	ND	ND	9.7	120	130
GP-08 @ 10.5'-12'	07/08/13	1455	Grab	419	ND	ND	ND	ND	ND	ND	ND	ND
GP-09 @ 7.75'-9'	07/09/13	0907	Grab	161	NA	NA	NA	NA	NA	NA	NA	NA
GP-10 @ 7'-8'	07/09/13	0938	Grab	156.1	310	120	430	ND	ND	ND	4.5	4.5
GP-11 @ 8'-9'	07/09/13	0907	Grab	19.7	NA	NA	NA	NA	NA	NA	NA	NA
GP-12 @ 7'-8'	07/09/13	0955	Grab	151	NA	NA	NA	NA	NA	NA	NA	NA
GP-13 @ 9'-12'	07/09/13	1128	Grab	0.0	NA	NA	NA	NA	NA	NA	NA	NA
GP-14 @ 6'-7'	07/09/13	1258	Grab	151	520	520	1,040	ND	ND	1.9	28	29.9
GP-15 @ 6'-7'	07/09/13	1332	Grab	0.4	ND	ND	ND	ND	ND	ND	ND	ND
GP-16 @ 7.5'-8'	07/09/13	1410	Grab	151	NA	NA	NA	NA	NA	NA	NA	NA
GP-17 @ 7'-8'	07/09/13	1505	Grab	151	220	130	350	ND	ND	0.45	5.1	5.55
GP-18 @ 7.5'-8'	07/10/13	0945	Grab	0.0	ND	ND	ND	NA	NA	NA	NA	NA
GP-19 @ 7.5'-8.5'	07/10/13	1029	Grab	0.0	ND	ND	ND	NA	NA	NA	NA	NA
GP-20 @ 9'-10'	07/10/13	1106	Grab	0.0	ND	ND	ND	NA	NA	NA	NA	NA
GP-21 @ 6.5'-7.5'	07/10/13	1207	Grab	0.0	ND	ND	ND	NA	NA	NA	NA	NA
GP-25 @ 7.5'-8'	07/12/13	0825	Grab	509	NA	NA	NA	NA	NA	NA	NA	NA
GP-25 @ 9.5'-10'	07/12/13	0829	Grab	145	NA	NA	NA	NA	NA	NA	NA	NA
GP-26 @ 5.5'-6.5'	07/12/13	0900	Grab	527	880	480	1,360	0.90	ND	4.6	58	63.5
GP-26 @ 9'-10'	07/12/13	0908	Grab	66.3	ND	ND	ND	NA	NA	NA	NA	NA
NIV	OCD RELEAS	SE CLOSURE	STANDARDS -	100	-	-	100	10	-	-	-	50

SAMPLE ID	SAMPLE	SAMPLE	GRAB /	FIELD OVM	TPH - gasoline	TPH - diesel	TPH -	Benzene	Toluene	Ethyl - benzene	Total Xylenes	BTEX -
	DATE	TIME	COMPOSITE	READING	range	range	cumulative					cumulative
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
GP-27 @ 6.5'-7.5'	07/12/13	0934	Grab	489	NA	NA	NA	NA	NA	NA	NA	NA
GP-27 @ 8'-9'	07/12/13	0943	Grab	418	76	300	376	ND	ND	2.0	21	23
GP-27 @ 10'-11'	07/12/13	0945	Grab	46.1	ND	5.8	5.8	NA	NA	NA	NA	NA
GP-28 @ 6.5'-7.5'	07/12/13	1010	Grab	632	NA	NA	NA	NA	NA	NA	NA	NA
GP-28 @ 8.5'-9.5'	07/12/13	1026	Grab	4.4	NA	NA	NA	NA	NA	NA	NA	NA
GP-29 @ 7'-8'	07/12/13	1243	Grab	922	170	370	540	ND	ND	ND	2.3	2.3
GP-29 @ 9'-10'	07/12/13	1245	Grab	4.4	ND	ND	ND	NA	NA	NA	NA	NA
GP-30 @ 6.5'-7'	07/12/13	1255	Grab	542	NA	NA	NA	NA	NA	NA	NA	NA
GP-30 @ 7'-8'	07/12/13	1300	Grab	328	NA	NA	NA	NA	NA	NA	NA	NA
GP-31 @ 7'-8'	07/12/13	1328	Grab	342	NA	NA	NA	NA	NA	NA	NA	NA
GP-31 @ 8'-9'	07/12/13	1338	Grab	329	210	69	279	0.50	4.6	1.4	15	21.5
GP-31 @ 10.5'-11'	07/12/13	1342	Grab	9.5	NA	NA	NA	NA	NA	NA	NA	NA
NM	OCD RELEAS	SE CLOSURE	STANDARDS -	100	-	-	100	10	-	-	-	50

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

ppm - Parts per million or milligram per kilogram (mg/Kg).

NA - Not available or applicable.

NMOCD - New Mexico Oil Conservation Division.

Installed 2 - 5' x 2" screen & 5' riser for piezometer in GP-13.

Installed 2 - 5' x 2" screen & 5' riser for piezometer in GP-17.

Installed 2 - 5' x 2" screen & 5' riser for piezometer in GP-20.

Installed 2 - 5' x 2" screen & 5' riser for piezometer in GP-24.

Installed 2 - 5' x 2" screen & 5' riser for piezometer in GP-27.

Lab Order **1209275**

Date Reported: 9/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 2 @ 10' (95)

 Project:
 GCU #215
 Collection Date: 9/6/2012 10:18:00 AM

 Lab ID:
 1209275-001
 Matrix: SOIL
 Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	370	10		mg/Kg	1	9/10/2012 9:30:10 AM
Surr: DNOP	93.9	77.6-140		%REC	1	9/10/2012 9:30:10 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	1200	25		mg/Kg	5	9/10/2012 2:07:09 PM
Surr: BFB	830	84-116	S	%REC	5	9/10/2012 2:07:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	1.3	0.25		mg/Kg	5	9/10/2012 2:07:09 PM
Toluene	11	0.25		mg/Kg	5	9/10/2012 2:07:09 PM
Ethylbenzene	6.2	0.25		mg/Kg	5	9/10/2012 2:07:09 PM
Xylenes, Total	50	2.0		mg/Kg	20	9/10/2012 11:41:56 PM
Surr: 4-Bromofluorobenzene	160	80-120	S	%REC	5	9/10/2012 2:07:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	45	30		mg/Kg	20	9/10/2012 12:56:35 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1209275

Date Reported: 9/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 3 @ 7' (95)

 Project:
 GCU #215
 Collection Date: 9/6/2012 10:55:00 AM

 Lab ID:
 1209275-002
 Matrix: SOIL
 Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	9/10/2012 12:02:09 PM
Surr: DNOP	0	77.6-140	S	%REC	10	9/10/2012 12:02:09 PM
EPA METHOD 8015B: GASOLINE R.	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	1200	100		mg/Kg	20	9/10/2012 2:36:00 PM
Surr: BFB	521	84-116	S	%REC	20	9/10/2012 2:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	20	9/10/2012 2:36:00 PM
Toluene	ND	1.0		mg/Kg	20	9/10/2012 2:36:00 PM
Ethylbenzene	3.5	1.0		mg/Kg	20	9/10/2012 2:36:00 PM
Xylenes, Total	43	2.0		mg/Kg	20	9/10/2012 2:36:00 PM
Surr: 4-Bromofluorobenzene	132	80-120	S	%REC	20	9/10/2012 2:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	400	30		mg/Kg	20	9/10/2012 1:09:00 PM

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

Lab Order **1209275**

Date Reported: 9/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 4PC-SW @ 4.5-7'

 Project:
 GCU #215
 Collection Date: 9/6/2012 11:30:00 AM

 Lab ID:
 1209275-003
 Matrix: SOIL
 Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/10/2012 10:20:40 AM
Surr: DNOP	98.3	77.6-140	%REC	1	9/10/2012 10:20:40 AM
EPA METHOD 8015B: GASOLINE RAM	NGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/11/2012 1:36:43 AM
Surr: BFB	109	84-116	%REC	1	9/11/2012 1:36:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	9/10/2012 3:33:34 PM
Toluene	ND	0.050	mg/Kg	1	9/10/2012 3:33:34 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/10/2012 3:33:34 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/10/2012 3:33:34 PM
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	9/10/2012 3:33:34 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	240	30	mg/Kg	20	9/10/2012 1:21:24 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- D. DDD outside accented recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Lab Order 1209275

Date Reported: 9/14/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH-NE @ 7.5'

 Project:
 GCU #215
 Collection Date: 9/6/2012 11:52:00 AM

 Lab ID:
 1209275-004
 Matrix: SOIL
 Received Date: 9/8/2012 11:15:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/10/2012 10:45:48 AM
Surr: DNOP	100	77.6-140		%REC	1	9/10/2012 10:45:48 AM
EPA METHOD 8015B: GASOLINE RA	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	170	5.0		mg/Kg	1	9/10/2012 4:02:18 PM
Surr: BFB	1030	84-116	S	%REC	1	9/10/2012 4:02:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.43	0.050		mg/Kg	1	9/10/2012 4:02:18 PM
Toluene	ND	0.050		mg/Kg	1	9/10/2012 4:02:18 PM
Ethylbenzene	0.42	0.050		mg/Kg	1	9/10/2012 4:02:18 PM
Xylenes, Total	2.2	0.10		mg/Kg	1	9/10/2012 4:02:18 PM
Surr: 4-Bromofluorobenzene	159	80-120	S	%REC	1	9/10/2012 4:02:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	41	30		mg/Kg	20	9/10/2012 1:33:49 PM

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3668 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 3668 RunNo: 5415

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154533 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-3668 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 3668 RunNo: 5415

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154534 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.2 90 110

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3669 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS Batch ID: 3669 RunNo: 5402

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154019 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 11 10.00 111 77.6 140

Sample ID LCS-3669 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS Batch ID: 3669 RunNo: 5402

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154022 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 36
 10
 50.00
 0
 71.9
 52.6
 130

 Surr: DNOP
 4.4
 5.000
 88.3
 77.6
 140

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3703 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range

Client ID: PBW Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 154966 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 1.2 1.000 118 79.5 166

Sample ID LCS-3703 SampType: LCS TestCode: EPA Method 8015B: Diesel Range

Client ID: LCSW Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 155418 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 0.49
 0.5000
 97.1
 79.5
 166

Sample ID LCSD-3703 SampType: LCSD TestCode: EPA Method 8015B: Diesel Range

Client ID: LCSS02 Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 155419 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr; DNOP 0.42 0.5000 84.4 79.5 166 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits
 R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

CI	hain-c	of-Cus	tody Record	I urn-Around I	іте:	COMPLETE BY	.			F	łΑ	LL	E	NV	/TE	10	NI	ИE	NT	AL	_
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush _	09/10/2012				_									\TO		
				Project Name:							ww	w.ha	llen	viro	nme	ntal	.com	1			
Mailing Ad	ddress:	P.O. BO	X 87	[GCU #21!	5		49	01 	lawk	ins I	NE -	Alb	ouqu	erqu	ıe, N	IM 8	7109	€		
		BLOOM	FIELD, NM 87413	Project #:				Τe	el. 50) 5 -34	15-3	975	F	Fax	505-	345	-410	7			
Phone #:		(505) 63	2-1199									A	nal	ysis	Rec	{ues	t				
email or F	ax#:			Project Manag	jer:				(\$04		·					
QA/QC Pad Standa	-		Level 4 (Full Validation)		NELSON VE	LEZ	F(8021B)	+ TPH (Gas only)	s/Diesel						PCB's					<u> </u>	<u>e</u>
Accreditat	ion:			Sampler:	NELSON VE	LEZ av	I I	l (Ga:	(Gas	-)			NO2,	/ 8082 F						sample
□ NELAP		☐ Other		On Ice:	Y⊋ Yes	□ No	F	ТРН)15B	418.1)	504.1)	AH)		03,	9/8		A)				
□ EDD (T	Гуре)	<u> </u>		7	erature: みぷ゚	C .	ŧ	BE +)8 p	od 4	od 5	or P	tals	N, 1	ides	7	-40	0.0		e 3	Sos
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MIT	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method	EDB (Method	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4,	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)	4 ()	orab sample	4 pt. composite
9/6/12	1018	SOIL	2 @ 10' (95)	4 oz 1	Cool	-001	٧		٧			- 50		1	- 83	~_		7		7	†
											•										T
9/6/12	1055	ŞOIL	3 @ 7' (95)	MESKE	Cool	-002	٧		٧									٧	١	/	
				66 c 31 / c 1						_									_	\perp	_
9/6/12	1130	SOIL	4PC - SW @ 4.5 - 7'	M4621	Cool	<u> </u>	٧		٧					., ,				V		1	<u>V</u>
9/6/12	1152	SOIL	TH - NE @ 7.5'	W4021	Cool	-004	٧		٧									٧	1	1	$\frac{1}{2}$
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Date: /	Time:	Relinquishe	ed by.	Received by:		Date Time	Ren	l nark	<u>. </u>	TPH	1 (2)	1156	3)	GRC) <i>Q</i> .	DRC) (18				
9/7/12	940	9/1	mVJ	Chart	Lanter	9/7/12 940	Bil	LL DI	RECT	LY TO	О ВР) :									
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1/1/12	1621	Chr	ster libetus	MA	approdited laboratoria	9/8/12 11/15	:			: _					Payk			745	. 41		_

(Chain	-of-C	ustody Record	Turn-Around	Time:		٦,													
Client:	BLAGE	ENG	WEERING INC.	☐ Standard	l ≭ (Rusi	5-DATS] [] [NT/	AL RY
	$\mathcal{G}P$	MERIC	A	Project Nam	e:]			_								11727		
Mailing	Address	F. O.	Box 87	GCI	1215			49	01 -	ławk						ital.c	om IM 87	7100		
			NM 87413	Project #:)5-3 ₄							-410			
Phone			632-1199	1				10)I. O(30-0-	+0-0					ues	_			
email o	or Fax#:			Project Mana	iger:			only)	(le			l I		_						\top
X Star			☐ Level 4 (Full Validation)	J. BLA	166		s (8021)	Gas or	(Gas/Diesel)					2O₄,SO	PCB's	<u> </u>				
Accred	AP	□ Othe	er	Sampler: J	BIAGE	E Nove-s		+ TPH (Gas	8015B (G	18.1)	14.1)	AH)		3,NO ₂ ,	/ 8082		2			
	(Type)						1	爰.	80	141	d 5(r P	als	2	Ses		0			
Date	Time	Matrix	Sample Request ID		-	HEAL No.	BTEX + MTBE	BTEX + MTBE	TPH Method	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)			Air Blithin A
WIZ	0945	SOIL	TH 228'S 24W@8'	402×1	COUL	-001	X		X	İ							8	+	+-	++
11	1015	H	TH 108'S 30E @ 7'	1.0	t.c.	-002	X	$\neg \dagger$	$\frac{\lambda}{x}$					$\neg \uparrow$	\dashv		_	\dashv	+-	++
10	1032	l f	TH 52'N23E @8'	16	11	-003	X		シ						_		\dashv		+-	++
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י <i>טוןשיי</i> וו	necessary, s	apriples subm	INCLUM itted to Hall Environmental may be subco	otragian to other acc	WINKE	MIZIE (00 I								1211	۲ T	2A	<u> </u>			

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3657 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS Batch ID: 3657 RunNo: 5409

Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154770 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 1000 1000 102 84 116

Sample ID LCS-3657 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS Batch ID: 3657 RunNo: 5409

Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154771 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
 103
 74
 117

 Surr: BFB
 1100
 1000
 106
 84
 116

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209275

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3657 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 3657 RunNo: 5409 Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154791 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 1.000 104 Surr: 4-Bromofluorobenzene 1.0 80 120

Sample ID LCS-3657	Samp	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	n ID: 36	57	F	RunNo: 5	409				
Prep Date: 9/7/2012	Analysis [Date: 9/	10/2012	S	SeqNo: 1	54792	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.4	76.3	117			
Toluene	0.97	0.050	1.000	0	96.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	77	116			
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

RPD outside accepted recovery limits

Reporting Detection Limit

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

J

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



11au Environmeniai Analysis Laborator) 4901 Hawkins NE

Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Clie	nt Name: BLAGG	Work Order Number: 1209275
Rec	eived by/date: AF B 9/68//Z	
Log	ged By: Anne Thorne 9/8/2012 11:15:00	AM Am II-
Con	npleted By: Anne Thorne 9/10/2012	am Il-
Rev	iewed By: 09/15/12	3,1
<u>Cha</u>	in of Custody	
1.	Were seals intact?	Yes ☐ No ☐ Not Present 🗹
2.	Is Chain of Custody complete?	Yes ☑ No ☐ Not Present ☐
3.	How was the sample delivered?	Courier
<u>Log</u>	<u>In</u>	
4.	Coolers are present? (see 19. for cooler specific information)	Yes ✓ No ☐ NA ☐
5.	Was an attempt made to cool the samples?	Yes ☑ No ☐ NA ☐
6.	Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑ No ☐ NA ☐
7.	Sample(s) in proper container(s)?	Yes ✔ No □
8.	Sufficient sample volume for indicated test(s)?	Yes ☑ No □
-	Are samples (except VOA and ONG) properly preserved?	Yes ☑ No □
	Was preservative added to bottles?	Yes 🗌 No 🗹 NA 🗍
11	VOA vials have zero headspace?	Yes ☐ No ☐ No VOA Vials ☑
	Were any sample containers received broken?	Yes No V
	Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✓ No ☐ # of preserved bottles checked for pH:
14.	Are matrices correctly identified on Chain of Custody?	Yes ✓ No ☐ (<2 or >12 unless noted)
15.	Is it clear what analyses were requested?	Yes ☑ No ☐ Adjusted?
16.	Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ✓ No ☐ Checked by:
Spe	cial Handling (if applicable)	
17.	Was client notified of all discrepancies with this order?	Yes ☐ No ☐ NA 🗹
	Person Notified: Date	
	By Whom: Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
	Regarding:	
	Client Instructions:	
18.	Additional remarks:	
19.	Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 2.8 Good Yes	Seal Date Signed By

Lab Order 1209930 Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH 228'S 24W @ 8'

GCU 215 **Collection Date:** 9/20/2012 9:45:00 AM **Project:** 1209930-001 Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM Lab ID:

Analyses	Result	RL (Qual U	nits	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	950	9.8	r	ng/Kg	1	9/23/2012 10:03:58 PM
DNOP	122	77.6-140	r	ng/Kg	1	9/23/2012 10:03:58 PM
EPA METHOD 8015B: GASOLINE RA	NGE					Analyst: NSB
Gasoline Range Organics (GRO)	510	240	r	ng/Kg	50	9/27/2012 6:07:07 PM
BFB	167	84-116	S r	ng/Kg	50	9/27/2012 6:07:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.96	r	ng/Kg	20	9/26/2012 11:56:39 PM
Toluene	ND	0.96	r	mg/Kg	20	9/26/2012 11:56:39 PM
Ethylbenzene	ND	0.96	r	ng/Kg	20	9/26/2012 11:56:39 PM
Xylenes, Total	ND	1.9	r	mg/Kg	20	9/26/2012 11:56:39 PM
4-Bromofluorobenzene	110	80-120	r	ng/Kg	20	9/26/2012 11:56:39 PM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 6

Lab Order 1209930

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TH 108'S 30E @ 7'

Collection Date: 9/20/2012 10:15:00 AM

GCU 215 **Project:** Received Date: 9/21/2012 10:00:00 AM 1209930-002 Matrix: SOIL Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	SE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/23/2012 10:53:58 PM
DNOP	104	77.6-140	mg/Kg	1	9/23/2012 10:53:58 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/27/2012 6:35:55 PM
BFB	108	84-116	mg/Kg	1	9/27/2012 6:35:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	9/27/2012 12:54:01 AM
Toluene	ND	0.049	mg/Kg	1	9/27/2012 12:54:01 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/27/2012 12:54:01 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/27/2012 12:54:01 AM
4-Bromofluorobenzene	97.6	80-120	mg/Kg	1	9/27/2012 12:54:01 AM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 2 of 6

Lab Order 1209930

Date Reported: 10/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH 52'N 23E @ 8'

GCU 215 **Collection Date:** 9/20/2012 10:32:00 AM **Project:** 1209930-003 Matrix: SOIL Received Date: 9/21/2012 10:00:00 AM Lab ID:

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	660	9.7		mg/Kg	1	9/23/2012 11:19:06 PM
DNOP	108	77.6-140		mg/Kg	1	9/23/2012 11:19:06 PM
EPA METHOD 8015B: GASOLINE R	ANGE					Analyst: NSB
Gasoline Range Organics (GRO)	1400	480		mg/Kg	100	9/27/2012 7:04:41 PM
BFB	133	84-116	S	mg/Kg	100	9/27/2012 7:04:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	2.6	0.96		mg/Kg	20	9/27/2012 1:22:43 AM
Toluene	ND	0.96		mg/Kg	20	9/27/2012 1:22:43 AM
Ethylbenzene	15	0.96		mg/Kg	20	9/27/2012 1:22:43 AM
Xylenes, Total	160	1.9		mg/Kg	20	9/27/2012 1:22:43 AM
4-Bromofluorobenzene	125	80-120	S	mg/Kg	20	9/27/2012 1:22:43 AM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 2 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209930**

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-3882 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: Batch ID: 3882 RunNo: 5697 Prep Date: 9/22/2012 Analysis Date: 9/23/2012 SeqNo: 163829 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 ND DNOP 0 10.00 109 77.6 140 11

Sample ID LCS-3882 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: Batch ID: 3882 RunNo: 5697

Prep Date: 9/22/2012 Analysis Date: 9/23/2012 SeqNo: 163830 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 35 10 50.00 0 69.6 52.6 130 DNOP 4.7 0 5.000 0 93.5 77.6 140

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209930**

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-3881 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: Batch ID: 3881 RunNo: 5824

Prep Date: 9/22/2012 Analysis Date: 9/27/2012 SeqNo: 167530 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

BFB 990 0 1000 0 99.3 84 116

Sample ID LCS-3881 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: Batch ID: 3881 RunNo: 5824

Prep Date: 9/22/2012 Analysis Date: 9/27/2012 SeqNo: 167531 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 74 117 1000 0 1000 0 104 84 BFB 116

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209930**

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-3881	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	Batcl	n ID: 38	B1	R	RunNo: 5783					
Prep Date: 9/22/2012	Analysis Date: 9/26/2012			S	SeqNo: 1	66796	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
4-Bromofluorobenzene	1.0	0	1.000	0	99.7	80	120			
m,p-Xylene	ND	0.050								
o-Xylene	ND	0.050								
1,2,4-Trimethylbenzene	0.0097	0.050								
1,3,5-Trimethylbenzene	0.0078	0.050								

Sample ID LCS-3881	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID:	Batc	h ID: 38	81	F	RunNo: 5	783					
Prep Date: 9/22/2012	Analysis [Date: 9/	26/2012	5	SeqNo: 1	66797	Units: mg/k	ίg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.050	1.000	0	95.3	76.3	117				
Toluene	0.98	0.050	1.000	0	97.8	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	77	116				
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117				
4-Bromofluorobenzene	1.0	0	1.000	0	104	80	120				
m,p-Xylene	2.1	0.050									
o-Xylene	1.0	0.050									
1,2,4-Trimethylbenzene	1.0	0.050									
1.3.5-Trimethylbenzene	1.0	0.050									

Qualifiers:

P Sample pH greater than 2

R RPD outside accepted recovery limits

^{*} Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1209930 Received by/date: Logged By: Michelle Garcia 9/21/2012 10:00:00 AM Completed By: Michelle Garcia 9/21/2012 10:57:33 AM Reviewed By: -7 Chain of Custody 1. Were seals intact? Yes No Not Present Yes 🗸 No 🗌 2. Is Chain of Custody complete? Not Present 3. How was the sample delivered? Courier Log in 4. Coolers are present? (see 19. for cooler specific information) Yes 🗹 No 🗌 NA 🗆 5. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗔 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 NA 🔲 Yes 🗹 No 🗌 7. Sample(s) in proper container(s)? Yes 🗸 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🔽 No 🗌 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? Yes No 🗸 NA 🗍 11, VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials 🗹 Yes U No 🗹 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? Yes 🔽 No 🗌 Yes 🗸 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes 🗌 No 🔲 NA 🔽 Person Notified: Date: By Whom: Via: Phone Fax In Person Regarding: Client Instructions: 18, Additional remarks: 19. Cooler Information Cooler No | Temp °C Condition | Seal Intact | Seal No Seal Date Signed By Good

GEOPROBE

BORE HOLE LOGS

GP-1 through GP-31

BLAGG ENGINEERING, INC.

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

GP-1

BORE / TEST HOLE REPORT

BP AMERICA PRODUCTION CO. CLIENT:

UNIT M, SEC. 16, T29N, R12W

LOCATION NAME: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC. CONTRACTOR: MOBILE DRILL RIG - Geo Probe EQUIPMENT USED:

GCU # 215

BORING #.... MW#..... NA PAGE #..... 1 DATE STARTED 07/08/13 DATE FINISHED 07/08/13 OPERATOR.....

EQUIPMENT USE BORING LOCATION	-	U LE	RILL RIG ET, N27.	5 FRO	M WELL	HEAD.	LOGGED BY	
DEPTH & LITHOLOGY	MW s	SAMPLE ITERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6"	FIELD CLASSIFICATION A	ND REMARK	S
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 12 22 23 24 25 26 27 28 29 30		0 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0907		a necuvent	Dry SAND/SITY SAND SITT 4-5 CLAY 5-6 COARSE SAND 6-8, Water COLUT: SAMPLE 62-7 FOR OVM COARSE SAND, V. LITE GREE SAMPLE 9-92 FOR OVM DRAWING GCU 215-BLET 07-08-13. SKF	OVM C. 54.2/1 @ 092	rat al.

BLAGG ENGINEERING, INC.

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

6P-2

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME: CONTRACTOR: EQUIPMENT USED: BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG - GEOPROBE

181.5 FEET.N4DE FROM WELL HEAD.

BORING #..... MW#..... PAGE #......

DATE STARTED 07/08/13

DATE FINISHED 07/08/13 OPERATOR...... KP

LOGGED BY..... JCB

BORIN	G LOCATIO	N: 181.	,5' FE	EET,N40	EFRO	M WELL	HEAD.	LOGGED BY	
DEPTH	LITHOLOGY	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " 5 RECOVERY	FIELD CLASSIFICATION	NAND REMA	RKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			0 4 4 8	0945			SAND/SILTY SAND, DOLL SAND to COGUSE SAND, C 62 BAMPLE 62-7 For C DRAWING: GCU 215 BHOT 07-08-13.	water Sat	Wated LAB

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

UNIT M, SEC. 16, T29N, R12W

6P-3

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: FOLIPMENT USED: BP AMERICA PRODUCTION CO.

GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG - GEOPROBE

BORING#.....GP-3 MW #..... PAGE #..... DATE STARTED

07/08/13 DATE FINISHED 07/08/13

OPERATOR.....

555 12	JIPMENT USE		OBILE D				20BE	LOGGED BY JCB
BOR	RING LOCATIO	DN: [JU FE	EI,NZ	CFRO			74 252 75-54 18 2 2 2 3 M C 2
DEPTH	LITHOLOGY	MW	SAMPLE INTERVAL	SAMPLE TIME	FIELD	BLOW COUNT PER 6 "	FIELD CLASSIFICATION A	ND REMARKS
(FT.)	LITHOLOGY INTERVAL	SCHEMATIC		TIME:	(ppm)	& RECOVERY	GROUND SURFACE	
			0				SAND/SILTY SAND, Dry.	
1 +				1002				
2				1001				
3			4					
4			4				CLAY 4-6, Litely Plast	ic o
5				1 2/2-7			6-8' Silt to said, 6-62' Sauple for OVM = 1	Waster Saturated.
6				1007			10 1 Car DVM = 1	35.0 LAB
7							6-62 SAUPLE FOR ON-1-1	
8			8'					
9								
10 +								
11								
12								
13								
14								
15								
16			ĺ					
17								
18								
19		18.						
		,,,,,						
20 +		1						
21 —								
22								
23								
24								
25								
26								Mar Calle
								0 1014
27								@ 1014 54-1/100
28 +							8 (2 25)	3.77
29							6P03	
30 +							DRAWING: GCU 215 BH-0 07-08-13. SKF	DATE: 07/08/13 DWN BY: NJV

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

UNIT M, SEC. 16, T29N, R12W

68-4

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED:

BP AMERICA PRODUCTION CO.

GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG - GEOPROSE

119 FEET, NBE FROM WELL HEAD. BORING LOCATION:

BORING#	P-4 BH-T
MW#	NA
PAGE #	4×

DATE STARTED 07/08/13

DATE FINISHED __07/08/13

OPERATOR..... KP LOGGED BY..... JCB

D(JININ	G LOCATIO	JIN. I		-L1, N C	,		LOGGED B1 JCB
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION AND REMARKS GROUND SURFACE
1 - 2 - 3 - 4 -				0 4	1026			DAT Silt - Silty SAND CLAT to CLAY Silt Mix 4 - 7/2
5 - 6- 7- 8- 9-				8	1031			72- E, SAND, CONSY/BLACK, ODOR Water Soutrated @ 72 0-9- SAND, BLACK, Stroy HC ODOR OVM = 136
10 - 11 - 12 - 13 - 14 -				12"	[035]			9-12' Silt EUSAND MIX
15 - 16 - 17 - 18 - 19 -								
20 - 21 - 22 - 23 - 24 -								
25 - 26 - 27 - 28 - 29 - 30 -								DRAWING: GCU 215 BB-07 07-08-13. SKF DATE: 07/08/13 DWN BV: NJV

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

GP-5

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MW#....._ PAGE #...... 5X DATE STARTED 07/08/13 DATE FINISHED 07/08/13

BORING #..... - BH - 1

EQUIPMENT USED: MOBILE DRILL RIG - GEO PROBE							RORF	OPERATOR	KP	
			ONE II	U F	ET A 1/-	SEFRO	M WELL	HEAD.	LOGGED BY	
В	BORING LOCATION: 164 FEET, NG, 5 FROM WELL HEAD.									
DEPTH	INTERNAL	LITHOLOGY	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	OVM	BLOW COUNT PER 6 *	FIELD CLASSIFICATION A	AND REMARK	10
(FT.)	N.	INTERVAL	COTTEMPTITE	01		(ppm)	& RECOVERY	GROUND SURFACE		
1-								Silty SAND, Dry		
2 -					1059					
3-					1031					
				4						
4-				4-				Silt to Silty Clax, Litely Brown 4-734 Brack 734-8	MOST	
5				1				BROWN 4-73/4		
6-					1102			BLACK 73/4-8"		
7 -				21						
8 -			8	8'				SAND to Silty SAND		
9-								BLACK 8=9 OVM	=377 LA	B
10					1110			LiteGray 9-12		
11 -				Η,				LITEGREY Y-12		
12 -				12						
11						/ .				
13					14.10	N.				
14					70	30,		INHAIL 5 x Z" Scre	2012 4 5 P	5.
15								For Piezameter	**** O K	12 60-
16								FOR METAMETER.		
17										
18 -		i								
19 -										
20										
21			{							
22 -										
23										
24										
25										
									lovm c	a lik
26									OVM 0	Tuna
27										WU
28								~ ~ ~ ~	1135	
29								69-05	<u> </u>	
30								DRAWING: GCU 215 BP 01 07-08-13. SKF	DATE: 07/08/13 DWN	BY: NJV

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

6P-6

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED:

BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG -/ GEOPROBE

BORING #.... MW#.....

PAGE #..... 07/08/13

DATE STARTED

DATE FINISHED 07/08/13

OPERATOR.....

	RORIN	G LOCATIO		54 FE				. HEAD.	LOGGED BY	JCB
DEPTH		LITHOLOGY	MW.	SAMPLE	SAMPLE	FIELD	BLOW	FIELD CLASSIFICATION A	ND REMARK	S
(FT.)	INTERVAL	INTERVAL	SCHEMATIC	INTERVAL	TIME	(ppm)	PER 8 * & RECOVERY	GROUND SURFACE		
				0'				Silty SAND - Dry		
2				1						
3				u-					Ä.	
· · · · · · · · · · · · · · · · · · ·	!			41-				Litely Moist Silty SAM	N)	
5					1404					
6					1 /4					
7		1		01						
8				8					of Th	,
9	+				1410			8-10' silt to silty	Clay - 1xx	,
10					1910			W-12" SAND, Water So Gray SAMPLE 10-11 For	iterated, Li	te
11								Gray -	= 1	
12				12				Sample 10-11 for	r OVM = O.	.0
13	-									
14										
15	+	1								
16	-		1							
17	-	1								
18	-									
19										
20			2 "							
21										
22										
23										
24										
25										
26				1						
27	_									
28								ë*		
29								69-06		
30									DATE: 07/08/13 DWN BY	r: NJV

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

6207

BORING #..... MW#.....

PAGE #....

DATE STARTED

DATE FINISHED 07/08/13

OPERATOR..... KP LOGGED BY...... JCB

BORE / TEST HOLE REPORT

CLIENT: LOCATION NAME:

CONTRACTOR:

BP AMERICA PRODUCTION CO. GCU # 215

UNIT M, SEC. 16, T29N, R12W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

EQUIPMENT USED:

MOBILE DRILL RIG - GEO PROBE

BORING LOCATION:

201.5 FEETN8° E FROM WELL HEAD.

DEPTH SE LITHOLOGY INTERVAL	MW SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 *	FIELD CLASSIFICATION AND REMARKS GROUND SURFACE
£			OVM	COUNT PERS & RECOVERY	
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30					DRAWING: GCU 215. BH 07 07-08-13. SKF DATE: 07/08/13 DWN BY: NJV

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



BORING #.....

DATE STARTED

DATE FINISHED

MW#.....NA PAGE #.....

BORE / TEST HOLE

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED: BORING LOCATION: BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG - 6EOPROBE 238 FEFT NGE FROM WELL HEAD

DRAWING: GCU 215 BH-01 07-08-13. SKF | DATE: 07/08/13 | DWN BY: NJV

07/08/13 07/08/13

BH - 1

OPERATOR..... LOCGED BY

BC	DRIN	G LOCATIO	DN: 2	38 F	EET, N9	E FRO	M WELL	HEAD.	LOGGED BY	JCB
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm.)	BLOW COUNT PER 6 * & RECOVERY	FIELD CLASSIFICATION A	AND REMARK	S
1 - 2 - 3 - 4 -				9	1448			Dry Silty SAND		
5 - 6- 7-				4	1452			5-6 Moist CLAY 6-8' Silty SAND, Moist,	16.	
8 - 9 - 10 - 11 - 12 -				0 0 - 2	1455			Recover 2 10-102 Silt, TAN 102-12 SAND to Silt Saturated, Life Gr		
13 - 14 - 15 - 16 -			-					= = 4.	LA	B_
17 - 18 - 19 - 20 -										
21 - 22 - 23 - 24 -								,		
25 - 26 - 27 - 28 - 29 -								6P-08	0VM C 150Z 5Z.8/	ALIB 100

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

GP-9

BORE / TEST HOLE

BORING # GP- 3 MW#....____ PAGE #.....

CLIENT: LOCATION NAME: BP AMERICA PRODUCTION CO. UNIT M, SEC. 16, T29N, R12W GCU # 215

DATE STARTED

DWN BY: NJV

DATE

CONTRACTOR: EQUIPMENT USED: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC. MOBILE DRILL RIG - GEOPPIOBE

DATE FINISHED OPERATOR.....

A-10-10-10-10-10-10-10-10-10-10-10-10-10-	ING LOCATION	-	FE	ET,	FRO	M WELL	HEAD. LN	LOGGED BY NTV
	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	ND REMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			0 4 4 8 8 1 2	0907	161	_	5-6.5' CLRY, MOD. BRA, MO 6.5-7.75' SILT, POLE YELL. DRI 7.75-9' OK. GR. TO BLR 4'-10' LT. GRAY SRAD, WET 10'-12' OLIVE GRAY 55-C, WILL RECORD BOR NEXT MORNING (M FLAGGING PIN).	WET LOCATION

DRAWING:

P.O. BOX 87 BLOOMFIELD, NM 87413 GP-10

(505) 632-1199

BO)F	RE/	TES	T	H	OL	E	REPORT	BORING #	NA_
L(C(E(ONTR JUIPI	ON NAME ACTOR: MENT USE LOCATIO	: G B D: M	CU#2° LAGG E OBILE D	5 NGINEE RILL RI	RING, IN	GEOF	UNIT M, SEC. 16, T29N, R12W EK ENERGY SERVICES, INC. PROSE HEAD.	DATE STARTED DATE FINISHED OPERATOR LOGGED BY	7/9/13 KP
DEPTH (FT.)	NTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	ND REMA	RKS
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30				0 - 4 4 - 8 8 - 12	σ 1 38	156.(_	DRY 55 5-6' DYO 55-5C, MOIS 6-7' MOD. BREN 55, SLIGHT 7-8' DK. GRAY TO BLK 55-1 9'-11' LT. GRAY SAMP., S 11'-12' LT. GRAY CLOY, S WILL RECORD BORN NEXT MORNING FLAGGING PIN).	SC, MOIST SATUR. ME LOCAT (MARKED	non

P.O. BOX 87 BLOOMFIELD, NM 87413 GP-11

BORING #..... GP-11

(505) 632-1199

BO	DR	E /	TES	T	H	OL	E	REPORT	BORING #	GP-11 NA
L(C(E(ONTRA QUIPME	N NAME CTOR: ENT USE LOCATIO	: G B :D: N	CU#2 LAGG E OBILE D	15 Nginee	RING, IN	GEOR	UNIT M, SEC. 16, T29N, R12W EK ENERGY SERVICES, INC. COST . HEAD.	PAGE # DATE STARTE DATE FINISHE OPERATOR LOGGED BY	ED 7/4/13. ED KP
DEPTH (FT.)		THOLOGY NTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	AND REM	ARKS
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 30				0 - 4 4 - 8 8 - 2	O O	19.7		GRP 4-5' 5'-6' DYO SAND TO SE 6'-6.5' DYO SS-5C, P 6.5'-8' DYO SAND TO SE 8'-9' - SAA 9.5'-11' PYO SILT, WET 11'-12' LT. GRAY SAND, WILL RECORD BORING FLAGGING PIN), NEXT MORNING: N 311 NS.SE F	TO SATUR. SATUR.	701

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

6P-1Z

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

BORING#...... MW#..... PAGE #.....

DATE STARTED

DATE FINISHED

12 0 1	ENT USE	D: M	MOBILE DRILL RIG - GEOP				of ROBE	OPERATOR	
10.000000000000000000000000000000000000	LOCATIO		FE	ET,			HEAD.	LOGGED BY	NJV
	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	AND REMA	RKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29			0 44 88 12	695	15/	1	1-15' GAP 5-6' DYO 55-5C, 6-7' MOD. BRW 55 8-9' GAP 9-11' VERY LITE GRAY 11-12' "" WILL RECORD BORNA NEXT MORNING (N FLATELING PIA). ~ 304', N18.5E 7	MOIST SAND, SAT SC, SAT SC, SAT ARRED WELL	UR- FUL.
30							DRAWING: I	DATE:	DWN BY: NJV

P.O. BOX 87 BLOOMFIELD, NM 87413

GP-13

(505) 632-1199

B	OF	RE/	TES	T	H	OL	E	REPORT	BORING # GP-13 MW# NA
L	ONTR	ON NAME	: G B	CU # 21 LAGG E	15 NGINEE		C. / KYVI	UNIT M, SEC. 16, T29N, R12W EK ENERGY SERVICES, INC.	PAGE #
		MENT USE G LOCATIO				G - G		HEAD. 2-N W	LOGGED BY
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 8 " & RECOVERY	FIELD CLASSIFICATION A	ND REMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				BOR	REC ING	O.O.	FOR FROM	TO - TOTAL DEPTH OTW - DEPTH TO WAT A.G.S ABOUE GROW B.G. J BELOW T.O.C TOP OF PUR T.O.C TOP OF PUR	TOC OR - 14.35' TOC OR - 14.35'

P.O. BOX 87 BLOOMFIELD, NM 87413

GP - 14

DWN BY: NJV

DATE:

(505) 632-1199

BO)F	RE/	TES	T	Н	OL	E	REPORT	BORING # GP-14 MW# ~ A
С	LIENT	Tr.				PRODU	JCTION		PAGE # 14 DATE STARTED 2/9/63
		ION NAME		CU#2	A	BING IN	ic / KYV	UNIT M, SEC. 16, T29N, R12W EK ENERGY SERVICES, INC.	DATE FINISHED
		RACTOR: MENT USE	_		ORILL RI	OPERATOR KP			
В	ORIN	G LOCATIO	N: 7	4.4 FI	EET,	LOGGED BY NTV			
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 8 " & RECOVERY	FIELD CLASSIFICATION A	ND REMARKS
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 0 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 29 - 29 - 29 - 29 - 29 - 29	AN .			0 4 4 8 8 1 12	(শ্রেম্বর্ড ব্		8-7	U-S'GAP 5'-55' MOD. BEN 50-C 55-6' THE BOX. GRAY TO BLK S 8-9' GAP 9-10' OLIVE GRAY 55-50 10'-12' " 5AND, 5A - SAME AS	NERY MUNT TO WET

DRAWING

P.O. BOX 87 BLOOMFIELD, NM 87413

GP-15

(505) 632-1199

B)F	RE/	TES	T	H	OL	E	REPORT	MW#	1 -
L C E	ONTF	T: ION NAME RACTOR: MENT USE G LOCATIO	E: G B ED: M	GCU#2 ILAGG E	15 NGINEE DRILL RI	RING, IN		UNIT M, SEC. 16, T29N, R12W FEK ENERGY SERVICES, INC. HEAD 539.5E (140.5°)	PAGE # DATE STARTE DATE FINISHE OPERATOR LOGGED BY	D 7/8/3 D KP NSV
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 8 * & RECOVERY	FIELD CLASSIFICATION A	AND REMA	ARKS
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30		(AB)		0 - 4 4 - 8 8 - 2	\332	0.4		DRY SS 4-45' GAP 4-5-6' MOD. BRN SC-C 6'-7' PRIE YELL. ARDJER 7-8' OLIVE GRAS SILT, 8-85' GAP 8.5-12' LT. GRAY SAMO,	WET TO SA	TUR.

P.O. BOX 87 BLOOMFIELD, NM 87413

GP-16

(505) 632-1199

BOF	RE/	TES	T	Н	OL	E	REPORT	BORING# GP-16 MW# NA
CONTR EQUIPI	T: ION NAME RACTOR: MENT USE G LOCATIO	UNIT M, SEC. 16, T29N, R12W EK ENERGY SERVICES, INC. HEAD. 2-55E (175°)	PAGE #					
DEPTH (FT.)	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	ND REMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			0	1410	115.6,78		DRAWING DRAWIN	moist moist

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

GP-17

BOF	RE/	TES	31	H	OL	<u>.</u> E	REPORT	MW#
CONTR EQUIP	T: TON NAME RACTOR: MENT USE G LOCATIO	: G B D: M	PAME CU#2 LAGG E OBILE D	15 NGINEE DRILL RI	PAGE #			
DEPTH (FT.)	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 8 " & RECOVERY	FIELD CLASSIFICATION A	AND REMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30			8 - 12	WILL BORIN WEXT	MOR	7-8 PD 00 BT 10 B 10 10 B 2 C3	BORING ADVANCED. TOC ~ A. G. S. TOC ~ A. G. S. TOC ~ FRITO B. G. S. TOC - TOP OF PIC CASH OTW - DEPTH TO WATER AGS = ABOUT BROWND SW. B. G. S. = BELOW "	HD, MOIST SS-SC, MOIST DET, HC ODOR Y SOND, SATUR., NO HC ODOR XZ BUC SLOTTED Z" PUC CASING CAP WITHIN

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

UNIT M, SEC. 16, T29N, R12W

GP-18

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

BP AMERICA PRODUCTION CO.

GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

BORING #..... 6P-18

PAGE #.....

DATE STARTED

DATE FINISHED

						RIG - GEOPROBE						= ==	VIE LIMO	_	
		MENT USE										_ OF	PERATOR		KP
В	ORIN	G LOCATION	ON:	237.	5 FEET	21	3.5W	FRON	WELL HE	AD.		_ LO	GGED BY	<i>_</i>	NIV
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIE		ASSIFI D SURFACE	CATION	INA	D REM	//ARK	(S
1 - 2 - 3 - 4 - 5 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 30 - 10 - 10 - 10 - 10 - 10 - 10		LAB		0' 4' 8' 8'	0945	0.0		4'- 56.5'- 7.5'- 8'-	15 65 F 6 6 A P	2	51LT, 6.5') .BIN 51	and, a	MOIST MOIST FIME	B. 0 991	M 50

P.O. BOX 87

GP-19

DWN BY: NJV

DATE

BLOOMFIELD, NM 87413 (505) 632-1199 BORING #...... 6P-19 BORE / TEST HOL MW#....._ BP AMERICA PRODUCTION CO. CLIENT: DATE STARTED UNIT M, SEC. 16, T29N, R12W GCU # 215 LOCATION NAME: DATE FINISHED BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC. CONTRACTOR: MOBILE DRILL RIG OPERATOR..... EQUIPMENT USED: 256.5 FEET, FROM WELL HEAD. LOGGED BY...... NTV BORING LOCATION: 527W FIELD CLASSIFICATION AND REMARKS SAMPLE INTERVAL SAMPLE LITHOLOGY DEPTH COUNT PER 6* SCHEMATIC (FT.) INTERVAL DRY 1 2 4' 3 4 41 4.5-8' MOD. BRN 55-C, MOIST 6 7.5-7 1029 0.0 LAB 8 9-9-5' SA (4.5-8') 9-5-12' PALE YELL DRANGE SAND, WET TO SATUR. 9 10 11 12 12 13 14 15 16 17 18 19

DRAWING

P.O. BOX 87 BLOOMFIELD, NM 87413 GP-20

(505) 632-1199

BO)F	RE/	TES	T	Н	OL	E	REPORT	BORING# GP-Z MW# AA	0
L(C E	LIEN OCAT ONTF QUIPI ORIN	DATE STARTED 7/10/ DATE FINISHED OPERATOR	///3							
DEPTH (FT.)	INTERVAL	LITHOLOGY	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	ND REMARKS	
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 30				0 4 4 8 8 2	1106	0,0		DRY SS 1-4.5' GRP 15-7.5 MOD. BRN 35-5 7.5'-8' PALE YELL. BRN 58 8-9' GRP 9'-10' DK. YEUL. BRN 58 110'-12' PALE YELL. BRN 58 110'-12' PALE YELL. BRN 58 110'-12' PALE YELL. BRN 58 100-12' PALE YELL. BRN	ON TOC OR	

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

GP-21

BORE / TEST HOLE REPORT

MOBILE DRILL RIG

MW #....._

BORING # GP-Z(

CLIENT:

BP AMERICA PRODUCTION CO GCU # 215

PAGE #.....

LOCATION NAME: CONTRACTOR:

UNIT M, SEC. 16, T29N, R12W

DATE STARTED

EQUIPMENT USED:

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

DATE FINISHED OPERATOR.....

BORING LOCATION:

POO > FEET STATIO FROM WELL HEAD

LOGGED BY

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

GP-22

BORE / TEST HOLE REPORT

BORING # GP- ZZ MW#.....NA

CLIENT:

BP AMERICA PRODUCTION CO.

PAGE #..... 27

LOCATION NAME: CONTRACTOR:

UNIT M. SEC. 16, T29N, R12W

DATE STARTED 7/10/13

EQUIPMENT USED:

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

KP

MOBILE DRILL RIG

GCU # 215

DATE FINISHED OPERATOR.....

В	BORING LOCATION:		DN: \(\frac{1}{2}\)	59.4	FEET	58	S	FROM WELL HEAD.	LOGGED BY	VIM
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 ** & RECOVERY	FIELD CLASSIFICATION A	AND REMAF	RKS
1 - 2 - 3 - 4 - 5 -								CONVENTIONAL AUG	using SERS.	
6 - 7 - 8 - 9 -								COMPETENT BEORDEK	B.6.5.	
10 - 11 - 12 - 13 -				3				WELL PAD SWAFACE	•	
14 - 15 - 16 - 17 - 18 - 19 -								NO JAMPLES CO	occepto)	2
20 - 21 - 22 - 23 - 24 -										
25 - 26 - 27 - 28 - 29 - 30 -								DRAWING: DA	STE: DWI	iby: NJV

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

GP- 23

BORE / TEST HOLE REPORT BORING #..... MW#.... PAGE #..... BP AMERICA PRODUCTION CO. CLIENT: DATE STARTED GCU # 215 UNIT M, SEC. 16, T29N, R12W LOCATION NAME: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC. CONTRACTOR:

FOLIPMENT USED: MOBILE DRILL RIG DATE FINISHED

DEPTH S LITHOLOGY SCHEMATIC SCHEMATIC STORM SCHEMATIC STORM SCHEMATIC STORM SCHEMATIC		EQUIPMENT USED:			OBILE D	AND					OPERATO	R	KP	
	В	ORIN	G LOCATIO	DN:	128	FEET,	28	OE	FROM WEL	L HEAD.		LOGGED	BY	NIN
1 2 3 4 4 5 5 6 7 4 7 7 5 8 6 6 7 8 6 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		INTERVAL			INTERVAL	SAMPLE TIME	OVM	COUNT PER 6."				N AND RE	MAR	KS
DRAWING: DATE: DWN BY: NJV	2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 28 - 28 - 28 - 28 - 28 - 28				4'					BEDRI	PEPENCY (TO DETER	B. G.	.5 .

P.O. BOX 87 BLOOMFIELD, NM 87413

GP- Z4

DWN BY: NJV

DATE

(505) 632-1199

BORE / TEST HOLE R	
CLIENT: LOCATION NAME: CONTRACTOR: EQUIPMENT USED: BORING LOCATION: BP AMERICA PRODUCTION CO GCU # 215 BLAGG ENGINEERING, INC. / KYVEK EN MOBILE DRILL RIG FEET, FRO	UNIT M, SEC. 16, T29N, R12W
DEPTH LITHOLOGY MW SAMPLE SAMPLE FIELD OVM O	ELD CLASSIFICATION AND REMARKS GROUND SURFACE
	ATTEMPTED TO UTILIZE PASH THBING FOR SAMPLE UNTIL REFUSAL & 3' B.G.S. SWITCHED TO AUGUS LOCILLED TO ZO' NO DISCOLDRED SOILS OBSTERVED WIPD CUTTINGS. WILL SET Z" PUC WIN BORING FOR PIEZOMETER.

DRAWING:

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

GP-25

BORE / TEST HOLE

BP AMERICA PRODUCTION CO.

BORING # 6P-25 AL MW #..... 25

CLIENT: LOCATION NAME: UNIT M, SEC. 16, T29N, R12W

PAGE #..... 7/12/13 DATE STARTED

CONTRACTOR:

GCU # 215 BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC. 6. E. DODORE

DATE FINISHED OPERATOR

EQUIPMENT USED:	MOBILE D	RILL RIG	-6	EOPI	70BE		OR KP
BORING LOCATION:	69	FEET,	NI	N	FROM WELL HEAD.	LOGGED) BY りひく
DERTH & LITHOLOGY	MW SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 * & RECOVERY	FIELD CLASSIFICATION	AND R	EMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	8' 8'	0829	509	7.5-8	DRY 55 4'-6' GAP 6'+7-6' MOD. BRN 50 7.6-8' MED. TO DIV. GRAY 8'-9.5' BAP 9.5-11'S' LT. OLIVE GRAY JAN 10.5'-12' OLIVE GRAY JAN RF	ND, WET	CALIB.

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

GP- 26

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED: BORING LOCATION:

BP AMERICA PRODUCTION CO.

GCU#215

UNIT M, SEC. 16, T29N, R12W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG - GEOPLOBE

60 FEET, N367 FROM WELL HEAD.

LOGGED BY...... ルズ

FIELD CLASSIFICATION AND REMARKS LITHOLOGY MW SAMPLE DEPTH SAMPLE SCHEMATIC INTERVAL (FT.) GROUND SURFACE DRY 55 1 2 3 81 4 4'-5' GAP 41 5 5-5.5' DYO 55-5C, MOIST 5'-7' DK. GRAY SC-5ILT, MUST TO WET 7'-8' OLIVE GRAY SAND, WET TO SATUR LAB 6 8' 7 8 9 0908 66.3 9-10 9-10 UT. TO OLIVE GRAY SIET, MOIST TO WET LAB 10 10'-12' OLIVE GRAY SAND, SATUR. 11 12' 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 DRAWING: DWN BY: NJV

P.O. BOX 87 BLOOMFIELD, NM 87413

GP- Z7

DWN BY: NJV

DATE:

	(505) 632-1199												
BO)F	RE/	TES	ST	Н	OL	E	REPORT	BORING# GP-Z7				
L(C)	ONTF QUIP	ION NAME RACTOR: MENT USE G LOCATIO	: G B :D: M	CU#2 LAGGE	ERICA F 15 NGINEE DRILL RI FEET	DATE STARTED 7/12/13 DATE FINISHED OPERATOR KP LOGGED BY NTV							
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	COUNT PER 6 " & RECOVERY	FIELD CLASSIFICATION A	AND KEINIAKKS				
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 18 - 18 - 18 - 18 - 18 - 18		LAB,		0' 4' 8' 8'	0934 0943 0 9 45	489 418 46.1	6.5	DRY 55 4-5' GAP 5-6' DYO SILT, MOIST 6-6.5' DYO SILT TO CLA 6.5=8' BLIK TO DK GRAY (MOIST 8-9' GAP 9-10' DKI. GRAY SAND, W 10-10.5' OLIVE GRAY CLAY 10.5-12' " SILT TO	TO MOIST TO STONE, ET, SATUR.				

DRAWING

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

6P-28

BORE / TE	ST HOLE REPORT	BORING# GP-28
CLIENT: LOCATION NAME:	BP AMERICA PRODUCTION CO. GCU # 215 UNIT M, SEC. 16, T29N, R12W	PAGE # ≥8 DATE STARTED 7/≥/13
CONTRACTOR:	BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.	DATE FINISHED
EQUIPMENT USED:	MOBILE DRILL RIG	OPERATOR KP
BORING LOCATION:	88 FEET, 519.5E FROM WELL HEAD.	LOGGED BY NJV

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

GP- 29

BORE / TEST HOLE

CLIENT:

LOCATION NAME:

CONTRACTOR: EQUIPMENT USED: BP AMERICA PRODUCTION CO.

GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

BORING LOCATION:

FEET,

UNIT M, SEC. 16, T29N, R12W

BORING # GP - 29 MW#..... NA

PAGE #.....

DATE STARTED 7/13/13

DATE FINISHED

SOUTH OF FROM WELL HEAD.

OPERATOR..... KP

LOGGED BY...... GOI TAVASX3 FIELD CLASSIFICATION AND REMARKS LITHOLOGY SAMPLE SAMPLE DEPTH COUNT PER 6" INTERVAL SCHEMATIC INTERVAL (FT.) 0 DRY 55 1 2 3 4 4 41 5 MOD. BRN CLAY MOTST 6 7 OK . GROTTO BLK 55-CLAY MOIST 1243 922 7-8 8 LOB 9 1245 8.0 9-10 9'-10' CT. TO OLIVE GRAY SAND, WET TO SATUR. 10 LAB 11 12' 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 DRAWING: DWN BY: NJV

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

GP-30

BORE/TEST HOLE REPORT

CLIENT:

LOCATION NAME:

CONTRACTOR: EQUIPMENT USED:

BORING LOCATION:

BP AMERICA PRODUCTION CO.

GCU # 215

UNIT M, SEC. 16, T29N, R12W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

191.5 FEET, 532.5W FROM WELL HEAD.

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 * 8 RECOVERY	FIELD CLASSIFICATION AND REMARKS GROUND SUITFACE
1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 30				4 8 8 12	1300	54Z 328		DRAMMO DATE DATE DATE DATE DATE DATE DATE DATE

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

GP-31

BORE / TEST HOLE REPORT

CLIENT:

LOCATION NAME:

EQUIPMENT USED:

BP AMERICA PRODUCTION CO. GCU # 215

UNIT M, SEC. 16, T29N, R12W CONTRACTOR: BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

BORING# 67-31 MW#..... _NA 3(PAGE #....._ 7/12/13 DATE STARTED DATE FINISHED

OPERATOR..... KP

	BORIN	G LOCATIO	ON:	25	_ FEE1	, 57	IM	FROM WELL HEAD.	LOGGED BY ルプリ
DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	SAMPLE INTERVAL	SAMPLE TIME	FIELD OVM (ppm)	BLOW COUNT PER 6 * & RECOVERY	FIELD CLASSIFICATION GROUND SURFACE	AND REMARKS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30				0 4 7 8 8 8 2	1328	342 329 95	×	DRY JS 4-5' GAP 5"-7' PYO SILT, MOIT 7'-8' OLIVE GRAY TO BI MOIST TO WET 8-10.5' BLK SAND, OF 10.5-12' OLIVE GRAY	LIC CLAY TO SOND, SET TO SOTUR.
00					= =			DRAWING:	DATE: DWN BY: NJV

GEOPROBE

LABORATORY

RESULTS

Lab Order 1307552

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-01 @ 6.5'-7'

 Project:
 GCU #215
 Collection Date: 7/8/2013 9:12:00 AM

 Lab ID:
 1307552-001
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	15	10	mg/Kg	1	7/15/2013 11:57:18 PM	√ 8347
Surr: DNOP	79.4	63-147	%REC	1	7/15/2013 11:57:18 PM	M 8347
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	24	4.7	mg/Kg	1	7/16/2013 5:40:49 PM	8345
Surr: BFB	282	80-120	S %REC	1	7/16/2013 5:40:49 PM	8345
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	7/16/2013 5:40:49 PM	8345
Toluene	ND	0.047	mg/Kg	1	7/16/2013 5:40:49 PM	8345
Ethylbenzene	ND	0.047	mg/Kg	1	7/16/2013 5:40:49 PM	8345
Xylenes, Total	ND	0.094	mg/Kg	1	7/16/2013 5:40:49 PM	8345
Surr: 4-Bromofluorobenzene	116	80-120	%REC	1	7/16/2013 5:40:49 PM	8345

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit $Page \ 1 \ of \ 10$
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307552

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-02 @ 6.5'-7'

 Project:
 GCU #215
 Collection Date: 7/8/2013 9:45:00 AM

 Lab ID:
 1307552-002
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analy	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/16/2013 12:19:03 A	M 8347
Surr: DNOP	85.5	63-147	%REC	1	7/16/2013 12:19:03 A	M 8347
EPA METHOD 8015D: GASOLINE RA	NGE				Analy	st: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/16/2013 1:44:44 AN	1 8345
Surr: BFB	97.0	80-120	%REC	1	7/16/2013 1:44:44 AN	1 8345
EPA METHOD 8021B: VOLATILES					Analy	st: DAM
Benzene	ND	0.047	mg/Kg	1	7/16/2013 1:44:44 AN	1 8345
Toluene	ND	0.047	mg/Kg	1	7/16/2013 1:44:44 AN	1 8345
Ethylbenzene	ND	0.047	mg/Kg	1	7/16/2013 1:44:44 AN	1 8345
Xylenes, Total	ND	0.093	mg/Kg	1	7/16/2013 1:44:44 AN	1 8345
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	7/16/2013 1:44:44 AN	1 8345

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

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

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

Lab Order 1307552

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** GP-03 @ 6'-6.5'

Project: GCU #215 **Collection Date:** 7/8/2013 10:07:00 AM Matrix: SOIL Lab ID: 1307552-003 **Received Date:** 7/11/2013 9:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG					Analys	: JME	
Diesel Range Organics (DRO)	53	10		mg/Kg	1	7/16/2013 1:02:29 AM	8347
Surr: DNOP	89.6	63-147		%REC	1	7/16/2013 1:02:29 AM	8347
EPA METHOD 8015D: GASOLINE RA					Analys	t: NSB	
Gasoline Range Organics (GRO)	73	4.8		mg/Kg	1	7/16/2013 6:09:26 PM	8345
Surr: BFB	618	80-120	S	%REC	1	7/16/2013 6:09:26 PM	8345
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.048		mg/Kg	1	7/16/2013 6:09:26 PM	8345
Toluene	ND	0.048		mg/Kg	1	7/16/2013 6:09:26 PM	8345
Ethylbenzene	0.17	0.048		mg/Kg	1	7/16/2013 6:09:26 PM	8345
Xylenes, Total	0.92	0.097		mg/Kg	1	7/16/2013 6:09:26 PM	8345
Surr: 4-Bromofluorobenzene	130	80-120	S	%REC	1	7/16/2013 6:09:26 PM	8345

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 3 of 10 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307552**

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-04 @ 8'-9'

 Project:
 GCU #215
 Collection Date: 7/8/2013 10:35:00 AM

 Lab ID:
 1307552-004
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG				Analyst	: JME	
Diesel Range Organics (DRO)	860	10	mg/Kg	1	7/16/2013 1:24:08 AM	8347
Surr: DNOP	89.7	63-147	%REC	1	7/16/2013 1:24:08 AM	8347
EPA METHOD 8015D: GASOLINE RA				Analyst	: NSB	
Gasoline Range Organics (GRO)	2000	480	mg/Kg	100	7/15/2013 12:25:27 PM	8356
Surr: BFB	127	80-120	S %REC	100	7/15/2013 12:25:27 PM	8356
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	4.9	4.8	mg/Kg	100	7/15/2013 12:25:27 PM	8356
Toluene	ND	4.8	mg/Kg	100	7/15/2013 12:25:27 PM	8356
Ethylbenzene	14	4.8	mg/Kg	100	7/15/2013 12:25:27 PM	8356
Xylenes, Total	180	9.7	mg/Kg	100	7/15/2013 12:25:27 PM	8356
Surr: 4-Bromofluorobenzene	106	80-120	%REC	100	7/15/2013 12:25:27 PM	8356

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 10
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307552

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-05 @ 8'-9'

Project: GCU #215 **Collection Date:** 7/8/2013 11:10:00 AM Matrix: SOIL Lab ID: 1307552-005 **Received Date:** 7/11/2013 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI				Analyst	: JME	
Diesel Range Organics (DRO)	510	10	mg/Kg	1	7/16/2013 1:45:56 AM	8347
Surr: DNOP	82.5	63-147	%REC	1	7/16/2013 1:45:56 AM	8347
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	1400	230	mg/Kg	50	7/15/2013 12:54:03 PM	8356
Surr: BFB	164	80-120	S %REC	50	7/15/2013 12:54:03 PM	8356
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	2.3	mg/Kg	50	7/15/2013 12:54:03 PM	8356
Toluene	ND	2.3	mg/Kg	50	7/15/2013 12:54:03 PM	8356
Ethylbenzene	8.5	2.3	mg/Kg	50	7/15/2013 12:54:03 PM	8356
Xylenes, Total	110	4.7	mg/Kg	50	7/15/2013 12:54:03 PM	8356
Surr: 4-Bromofluorobenzene	108	80-120	%REC	50	7/15/2013 12:54:03 PM	8356

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 5 of 10 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307552

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** GP-07 @ 7.5'-9'

Project: GCU #215 **Collection Date:** 7/8/2013 2:25:00 PM Matrix: SOIL Lab ID: 1307552-006 **Received Date:** 7/11/2013 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG				Analyst	: JME	
Diesel Range Organics (DRO)	730	10	mg/Kg	1	7/16/2013 2:07:32 AM	8347
Surr: DNOP	87.8	63-147	%REC	1	7/16/2013 2:07:32 AM	8347
EPA METHOD 8015D: GASOLINE RA				Analyst	: NSB	
Gasoline Range Organics (GRO)	1900	480	mg/Kg	100	7/15/2013 1:22:41 PM	8356
Surr: BFB	165	80-120	S %REC	100	7/15/2013 1:22:41 PM	8356
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	4.8	mg/Kg	100	7/15/2013 1:22:41 PM	8356
Toluene	ND	4.8	mg/Kg	100	7/15/2013 1:22:41 PM	8356
Ethylbenzene	9.7	4.8	mg/Kg	100	7/15/2013 1:22:41 PM	8356
Xylenes, Total	120	9.6	mg/Kg	100	7/15/2013 1:22:41 PM	8356
Surr: 4-Bromofluorobenzene	107	80-120	%REC	100	7/15/2013 1:22:41 PM	8356

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 6 of 10 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307552

Received Date: 7/11/2013 9:45:00 AM

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-08 @ 10.5'-12'

Project: GCU #215 **Collection Date:** 7/8/2013 2:55:00 PM

Matrix: SOIL

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) 7/16/2013 2:29:25 AM 9.9 mg/Kg 8347 Surr: DNOP 84.2 63-147 %REC 7/16/2013 2:29:25 AM 8347 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 48 mg/Kg 10 7/15/2013 1:51:22 PM 8356 Surr: BFB 114 80-120 %REC 7/15/2013 1:51:22 PM 8356 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.48 mg/Kg 10 7/15/2013 1:51:22 PM 8356 Toluene ND 0.48 mg/Kg 7/15/2013 1:51:22 PM 8356 Ethylbenzene ND 0.48 mg/Kg 10 7/15/2013 1:51:22 PM 8356 Xylenes, Total ND 0.95 mg/Kg 7/15/2013 1:51:22 PM 8356 Surr: 4-Bromofluorobenzene 99.7 80-120 %REC 10 7/15/2013 1:51:22 PM 8356

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

Qualifiers:

Lab ID:

1307552-007

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 7 at
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307465**

Date Reported: 7/12/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-10@7'-8'

 Project:
 GCU # 215
 Collection Date: 7/9/2013 9:38:00 AM

 Lab ID:
 1307465-001
 Matrix: MEOH (SOIL)
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	120	10		mg/Kg	1	7/11/2013 11:01:52 Al	Л 8310
Surr: DNOP	79.7	63-147		%REC	1	7/11/2013 11:01:52 A	A 8310
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	310	25		mg/Kg	5	7/11/2013 11:11:35 Al	/I R11852
Surr: BFB	693	80-120	S	%REC	5	7/11/2013 11:11:35 A	/I R11852
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.12		mg/Kg	5	7/11/2013 11:11:35 Al	/I R11852
Toluene	ND	0.25		mg/Kg	5	7/11/2013 11:11:35 Al	/I R11852
Ethylbenzene	ND	0.25		mg/Kg	5	7/11/2013 11:11:35 AM	/I R11852
Xylenes, Total	4.5	0.50		mg/Kg	5	7/11/2013 11:11:35 Al	/I R11852
Surr: 4-Bromofluorobenzene	128	80-120	S	%REC	5	7/11/2013 11:11:35 AM	/I R11852

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 4
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307553**

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-14 @ 6'-7'

 Project:
 GCU #215
 Collection Date: 7/9/2013 12:58:00 PM

 Lab ID:
 1307553-001
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Ç	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analysi	t: JME
Diesel Range Organics (DRO)	520	10	mg/Kg	1	7/16/2013 2:51:01 AM	8347
Surr: DNOP	92.0	63-147	%REC	1	7/16/2013 2:51:01 AM	8347
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	520	97	mg/Kg	20	7/15/2013 2:19:57 PM	8356
Surr: BFB	210	80-120	S %REC	20	7/15/2013 2:19:57 PM	8356
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.97	mg/Kg	20	7/15/2013 2:19:57 PM	8356
Toluene	ND	0.97	mg/Kg	20	7/15/2013 2:19:57 PM	8356
Ethylbenzene	1.9	0.97	mg/Kg	20	7/15/2013 2:19:57 PM	8356
Xylenes, Total	28	1.9	mg/Kg	20	7/15/2013 2:19:57 PM	8356
Surr: 4-Bromofluorobenzene	107	80-120	%REC	20	7/15/2013 2:19:57 PM	8356

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 6
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307553**

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-15 @ 6'-7'

 Project:
 GCU #215
 Collection Date: 7/9/2013 1:32:00 PM

 Lab ID:
 1307553-002
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/16/2013 3:12:54 AM	8347
Surr: DNOP	81.1	63-147	%REC	1	7/16/2013 3:12:54 AM	8347
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/15/2013 2:48:35 PM	8356
Surr: BFB	111	80-120	%REC	1	7/15/2013 2:48:35 PM	8356
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.047	mg/Kg	1	7/15/2013 2:48:35 PM	8356
Toluene	ND	0.047	mg/Kg	1	7/15/2013 2:48:35 PM	8356
Ethylbenzene	ND	0.047	mg/Kg	1	7/15/2013 2:48:35 PM	8356
Xylenes, Total	ND	0.095	mg/Kg	1	7/15/2013 2:48:35 PM	8356
Surr: 4-Bromofluorobenzene	98.8	80-120	%REC	1	7/15/2013 2:48:35 PM	8356

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2 of 6
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307553**

Date Reported: 7/17/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-17 @ 7'-8'

 Project:
 GCU #215
 Collection Date: 7/9/2013 3:05:00 PM

 Lab ID:
 1307553-003
 Matrix: SOIL
 Received Date: 7/11/2013 9:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	130	10	mg/Kg	1	7/16/2013 3:34:38 AM	8347
Surr: DNOP	89.1	63-147	%REC	1	7/16/2013 3:34:38 AM	8347
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	220	23	mg/Kg	5	7/15/2013 3:17:14 PM	8356
Surr: BFB	402	80-120	S %REC	5	7/15/2013 3:17:14 PM	8356
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.23	mg/Kg	5	7/15/2013 3:17:14 PM	8356
Toluene	ND	0.23	mg/Kg	5	7/15/2013 3:17:14 PM	8356
Ethylbenzene	0.45	0.23	mg/Kg	5	7/15/2013 3:17:14 PM	8356
Xylenes, Total	5.1	0.46	mg/Kg	5	7/15/2013 3:17:14 PM	8356
Surr: 4-Bromofluorobenzene	117	80-120	%REC	5	7/15/2013 3:17:14 PM	8356

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 3 of 6
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** GP-18 @ 7.5'-8'

Project: GCU #215 **Collection Date:** 7/10/2013 9:45:00 AM Matrix: SOIL Lab ID: 1307785-001 **Received Date:** 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Anal	yst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/22/2013 1:13:23 P	M 8425
Surr: DNOP	90.0	63-147	%REC	1	7/22/2013 1:13:23 P	M 8425
EPA METHOD 8015D: GASOLINE F	RANGE				Anal	yst: DAM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/19/2013 12:51:27 I	PM 8446
Surr: BFB	93.9	80-120	%REC	1	7/19/2013 12:51:27 I	PM 8446

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 1 of 15 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307785**

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-19 @ 7.5'-8.5'

 Project:
 GCU #215
 Collection Date: 7/10/2013 10:29:00 AM

 Lab ID:
 1307785-002
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	Ar	alyst: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 2:40:50	PM 8425
Surr: DNOP	88.5	63-147	%REC	1 7/22/2013 2:40:50	PM 8425
EPA METHOD 8015D: GASOLINE R	ANGE			Ar	alyst: DAM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 7/19/2013 1:20:01	PM 8446
Surr: BFB	94.2	80-120	%REC	1 7/19/2013 1:20:01	PM 8446

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2 of 15
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307785**

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-20 @ 9'-10'

 Project:
 GCU #215
 Collection Date: 7/10/2013 11:06:00 AM

 Lab ID:
 1307785-003
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	Analy	st: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 3:02:46 PM	A 8425
Surr: DNOP	89.5	63-147	%REC	1 7/22/2013 3:02:46 PM	A 8425
EPA METHOD 8015D: GASOLINE RANGE				Analy	st: DAM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1 7/19/2013 1:48:42 PM	A 8446
Surr: BFB	94.4	80-120	%REC	1 7/19/2013 1:48:42 PN	<i>l</i> 8446

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2.4
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-21 @ 6.5'-7.5'

 Project:
 GCU #215
 Collection Date: 7/10/2013 12:07:00 PM

 Lab ID:
 1307785-004
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	Analy	st: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 3:24:38 PM	A 8425
Surr: DNOP	93.1	63-147	%REC	1 7/22/2013 3:24:38 PM	A 8425
EPA METHOD 8015D: GASOLINE RA	NGE			Analy	st: DAM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 7/19/2013 2:45:58 PM	Л 8446
Surr: BFB	94.6	80-120	%REC	1 7/19/2013 2:45:58 PM	<i>l</i> 8446

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 4 of 15
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307785**

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-26 @ 5.5'-6.5'

 Project:
 GCU #215
 Collection Date: 7/12/2013 9:00:00 AM

 Lab ID:
 1307785-005
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	480	9.9		mg/Kg	1	7/22/2013 3:46:39 PM	8425
Surr: DNOP	90.4	63-147		%REC	1	7/22/2013 3:46:39 PM	8425
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	: DAM
Gasoline Range Organics (GRO)	880	47		mg/Kg	10	7/19/2013 3:14:35 PM	8446
Surr: BFB	342	80-120	S	%REC	10	7/19/2013 3:14:35 PM	8446
EPA METHOD 8021B: VOLATILES						Analyst	: DAM
Benzene	0.90	0.47		mg/Kg	10	7/19/2013 3:14:35 PM	8446
Toluene	ND	0.47		mg/Kg	10	7/19/2013 3:14:35 PM	8446
Ethylbenzene	4.6	0.47		mg/Kg	10	7/19/2013 3:14:35 PM	8446
Xylenes, Total	58	0.94		mg/Kg	10	7/19/2013 3:14:35 PM	8446
Surr: 4-Bromofluorobenzene	121	80-120	S	%REC	10	7/19/2013 3:14:35 PM	8446

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

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

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

Lab Order **1307785**

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-26 @ 9'-10'

 Project:
 GCU #215
 Collection Date: 7/12/2013 9:08:00 AM

 Lab ID:
 1307785-006
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	Analy	/st: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 4:30:25 PI	M 8425
Surr: DNOP	92.8	63-147	%REC	1 7/22/2013 4:30:25 PI	M 8425
EPA METHOD 8015D: GASOLINE RANGE				Analy	yst: DAM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 7/22/2013 1:01:05 PI	M 8446
Surr: BFB	96.8	80-120	%REC	1 7/22/2013 1:01:05 PI	M 8446

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 6 of 15
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-27 @ 8'-9'

Project: GCU #215 **Collection Date:** 7/12/2013 9:43:00 AM Matrix: SOIL Lab ID: 1307785-007 **Received Date:** 7/17/2013 9:51:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	E ORGANICS				Analysi	: JME
Diesel Range Organics (DRO)	76	10	mg/Kg	1	7/22/2013 4:52:14 PM	8425
Surr: DNOP	93.5	63-147	%REC	1	7/22/2013 4:52:14 PM	8425
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	:: DAM
Gasoline Range Organics (GRO)	300	48	mg/Kg	10	7/19/2013 4:11:44 PM	8446
Surr: BFB	168	80-120	S %REC	10	7/19/2013 4:11:44 PM	8446
EPA METHOD 8021B: VOLATILES					Analyst	:: DAM
Benzene	ND	0.48	mg/Kg	10	7/19/2013 4:11:44 PM	8446
Toluene	ND	0.48	mg/Kg	10	7/19/2013 4:11:44 PM	8446
Ethylbenzene	2.0	0.48	mg/Kg	10	7/19/2013 4:11:44 PM	8446
Xylenes, Total	21	0.96	mg/Kg	10	7/19/2013 4:11:44 PM	8446
Surr: 4-Bromofluorobenzene	107	80-120	%REC	10	7/19/2013 4:11:44 PM	8446

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 7 of 15 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order **1307785**

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-27 @ 10'-11'

 Project:
 GCU #215
 Collection Date: 7/12/2013 9:45:00 AM

 Lab ID:
 1307785-008
 Matrix: SOIL
 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	Anal	yst: JME			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 7/22/2013 5:14:12 P	PM 8425
Surr: DNOP	89.1	63-147	%REC	1 7/22/2013 5:14:12 F	PM 8425
EPA METHOD 8015D: GASOLINE R	ANGE			Anal	yst: DAM
Gasoline Range Organics (GRO)	5.8	4.9	mg/Kg	1 7/19/2013 4:40:16 P	PM 8446
Surr: BFB	111	80-120	%REC	1 7/19/2013 4:40:16 F	PM 8446

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

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 8 of 15
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-29 @ 7'-8'

Project: GCU #215 **Collection Date:** 7/12/2013 12:43:00 PM Matrix: SOIL Lab ID: 1307785-009 **Received Date:** 7/17/2013 9:51:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	370	10	mg/Kg	j 1	7/22/2013 5:36:03 PM	8425
Surr: DNOP	95.5	63-147	%RE0	1	7/22/2013 5:36:03 PM	8425
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: DAM
Gasoline Range Organics (GRO)	170	94	mg/Kg	20	7/19/2013 5:08:48 PM	8446
Surr: BFB	151	80-120	S %REG	20	7/19/2013 5:08:48 PM	8446
EPA METHOD 8021B: VOLATILES					Analys	t: DAM
Benzene	ND	0.94	mg/Kg	20	7/19/2013 5:08:48 PM	8446
Toluene	ND	0.94	mg/Kg	20	7/19/2013 5:08:48 PM	8446
Ethylbenzene	ND	0.94	mg/Ko	20	7/19/2013 5:08:48 PM	8446
Xylenes, Total	2.3	1.9	mg/Ko	20	7/19/2013 5:08:48 PM	8446
Surr: 4-Bromofluorobenzene	101	80-120	%RE0	20	7/19/2013 5:08:48 PM	8446

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 9 of 15 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** GP-29 @ 9'-10'

Project: GCU #215 **Collection Date:** 7/12/2013 12:45:00 PM Matrix: SOIL Lab ID: 1307785-010 **Received Date:** 7/17/2013 9:51:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS			Analy	st: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 7/22/2013 5:57:58 PN	A 8425
Surr: DNOP	86.7	63-147	%REC	1 7/22/2013 5:57:58 PN	A 8425
EPA METHOD 8015D: GASOLINE R	ANGE			Analy	st: DAM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 7/19/2013 5:37:31 PN	Л 8446
Surr: BFB	104	80-120	%REC	1 7/19/2013 5:37:31 PN	<i>l</i> l 8446

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

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 10 of 15 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Lab Order 1307785

Date Reported: 7/24/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: GP-31 @ 8'-9'

Project: GCU #215 **Collection Date:** 7/12/2013 1:38:00 PM Matrix: SOIL Lab ID: 1307785-011 Received Date: 7/17/2013 9:51:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analysi	: JME
Diesel Range Organics (DRO)	69	9.9	mg/Kg	1	7/22/2013 6:19:48 PM	8425
Surr: DNOP	88.0	63-147	%REC	1	7/22/2013 6:19:48 PM	8425
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	:: DAM
Gasoline Range Organics (GRO)	210	48	mg/Kg	10	7/22/2013 1:29:42 PM	8446
Surr: BFB	138	80-120	S %REC	10	7/22/2013 1:29:42 PM	8446
EPA METHOD 8021B: VOLATILES					Analyst	:: DAM
Benzene	0.50	0.48	mg/Kg	10	7/22/2013 1:29:42 PM	8446
Toluene	4.6	0.48	mg/Kg	10	7/22/2013 1:29:42 PM	8446
Ethylbenzene	1.4	0.48	mg/Kg	10	7/22/2013 1:29:42 PM	8446
Xylenes, Total	15	0.95	mg/Kg	10	7/22/2013 1:29:42 PM	8446
Surr: 4-Bromofluorobenzene	105	80-120	%REC	10	7/22/2013 1:29:42 PM	8446

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 11 of 15
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

GEOPROBE

LABORATORY

CHAIN-OF-CUSTODY

RECORDS

Client: Mailing	Address:	P.O. BO	P. / BP AMERICA DX 87 MFIELD, NM 87413 32-1199	Standard Project Name Project #:		15				Haw 05-3	AN wv kins	VW.h NE 3975	LY alle - Al	SI nvir	S onm uerq 505	LA enta jue, i-34!	B(al.com NM 5-41	DR m 871	EN' AT	T.A O!	\L RY
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7/8/13	0912	SOIL	GP-01 @-3.5'-7'	4 oz 1	Cool	1307652 -001	A BTEX	ВТЕХ	<u>₽</u>	且	ED	PA	RCRA	Ani	8081	826	827	Cho		\neg	5 pt.
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7/8/13	10315	SOIL	GP-04 @ 7:5 '-8'-9 [†]	4 oz 1	Cool	-004	V		V	\dashv	\dashv	-	-	-+	_				-	4	
7/8/13	1110	SOIL	GP-05 @ 8'-9'	4 oz 1	Cool	,	V	-	-+	\dashv			-	\dashv		_				4	
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +***	BTEX + MTBE	TPH 8015B	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	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0			5 pt. composite	A t hl.1.1
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MITE	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	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample 5 pt. composite sample
7/9/13	1258	SOIL	GP-14 @ 6'-7'	4 oz 1	Cool	-001	V		V	·					37					1
7/9/13	1332	SOIL	GP-15 @ 6'-7'	4 oz 1	Cool	-002	V		٧									1	1	+-
7/9/13	1505	SOIL	GP-17 @ 7'-8'	4 oz 1	Cool	-003	V		V									+	1	+
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Client:	BLAC	G ENGR	. / BP AMERICA	Standard Standard	Rush _														::IV At		
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1307785	BTEX +-NATE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	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	5 pt. composite
7/10/13	0945	SOIL	GP-18 @ 7.5'-8'	4 oz 1	Cool	-001			٧.					_	-	~	~		\dashv	V	
7/10/13	1029	SOIL	GP-19 @ 7.5'-8.5'	4 oz 1	Cool	-002			٧.										\neg	V	\exists
7/10/13	1106	SOIL	GP-20 @ 9'-10'	4 oz 1	Cool	-003			٧										7	V	7
7/10/13	1207	SOIL	GP-21 @ 6.5'-7.5'	4 oz 1	Cool	-004			V										十	V	\dashv
7/12/13	0900	SOIL	GP-26 @ 5.5'-6.5'	4 oz 1	Cool	-005	٧		٧											V	
7/12/13	0908	SOIL	GP-26 @ 9'-10'	4 oz 1	Cool	-006			V			•								V	
7/12/13	0943	SOIL	GP-27 @ 8'-9'	4 oz 1	Cool	-007	٧		٧									1		√	
7/12/13	0945	SOIL	GP-27 @ 10'-11'	4 oz 1	Cool	7008			٧							-			寸	v	1
7/12/13	1243	SOIL	GP-29 @ 7'-8'	4 oz 1	Cool	-009	٧		٧											V	
7/12/13	1245	SOIL	GP-29 @ 9'-10'	4 oz 1	Cool	-010			4								İ	\dashv		٧	\dashv
7/12/13	1338	SOIL	GP-31 @ 8'-9'	4 oz 1	Cool	-011	٧		٧.											V	寸
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1/4/13	1740 If necessa	nt samples su	ubmitted to Hall Environmental may be	ubcentracted to other	accredited laboratories	This serves as notice of									•	•	•				

GEOPROBE LABORATORY QUALITY ASSURANCE / QUALITY CONTROL

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307552

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

 Sample ID
 MB-8347
 SampType:
 MBLK
 TestCode:
 EPA Method 8015D:
 Diesel Range Organics

 Client ID:
 PBS
 Batch ID:
 8347
 RunNo:
 11922

 Prep Date:
 7/12/2013
 Analysis Date:
 7/15/2013
 SeqNo:
 339456
 Units:
 mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 8.6 10.00 85.7 63 147

Sample ID LCS-8347 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 8347 RunNo: 11922

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339457 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 42 10 50.00 83.6 77.1 128

Surr: DNOP 4.1 5.000 81.9 63 147

Sample ID MB-8407 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS Batch ID: 8407 RunNo: 11995

Prep Date: 7/16/2013 Analysis Date: 7/17/2013 SeqNo: 341200 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 114 63 147

Sample ID LCS-8407 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 8407 RunNo: 11995

Prep Date: 7/16/2013 Analysis Date: 7/17/2013 SeqNo: 341201 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.8 5.000 116 63 147

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307552**

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8356 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 8356 RunNo: 11954

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339700 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 950 1000 95.1 80 120

Sample ID LCS-8356 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 8356 RunNo: 11954

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339701 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 101
 62.6
 136

 Surr: BFB
 1000
 1000
 102
 80
 120

Sample ID MB-8345 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 8345 RunNo: 11935

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339766 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 950 1000 95.3 80 120

Sample ID LCS-8345 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 8345 RunNo: 11935

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339767 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 90.6
 62.6
 136

 Surr: BFB
 1000
 1000
 104
 80
 120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307552

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8356	Samp	Гуре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	iles		
Client ID: PBS	Batc	h ID: 83	56	F	RunNo: 1	1954				
Prep Date: 7/12/2013	Analysis D	Date: 7 /	15/2013	S	SeqNo: 3	39736	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	80	120			
Comple ID 1 CC 9250	Camp	Turnou I C	١٥	Too	40 a day E	DA Mada ad	0004D- Vale		-	_

Sample ID LCS-8356	Sampi	ype: LC	S	I es	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 83	56	R	RunNo: 1	1954				
Prep Date: 7/12/2013	Analysis D	oate: 7/	15/2013	S	SeqNo: 3	39737	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.9	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID MB-8345	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 83	45	R	RunNo: 1	1935				
Prep Date: 7/12/2013	Analysis D	ate: 7/	15/2013	S	SeqNo: 3	39795	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID LCS-8345	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 834	45	R	RunNo: 1	1935				
Prep Date: 7/12/2013	Analysis D	ate: 7/	15/2013	S	SeqNo: 3	39796	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.8	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 10 of 10



нии вичи опшении лишува виоогиоту 4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: BLAGG		Work Order Number:	1307552		ReptNo:	1
Received by/date:	R	07/11/17				
Logged By: Lindsay	Mangin	7/11/2013 9:45:00 AM		Jamely Hongs		
Completed By: Lindsay	Mangin	7/12/2013 10:57:27 AM		Juney House		
Reviewed By:	AT	Musia				
Chain of Custody		Just	-			
1 Custody seals intact on	sample bottles?		Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody con	nplete?		Yes 🗹	No \square	Not Present	
3. How was the sample de	livered?		Courier			
<u>Log In</u>						
4. Was an attempt made t	to cool the samples?		Yes 🗸	No 🗆	na 🗆	
5. Were all samples receive	/ed at a temperature	of >0° C to 6.0°C	Yes 🗸	No 🗆	na 🗆	
6. Sample(s) in proper co	ntainer(s)?		Yes 🗹	No 🗆		•
7. Sufficient sample volum	e for indicated test(s	s)?	Yes 🗸	No 🗆		
8. Are samples (except VC	OA and ONG) proper	ly preserved?	Yes 🗹	No 🗌		
9. Was preservative added	d to bottles?		Yes 🗌	No 🗸	NA 🗆	
10.VOA vials have zero he	adspace?		Yes 🗌	No 🗔	No VOA Vials	
11. Were any sample conta	ainers received broke	en?	Yes	No 🗹	# of preserved	
40.5			v. 🔎	A1- 🗆	bottles checked	
12.Does paperwork match (Note discrepancies on			Yes 🗹	No ∐	for pH: (<2 or	>12 unless noted)
13 Are matrices correctly in	-	Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses			Yes 🗹	No 🗌		
15. Were all holding times a (If no, notify customer for			Yes 🗹	No ∐	Checked by:	
, , ,	•					
Special Handling (if a	pplicable)					
16. Was client notified of al	l discrepancies with	this order?	Yes 🗌	No 🗆	NA 🗹	-
Person Notified:		Date:				
By Whom:		Via:	eMail _	Phone Fax	In Person	
Regarding:						
Client Instructions	5: 1					
17. Additional remarks:					·	
18. Cooler Information Cooler No Temp		· · · · · · · · · · · · · · · · · · ·	Seal Date	Signed By		
1.6	Good Ye	5	and Managarine to the restrict of the transfer of the restrict			

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307465**

12-Jul-13

Client: Blagg Engineering

Project: GCU # 215

Sample ID 1307372-005AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 8268 RunNo: 11842

Prep Date: 7/8/2013 Analysis Date: 7/11/2013 SeqNo: 337064 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.8 5.005 76.7 63 147

Sample ID 1307372-005AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 8268 RunNo: 11842

Prep Date: 7/8/2013 Analysis Date: 7/11/2013 SeqNo: 337065 Units: %REC

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit
 Qual

 Surr: DNOP
 3.8
 5.005
 75.4
 63
 147
 0
 0

Sample ID MB-8310 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **PBS** Batch ID: 8310 RunNo: 11842 Prep Date: 7/10/2013 Analysis Date: 7/11/2013 SeqNo: 337066 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual Diesel Range Organics (DRO) ND 10

Surr: DNOP 8.0 10.00 80.2 63 147

Sample ID LCS-8310 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 8310 RunNo: 11842

Prep Date: 7/10/2013 Analysis Date: 7/11/2013 SeqNo: 337069 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 43
 10
 50.00
 0
 86.9
 77.1
 128

 Surr: DNOP
 3.9
 5.000
 77.4
 63
 147

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307465**

12-Jul-13

Client:	Blagg Engineering
Drainate	CCII # 215

Project:	GCU # 2	15								
Sample ID	MB-8305	SampType: I	IBLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch ID: I	R11852	F	RunNo: 1	1852				
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	9	SeqNo: 3	37676	Units: mg/k	(g		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 5. 920	0 1000		92.3	80	120			
Sample ID	LCS-8305	SampType: I	_CS	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch ID: I	R11852	F	RunNo: 1	1852				
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	S	SeqNo: 3	37677	Units: mg/k	(g		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Ranç Surr: BFB	ge Organics (GRO)	24 5. 1200	0 25.00 1000	0	94.2 115	62.6 80	136 120			
Sample ID	MB-8305	SampType: I	MBLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch ID: 4	3305	F	RunNo: 1	1852		_		
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	5	SeqNo: 3	37682	Units: %RE	С		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		920	1000		92.3	80	120			
Sample ID	LCS-8305	SampType: I	_cs	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch ID: 8	3305	F	RunNo: 1	1852				
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	5	SeqNo: 3	37683	Units: %RE	С		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1200	1000		115	80	120			
Sample ID	1307372-005AMS	SampType: I	ИS	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	BatchQC	Batch ID: 8	3305	F	RunNo: 1	1852				
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	9	SeqNo: 3	37685	Units: %RE	C		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000	961.5		105	80	120			
Sample ID	1307372-005AMSI	SampType: I	MSD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	BatchQC	Batch ID: 4	3305	F	RunNo: 1	1852				
Prep Date:	7/10/2013	Analysis Date:	7/11/2013	S	SeqNo: 3	37686	Units: %RE	С		
Analyte		Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level.

990

960.6

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

80

120

ND Not Detected at the Reporting Limit

103

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307465**

12-Jul-13

Client: Blagg Engineering
Project: GCU # 215

Sample ID MB-8305 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: R11852 RunNo: 11852

Prep Date: 7/10/2013 Analysis Date: 7/11/2013 SeqNo: 337689 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.96 1.000 95.5 80 120

Sample ID LCS-8305 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: R11852 RunNo: 11852 SeqNo: 337690 Prep Date: 7/10/2013 Analysis Date: 7/11/2013 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.0 1.000 0 99.9 80 120 Benzene 0.050 Toluene 1.0 0.050 1.000 0 100 80 120 Ethylbenzene 0.99 0.050 1.000 0 99.1 80 120 99.8 Xylenes, Total 3.0 0.10 3.000 0 80 120 103 Surr: 4-Bromofluorobenzene 1.0 1.000 80 120

Sample ID 1307467-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: R11852 RunNo: 11852

Prep Date:	Analysis [Date: 7/	11/2013	S	SeqNo: 3	37694	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.60	0.050	0.6345	0	94.8	67.3	145			
Toluene	0.61	0.050	0.6345	0.005178	95.1	66.8	144			
Ethylbenzene	0.61	0.050	0.6345	0	96.4	61.9	153			
Xylenes, Total	1.8	0.10	1.904	0.02470	95.2	65.8	149			
Surr: 4-Bromofluorobenzene	0.66		0.6345		103	80	120			

Sample ID 1307467-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: R11852 RunNo: 11852

Onom is: Butonido			.002	•		.00_				
Prep Date: Analysis Date: 7/11/2		11/2013	S	SeqNo: 3	37695	Units: mg/k	ίg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.58	0.050	0.6345	0	92.0	67.3	145	2.98	20	
Toluene	0.59	0.050	0.6345	0.005178	91.7	66.8	144	3.62	20	
Ethylbenzene	0.59	0.050	0.6345	0	92.3	61.9	153	4.36	20	
Xylenes, Total	1.8	0.10	1.904	0.02470	91.3	65.8	149	4.20	20	
Surr: 4-Bromofluorobenzene	0.67		0.6345		106	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

BLAGG Client Name: Work Opder Number: 1307465 RcptNo: 1 Received by/date: Lindsay Mangin Logged By: 7/11/2013 9:45:00 AM Completed By: **Lindsay Mangin** 7/11/2013 10:00:19 AM 07/11/3 Reviewed By: Chain of Custody Not Present 🗹 Yes 🗌 No \square 1. Custody seals intact on sample bottles? Yes 🗹 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA 🗔 Yes 🗸 4. Was an attempt made to cool the samples? NA 🗌 No 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 Yes 🗸 No 🗌 Sample(s) in proper container(s)? No \square Yes 🗹 7. Sufficient sample volume for indicated test(s)? Yes 🗸 Nο 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA \square 9. Was preservative added to bottles? Yes 🗌 No 🗌 No VOA Vials 🗹 10. VOA vials have zero headspace? Yes 🗌 Yes ∐ No 🗹 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 No 🗆 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? Yes 🗹 **✓** Nο 14. Is it clear what analyses were requested? Yes No 🗌 Checked by: Yes 🗹 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? No 🗆 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307553**

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8347 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS Batch ID: 8347 RunNo: 11922

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339456 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 8.6 10.00 85.7 63 147

Sample ID LCS-8347 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 8347 RunNo: 11922

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339457 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 42 10 50.00 83.6 77.1 128

Surr: DNOP 4.1 5.000 81.9 63 147

Sample ID MB-8407 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS Batch ID: 8407 RunNo: 11995

Prep Date: 7/16/2013 Analysis Date: 7/17/2013 SeqNo: 341200 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 114 63 147

Sample ID LCS-8407 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 8407 RunNo: 11995

Prep Date: 7/16/2013 Analysis Date: 7/17/2013 SeqNo: 341201 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.8 5.000 116 63 147

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307553

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8356 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 8356 RunNo: 11954

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339700 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 950 1000 95.1 80 120

Sample ID LCS-8356 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 8356 RunNo: 11954

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339701 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 101
 62.6
 136

 Surr: BFB
 1000
 1000
 102
 80
 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: 1307553

17-Jul-13

Client: Blagg Engineering

Project: GCU #215

Surr: 4-Bromofluorobenzene

Sample ID MB-8356 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 8356 RunNo: 11954

Prep Date: 7/12/2013 Analysis Date: 7/15/2013 SeqNo: 339736 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.99 1.000 99.4 80 120

1.000

Sample ID LCS-8356	Samp	Гуре: LC	s	Tes	tCode: E					
Client ID: LCSS	Batc	h ID: 83	56	F	RunNo: 1	1954				
Prep Date: 7/12/2013	Analysis Date: 7/15/2013			SeqNo: 339737			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.9	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.2	80	120			
Yylones Total	3.0	0.10	3 000	0	99.5	80	120			

104

80

120

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 6 of 6



4901 Hawkins NE Albuquerque, NM 87109 L: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	BLAGG	Work Order Numb	er: 1307553		RcptNo:	1 .
Received by/date	e: Ae	07/11/12				
Logged By:	Lindsay Mangin	7/11/2013 9:45:00 A	ιM	Simby Hlefter		
Completed By:	Lindsay Mangin	7/12/2013 11:02:32	АМ	Amely Hales		
Reviewed By:	MQ	07/12/18		000		
Chain of Cus	tody	· Chorps				
	als intact on sample bottle	s?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered?		Courier			
<u>Log In</u>						
4. Was an atte	empt made to cool the sar	nples?	Yes 🗹	No 🗌	na 🗆	
5. Were all san	nples received at a tempe	erature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗌	
6. Sample(s) ir	n proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sa	mple volume for indicated	test(s)?	Yes 🗹	No 🗌		
8. Are samples	(except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was preserv	ative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sa	ample containers received	l broken?	Yes	No 🗹 🛚	# of was a world	
40 -					# of preserved bottles checked	
	work match bottle labels? pancies on chain of custo	dy)	Yes 🗹	No 🗔	for pH: (<2 or	>12 unless noted)
•	s correctly identified on Cl	•-	Yes 🗹	No 🗆	Adjusted?	<u>.</u>
14. Is it clear wha	at analyses were request	ed?	Yes 🗹	No 🗆		
	ding times able to be met customer for authorization		Yes 🗹	No 🗆	Checked by:	
Special Hand	lling (if applicable)					
	otified of all discrepancies	with this order?	Yes 🗌	No 🗌	na 🗹	
		1910s —	_	INU L.	NA 🖭	
	1 Notified:	Date:	,			
By Wh		Via:	eMail f	Phone Fax	In Person	
	Instructions:					
17. Additional re	<u> </u>				-	
18. <u>Cooler Info</u> Cooler No	rmation	Seal Intact Seal No Yes	Seal Date	Signed By		

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307785**

24-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID	MB-8425	SampTy	/pe: M	BLK	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 8 4	25	RunNo: 12041						
Prep Date:	7/17/2013	Analysis Da	ate: 7	/18/2013	S	SeqNo: 3	42321	Units: mg/k	〈 g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	ND	10			00.0	00	4.47			
Surr: DNOP		9.6		10.00		96.2	63	147			
Sample ID	LCS-8425	SampTy	/pe: L(cs	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 8 4	25	R	tunNo: 1	2041				
Prep Date:	7/17/2013	Analysis Da	ate: 7	/18/2013	S	SeqNo: 3	42322	Units: mg/h	K g		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	45	10		0	90.9	77.1	128			
Surr: DNOP		5.5		5.000		110	63	147			
Sample ID	LCS-8486	SampTy	/pe: L (cs	Test	Code: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 8 4	186	R	tunNo: 1	2083				
Prep Date:	7/22/2013	Analysis Da	ate: 7	/22/2013	S	SeqNo: 3	43712	Units: %RE	:C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.2		5.000		84.9	63	147			
Sample ID	MR-9496					TestCode: EPA Method 8015D: Diesel Range Organics					
	WID-0400	SampTy	/pe: M	BLK	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:			/pe: M ID: 8 4			tCode: El tunNo: 1		8015D: Dies	el Range (Organics	
			ID: 8 4	186	R		2083	8015D: Dies Units: %RE	J	Organics	
	PBS	Batch	ID: 8 4	l86 /22/2013	R	tunNo: 1	2083		J	Organics RPDLimit	Qual
Prep Date:	PBS 7/22/2013	Batch Analysis Da	ID: 8 4	l86 /22/2013	R	tunNo: 12 SeqNo: 3	2083 43713	Units: %RE	iC		Qual
Prep Date: Analyte Surr: DNOP	PBS 7/22/2013	Batch Analysis Da Result 9.0	ID: 8 4 ate: 7	SPK value 10.00	SPK Ref Val	8unNo: 13 6eqNo: 3 6eqNo: 3 7 89.5	2083 43713 LowLimit 63	Units: %RE HighLimit 147	C %RPD	RPDLimit	Qual
Prep Date: Analyte Surr: DNOP Sample ID	PBS 7/22/2013	Batch Analysis Da Result 9.0 SampTy	ID: 8 4 ate: 7	886 /22/2013 SPK value 10.00	SPK Ref Val	8unNo: 13 6eqNo: 3 6eqNo: 3 7 89.5	2083 43713 LowLimit 63 PA Method	Units: %RE HighLimit	C %RPD	RPDLimit	Qual
Prep Date: Analyte Surr: DNOP Sample ID Client ID:	PBS 7/22/2013 1307785-001AMS	Batch Analysis Da Result 9.0 SampTy	ID: 84 Ate: 7 PQL /pe: M ID: 84	SPK value 10.00	SPK Ref Val Test	eunNo: 1: seqNo: 3: %REC 89.5	2083 43713 LowLimit 63 PA Method 2083	Units: %RE HighLimit 147	RPD	RPDLimit	Qual
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date:	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8'	Batch Analysis Da Result 9.0 SampTy Batch	PQL /pe: M ID: 84	SPK value 10.00 S 125 122/2013	SPK Ref Val Test	eunNo: 1: seqNo: 3: %REC 89.5 cCode: EI cunNo: 1: seqNo: 3:	2083 43713 LowLimit 63 PA Method 2083 43907	Units: %RE HighLimit 147 8015D: Dies Units: mg/h	RPD el Range (RPDLimit Organics	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8'	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da	ID: 84 Ate: 7 PQL /pe: M ID: 84	SPK value 10.00 S 125 /22/2013 SPK value	SPK Ref Val Test	eunNo: 1: seqNo: 3 %REC 89.5 cCode: El	2083 43713 LowLimit 63 PA Method 2083	Units: %RE HighLimit 147 8015D: Dies	RPD	RPDLimit	Qual
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO)	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result	PQL /pe: M ID: 84	SPK value 10.00 S 125 /22/2013 SPK value	SPK Ref Val Tesi R S SPK Ref Val	8unNo: 1: 8eqNo: 36 89.5 8Code: El 8unNo: 1: 8eqNo: 36 %REC	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit	Units: %RE HighLimit 147 8015D: Dies Units: mg/F	RPD el Range (RPDLimit Organics	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range G Surr: DNOP	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO)	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result 43 4.3	PQL 10: 844 10: 844 10: 844 10: 84	SPK value 10.00 8 125 /22/2013 SPK value 49.75 4.975	SPK Ref Val Test R S SPK Ref Val 0	8unNo: 1: 8eqNo: 3: 89.5 8Code: El 8unNo: 1: 8eqNo: 3: 8FEC 85.9 87.4	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit 61.3 63	Units: %RE HighLimit 147 8015D: Dies Units: mg/F HighLimit 138	el Range (%RPD	RPDLimit Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range G Surr: DNOP	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO)	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result 43 4.3 SampTy	PQL 10: 844 10: 844 10: 844 10: 84	SPK value 10.00 S 425 /22/2013 SPK value 49.75 4.975	SPK Ref Val Test SPK Ref Val 0	8unNo: 1: 8eqNo: 3: 89.5 8Code: El 8unNo: 1: 8eqNo: 3: 8FEC 85.9 87.4	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit 61.3 63	Units: %RE HighLimit 147 8015D: Dies Units: mg/k HighLimit 138 147	el Range (%RPD	RPDLimit Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID:	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO)	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result 43 4.3 SampTy	PQL //Pe: M ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84	SPK value 10.00 10.00 S 125 /22/2013 SPK value 49.75 4.975 SD	SPK Ref Val Test R S SPK Ref Val 0	eunNo: 1: deqNo: 3: %REC 89.5 Code: EI cunNo: 1: deqNo: 3: %REC 85.9 87.4 Code: EI	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit 61.3 63 PA Method 2083	Units: %RE HighLimit 147 8015D: Dies Units: mg/k HighLimit 138 147	el Range (%RPD el Range (kg %RPD	RPDLimit Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID:	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO) 1307785-001AMSI GP-18 @ 7.5'-8'	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result 43 4.3 D SampTy Batch	PQL //Pe: M ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84	SPK value 10.00 10.00 S 425 /22/2013 SPK value 49.75 4.975 SD 425	SPK Ref Val Test R S SPK Ref Val 0	8unNo: 1: 8eqNo: 3: 8REC 89.5 8Code: El 8unNo: 1: 8eqNo: 3: 8FEC 85.9 87.4 8Code: El 8unNo: 1:	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit 61.3 63 PA Method 2083	Units: %RE HighLimit 147 8015D: Dies Units: mg/k HighLimit 138 147 8015D: Dies	el Range (%RPD el Range (kg %RPD	RPDLimit Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 7/22/2013 1307785-001AMS GP-18 @ 7.5'-8' 7/17/2013 Organics (DRO) 1307785-001AMSI GP-18 @ 7.5'-8'	Batch Analysis Da Result 9.0 SampTy Batch Analysis Da Result 43 4.3 D SampTy Batch Analysis Da	rpe: M ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84 ID: 84	SPK value 10.00 S 125 /22/2013 SPK value 49.75 4.975 SD 125 /22/2013 SPK value	SPK Ref Val Test SPK Ref Val 0 Test R SSPK Ref Val 0	8unNo: 1: 8eqNo: 3: 8REC 89.5 8Code: El 8unNo: 1: 8eqNo: 3: 8Code: El 8cunNo: 1: 8cqNo: 3: 8cqNo: 3:	2083 43713 LowLimit 63 PA Method 2083 43907 LowLimit 61.3 63 PA Method 2083 43911	Units: %RE HighLimit 147 8015D: Dies Units: mg/k HighLimit 138 147 8015D: Dies Units: mg/k	el Range (%RPD el Range (%RPD	RPDLimit Organics RPDLimit Organics	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Page 12 of 15

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307785

24-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8446 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 8446 RunNo: 12078

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343370 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 930 1000 93.4 80 120

Sample ID LCS-8446 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 8446 RunNo: 12078

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343371 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 27
 5.0
 25.00
 0
 108
 62.6
 136

 Surr: BFB
 1000
 1000
 100
 80
 120

Sample ID 1307785-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **GP-18** @ **7.5'-8'** Batch ID: **8446** RunNo: **12078**

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343372 Units: mg/Kg

RPDLimit %RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 35 23.54 148 76 156

 Gasoline Range Organics (GRO)
 35
 4.7
 23.54
 0
 148
 76
 156

 Surr: BFB
 1400
 941.6
 147
 80
 120
 S

Sample ID 1307785-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: GP-18 @ 7.5'-8' Batch ID: 8446 RunNo: 12078

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343373 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 29 4.7 125 76 156 16.9 17.7 23.54 Surr: BFB 1100 941.6 112 80 120 0 0

Sample ID MB-8464 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: R12092 RunNo: 12092

Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344474 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 930 1000 92.6 80 120

Sample ID LCS-8464 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: R12092 RunNo: 12092

Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344475 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: BFB
 1000
 1000
 101
 80
 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Page 13 of 15

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307785

24-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8446 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 8446 RunNo: 12078

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343544 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.98 1.000 97.7 80 120

Sample ID LCS-8446 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 8446 RunNo: 12078 Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343552 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit 1.0 0.050 1.000 O 101 80 120 Benzene Toluene 1.0 0.050 1.000 0 100 80 120

Ethylbenzene 0.050 0 101 80 120 1.0 1.000 Xylenes, Total 3.0 0.10 3.000 0 101 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID 1307801-003AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Batch ID: 8446 RunNo: 12078 Client ID: **BatchQC**

Prep Date: 7/18/2013 Analysis Date: 7/19/2013 SeqNo: 343556 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 3.4 0.48 9.699 3.466 -0.238 67.3 145 S Toluene 25 0.48 9.699 35.90 -108 66.8 144 S 7.0 s Ethylbenzene 0.48 9.699 8.386 -14.7 61.9 153 -70.9 S Xylenes, Total 70 0.97 29.10 90.26 65.8 149 Surr: 4-Bromofluorobenzene 9.699 S 12 121 80 120

Sample ID 1307801-003AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 8446 RunNo: 12078

Prep Date: 7/18/2013	Analysis D	ate: 7/	19/2013	SeqNo: 343557 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.4	0.48	9.690	3.466	-1.12	67.3	145	2.51	20	S
Toluene	26	0.48	9.690	35.90	-98.4	66.8	144	3.52	20	S
Ethylbenzene	7.5	0.48	9.690	8.386	-9.42	61.9	153	7.13	20	S
Xylenes, Total	74	0.97	29.07	90.26	-56.3	65.8	149	5.95	20	S
Surr: 4-Bromofluorobenzene	12		9.690		126	80	120	0	0	S

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

RPD outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 14 of 15

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1307785**

24-Jul-13

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-8464 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **R12092** RunNo: **12092**

Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344523 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.96 1.000 96.3 80 120

Sample ID LCS-8464 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: R12092 RunNo: 12092

Prep Date: 7/19/2013 Analysis Date: 7/22/2013 SeqNo: 344524 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2 for VOA and TOC only.

RL Reporting Detection Limit

Page 15 of 15



tiali Environmental Analysis Laboratory 4901 Hawkins NE

LABORATORY TEL: 505-345- Website: ww	3975 FAX: 505-345 w.hallenvironmenta	-410/	npie Log-in Ch	
Client Name: BLAGG Work Order Num	nber: 1307785		RcptNo: 1	
Received by/date				
Logged By: Ashley Gallegos 7/17/2013 9:51:00	ΔΜ	A		
Completed By: Ashley Gallegos 7/17/2013 4:37:11		A		
Reviewed By:	PIVI)	2		
Chain of Custody	9112	<u> </u>		
Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present ✓	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier	110	Not Flesent	
<u>Log In</u>	_			
4. Was an attempt made to cool the samples?	. .	\Box		
and the samples?	Yes 🗸	No 🗔	NA 🗌	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No 🗌		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Vials ⊻ i	
11. Were any sample containers received broken?	Yes	No 🗹		
			# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗆	for pH:	
Are matrices correctly identified on Chain of Custody?	Yes 🗸	N- 🗆	(<2 or >12 Adjusted?	unless note
4. Is it clear what analyses were requested?	Yes ✓	No 🗌 No 🗆	Adjusted?	-
5. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗆	Checked by:	
pecial Handling (if applicable)				
6. Was client notified of all discrepancies with this order?	Yes 🗌	No.	[d]	
December 1		No 🗀	NA 🗹	
By Whom: Via:	·		¬. -	
Regarding:	eMail Ph	one 🗌 Fax [In Person	
Client Instructions:			1	

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1		Good	Yes			Oigned by

SOIL

REMEDIATION

APRIL-AUGUST 2014



BP AMERICA PRODUCTION COMPANY

GCU # 215

Unit M, Sec. 16, T29N, R12W

Clean Up of Historical Release Discovered Beneath 95 bbl Below-grade Tank

]	BTEX - cumulative	Total Xylenes	Ethyl - benzene	Toluene	Benzene	TPH - cumulative		TPH - gasoline range	GRAB / COMPOSITE	SAMPLE TIME	SAMPLE DATE	SAMPLE ID
				, ,	, ,		range		COMPOSITE	IIIVIE	DATE	
┙	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)				
Excavate	120	110	10.0	ND	ND	1,930	630	1,300	Grab	1340	04/28/14	300' S2E @ 6'
7	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0855	05/05/14	129' S46E @ 8'
	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0859	05/05/14	159' S32E @ 8'
1	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0903	05/05/14	172' S24E @ 8'
	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0906	05/05/14	196' S18E @ 8'
	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0910	05/05/14	228' S11E @ 8'
	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0913	05/05/14	250' S7.5E @ 8'
]	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0919	05/05/14	109' S60E @ 8'
Excavate	337	300	26	6.6	4.1	5,600	2,000	3,600	Grab	0924	05/05/14	80' Due E @ 6'
]	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0900	05/16/14	210' S58W
٦	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0846	06/05/14	252' S17W @8'
7	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0853	06/05/14	253' S25W @ 8'
7	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0900	06/05/14	241' S37W @ 10'
1	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0906	06/05/14	210' S48W @ 11'
1	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0911	06/05/14	170' S63W @ 11'
1	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0916	06/05/14	141' S72W @ 11'
1	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0920	06/05/14	121' S88W @ 11'
]	ND	ND	ND	ND	ND	ND	ND	ND	Grab	0925	06/05/14	113' N73W @ 10'
]	NA	NA	NA	NA	NA	ND	ND	ND	Grab	1015	08/05/14	NSW-EAST END @ 6'
4											,,	(150' N14E) from W.H.
	NA	NA	NA	NA	NA	ND	ND	ND	Grab	1045	08/05/14	NSW-WEST END @ 6' (147' N4E) from W.H.
_ _	ND	l ND I	ND	ND	ND	ND	ND	ND	Crah	1105	09/06/14	,
4		ND ND		ND ND	ND ND	ND	ND ND	ND ND	Grab	1105	08/06/14	160' N34E @ 8'
	ND	ND	ND	ND	ND	ND	ND	ND	Grab	1121	08/06/14	141' N14W @ 10'
	50	-	-	-	10	100	-	-	STANDARDS -	E CLOSURE S	OCD RELEAS	NM

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

ppm - Parts per million or milligram per kilogram (mg/Kg).

NA - Not available or applicable.

NMOCD - New Mexico Oil Conservation Division.

BP AMERICA PRODUCTION COMPANY

GCU #215

Unit M, Sec. 16, T29N, R12W

Clean Up of Historical Release Discovered Beneath 95 bbl Below-grade Tank

SAMPLE	Map	SAMPLE	SAMPLE	SAMPLE	TPH	TPH	TPH Total	Benzene	Toluene	Ethyl -	Total	BTEX -
ID	ID	DATE	TIME	TYPE	(GRO)	(DRO)	(DRO+GR0)			benzene	Xylenes	Cumulative
					(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
300' S2E @ 6'	EX1	04/28/14	1340	Grab	1,300	630	1,930	ND	ND	10.0	110	120
129' S46E @ 8'	Α	05/05/14	0855	Grab	ND	ND	ND	ND	ND	ND	ND	ND
159' S32E @ 8'	В	05/05/14	0859	Grab	ND	ND	ND	ND	ND	ND	ND	ND
172' S24E @ 8'	С	05/05/14	0903	Grab	ND	ND	ND	ND	ND	ND	ND	ND
196' S18E @ 8'	D	05/05/14	0906	Grab	ND	ND	ND	ND	ND	ND	ND	ND
228' S11E @ 8'	E	05/05/14	0910	Grab	ND	ND	ND	ND	ND	ND	ND	ND
250' S7.5E @ 8'	F	05/05/14	0913	Grab	ND	ND	ND	ND	ND	ND	ND	ND
109' S60E @ 8'	G	05/05/14	0919	Grab	ND	ND	ND	ND	ND	ND	ND	ND
80' Due E @ 6'	EX2	05/05/14	0924	Grab	3,600	2,000	5,600	4.1	6.6	26	300	337
210' S58W	Н	05/16/14	0900	Grab	ND	ND	ND	ND	ND	ND	ND	ND
252' S17W @8'	1	06/05/14	0846	Grab	ND	ND	ND	ND	ND	ND	ND	ND
253' S25W @ 8'	J	06/05/14	0853	Grab	ND	ND	ND	ND	ND	ND	ND	ND
241' S37W @ 10'	K	06/05/14	0900	Grab	ND	ND	ND	ND	ND	ND	ND	ND
210' S48W @ 11'	L	06/05/14	0906	Grab	ND	ND	ND	ND	ND	ND	ND	ND
170' S63W @ 11'	M	06/05/14	0911	Grab	ND	ND	ND	ND	ND	ND	ND	ND
141' S72W @ 11'	N	06/05/14	0916	Grab	ND	ND	ND	ND	ND	ND	ND	ND
121' S88W @ 11'	0	06/05/14	0920	Grab	ND	ND	ND	ND	ND	ND	ND	ND
113' N73W @ 10'	Р	06/05/14	0925	Grab	ND	ND	ND	ND	ND	ND	ND	ND
NSW-EAST END @ 6'	0	08/05/14	1015	Cuah	ND	ND	ND	NIA	NIA	NIA	NIA	NIA
(150' N14E) from W.H.	Q	08/03/14	1015	Grab	ND	ND	ND	NA	NA	NA	NA	NA
NSW-WEST END @ 6'	R	08/05/14	1045	Grab	ND	ND	ND	NA	NA	NA	NA	NA
(147' N4E) from W.H.	IX	00/03/14	1043	Grab	ND	ND	ND	IVA	IVA	IVA	IVA	IVA
160' N34E @ 8'	S	08/06/14	1105	Grab	ND	ND	ND	ND	ND	ND	ND	ND
141' N14W @ 10'	Т	08/06/14	1121	Grab	ND	ND	ND	ND	ND	ND	ND	ND
96' N41W @ 10'	U	08/14/14	1503	Grab	ND	ND	ND	ND	ND	ND	ND	ND
South 1 @ 10'	V	08/14/14	1439	Grab	ND	ND	ND	ND	ND	ND	ND	ND
South 2 @ 10'	W	08/14/14	1443	Grab	ND	ND	ND	ND	ND	ND	ND	ND
93' Due East @ 8'	X	08/14/14	1450	Grab	ND	ND	ND	ND	ND	ND	ND	ND
105' N54E @ 8'	Υ	08/14/14	1452	Grab	ND	ND	ND	ND	ND	ND	ND	ND
114' N17W @ 10'	Z	08/14/14	1459	Grab	ND	ND	ND	ND	ND	ND	ND	ND
N	MOCE	RELEASE C	LOSURE STA	ANDARDS -	-	-	100	10	-	-		50

Notes:

TPH -Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX -Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

Parts per million or milligram per kilogram (mg/Kg). ppm -

NA -Not available or applicable.

NMOCD -New Mexico Oil Conservation Division.

REMEDIATION

LABORATORY

RESULTS

Lab Order **1405301**Date Reported: **5/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 129' S46E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 8:55:00 AM

 Lab ID:
 1405301-001
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/9/2014 5:35:13 PM	13058
Surr: DNOP	94.8	57.9-140	%REC	1	5/9/2014 5:35:13 PM	13058
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/9/2014 2:15:16 PM	13069
Surr: BFB	97.9	74.5-129	%REC	1	5/9/2014 2:15:16 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	5/9/2014 2:15:16 PM	13069
Toluene	ND	0.046	mg/Kg	1	5/9/2014 2:15:16 PM	13069
Ethylbenzene	ND	0.046	mg/Kg	1	5/9/2014 2:15:16 PM	13069
Xylenes, Total	ND	0.092	mg/Kg	1	5/9/2014 2:15:16 PM	13069
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	5/9/2014 2:15:16 PM	13069
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 1:19:10 PM	13092

Sample ID: A

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

Qualifiers:

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

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Lab Order **1405301**Date Reported: **5/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 159' S32E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 8:59:00 AM

 Lab ID:
 1405301-002
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/9/2014 7:08:24 PM	13058
Surr: DNOP	102	57.9-140	%REC	1	5/9/2014 7:08:24 PM	13058
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/9/2014 3:41:07 PM	13069
Surr: BFB	91.1	74.5-129	%REC	1	5/9/2014 3:41:07 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/9/2014 3:41:07 PM	13069
Toluene	ND	0.049	mg/Kg	1	5/9/2014 3:41:07 PM	13069
Ethylbenzene	ND	0.049	mg/Kg	1	5/9/2014 3:41:07 PM	13069
Xylenes, Total	ND	0.098	mg/Kg	1	5/9/2014 3:41:07 PM	13069
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	5/9/2014 3:41:07 PM	13069
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 1:31:35 PM	13092

Sample ID: B

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1405301**

Date Reported: 5/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 172' S24E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 9:03:00 AM

 Lab ID:
 1405301-003
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/9/2014 7:39:23 PM	13058
Surr: DNOP	97.6	57.9-140	%REC	1	5/9/2014 7:39:23 PM	13058
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/9/2014 9:52:38 PM	13069
Surr: BFB	89.4	74.5-129	%REC	1	5/9/2014 9:52:38 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/9/2014 9:52:38 PM	13069
Toluene	ND	0.047	mg/Kg	1	5/9/2014 9:52:38 PM	13069
Ethylbenzene	ND	0.047	mg/Kg	1	5/9/2014 9:52:38 PM	13069
Xylenes, Total	ND	0.094	mg/Kg	1	5/9/2014 9:52:38 PM	13069
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	5/9/2014 9:52:38 PM	13069
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 1:43:59 PM	13092

Sample ID: C

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 3 of 12
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1405301**Date Reported: **5/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 196' S18E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 9:06:00 AM

 Lab ID:
 1405301-004
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/9/2014 8:10:14 PM	13058
Surr: DNOP	98.4	57.9-140	%REC	1	5/9/2014 8:10:14 PM	13058
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/9/2014 10:21:17 PM	13069
Surr: BFB	86.9	74.5-129	%REC	1	5/9/2014 10:21:17 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	5/9/2014 10:21:17 PM	13069
Toluene	ND	0.046	mg/Kg	1	5/9/2014 10:21:17 PM	13069
Ethylbenzene	ND	0.046	mg/Kg	1	5/9/2014 10:21:17 PM	13069
Xylenes, Total	ND	0.092	mg/Kg	1	5/9/2014 10:21:17 PM	13069
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/9/2014 10:21:17 PM	13069
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 2:21:13 PM	13092

Sample ID: D

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

Qualifiers:

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

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Lab Order 1405301

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/14/2014

CLIENT: Blagg Engineering Client Sample ID: 228' S11E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 9:10:00 AM

 Lab ID:
 1405301-005
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/9/2014 9:12:22 PM	13058
Surr: DNOP	100	57.9-140	%REC	1	5/9/2014 9:12:22 PM	13058
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/9/2014 10:49:53 PM	13069
Surr: BFB	86.9	74.5-129	%REC	1	5/9/2014 10:49:53 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/9/2014 10:49:53 PM	13069
Toluene	ND	0.047	mg/Kg	1	5/9/2014 10:49:53 PM	13069
Ethylbenzene	ND	0.047	mg/Kg	1	5/9/2014 10:49:53 PM	13069
Xylenes, Total	ND	0.095	mg/Kg	1	5/9/2014 10:49:53 PM	13069
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/9/2014 10:49:53 PM	13069
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 2:33:38 PM	13092

Sample ID: E

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

Qualifiers:

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

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Lab Order **1405301**Date Reported: **5/14/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 250' S7 1/2 E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 9:13:00 AM

 Lab ID:
 1405301-006
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/9/2014 9:43:18 PM	13058
Surr: DNOP	101	57.9-140	%REC	1	5/9/2014 9:43:18 PM	13058
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/9/2014 11:18:30 PM	13069
Surr: BFB	87.8	74.5-129	%REC	1	5/9/2014 11:18:30 PM	13069
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/9/2014 11:18:30 PM	13069
Toluene	ND	0.047	mg/Kg	1	5/9/2014 11:18:30 PM	13069
Ethylbenzene	ND	0.047	mg/Kg	1	5/9/2014 11:18:30 PM	13069
Xylenes, Total	ND	0.094	mg/Kg	1	5/9/2014 11:18:30 PM	13069
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	5/9/2014 11:18:30 PM	13069
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 2:46:02 PM	13092

Sample ID: F

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 6 of 12
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1405301**

Date Reported: 5/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 109' S60E @ 8'

 Project:
 GCU 215
 Collection Date: 5/5/2014 9:19:00 AM

 Lab ID:
 1405301-007
 Matrix: SOIL
 Received Date: 5/7/2014 10:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/9/2014 10:14:04 PM	13058
Surr: DNOP	95.3	57.9-140	%REC	1	5/9/2014 10:14:04 PM	13058
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/9/2014 11:47:04 PM	13069
Surr: BFB	87.6	74.5-129	%REC	1	5/9/2014 11:47:04 PM	13069
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	5/9/2014 11:47:04 PM	13069
Toluene	ND	0.049	mg/Kg	1	5/9/2014 11:47:04 PM	13069
Ethylbenzene	ND	0.049	mg/Kg	1	5/9/2014 11:47:04 PM	13069
Xylenes, Total	ND	0.098	mg/Kg	1	5/9/2014 11:47:04 PM	13069
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/9/2014 11:47:04 PM	13069
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	5/9/2014 2:58:27 PM	13092

Sample ID: G

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1405976**Date Reported: **5/27/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 210' S58W

 Project:
 GCU 215
 Collection Date: 5/16/2014 9:00:00 AM

 Lab ID:
 1405976-001
 Matrix: SOIL
 Received Date: 5/22/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed B	atch
EPA METHOD 8015D: DIESEL RANGE	Analyst: B	BCN			
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1 5/23/2014 6:27:01 PM 1	3321
Surr: DNOP	92.6	57.9-140	%REC	1 5/23/2014 6:27:01 PM 1	3321
EPA METHOD 8015D: GASOLINE RANGE				Analyst: N	ISB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 5/23/2014 7:46:11 PM 1	3319
Surr: BFB	81.8	80-120	%REC	1 5/23/2014 7:46:11 PM 1	3319
EPA METHOD 8021B: VOLATILES				Analyst: N	ISB
Benzene	ND	0.048	mg/Kg	1 5/23/2014 7:46:11 PM 1	3319
Toluene	ND	0.048	mg/Kg	1 5/23/2014 7:46:11 PM 1	3319
Ethylbenzene	ND	0.048	mg/Kg	1 5/23/2014 7:46:11 PM 1	3319
Xylenes, Total	ND	0.095	mg/Kg	1 5/23/2014 7:46:11 PM 1	3319
Surr: 4-Bromofluorobenzene	93.7	80-120	%REC	1 5/23/2014 7:46:11 PM 1	3319
EPA METHOD 300.0: ANIONS				Analyst: J	RR
Chloride	ND	30	mg/Kg	20 5/23/2014 5:32:33 PM 1	3335

Sample ID: H

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

Qualifiers:

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

Page 1 of 5

RL Reporting Detection Limit

Lab Order **1406321**Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 252' S17W @ 8'

 Project:
 GCU 215
 Collection Date: 6/5/2014 8:46:00 AM

 Lab ID:
 1406321-001
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/9/2014 10:51:13 PM	13570
Surr: DNOP	126	57.9-140	%REC	1	6/9/2014 10:51:13 PM	13570
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/7/2014 7:23:36 PM	13564
Surr: BFB	88.4	80-120	%REC	1	6/7/2014 7:23:36 PM	13564
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2014 7:23:36 PM	13564
Toluene	ND	0.049	mg/Kg	1	6/7/2014 7:23:36 PM	13564
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2014 7:23:36 PM	13564
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2014 7:23:36 PM	13564
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/7/2014 7:23:36 PM	13564
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 3:54:57 PM	13585

Sample ID: I

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 13
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1406321**Date Reported: **6/11/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 253' S25W @ 8'

 Project:
 GCU 215
 Collection Date: 6/5/2014 8:53:00 AM

 Lab ID:
 1406321-002
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/9/2014 11:20:43 PM	13570
Surr: DNOP	138	57.9-140	%REC	1	6/9/2014 11:20:43 PM	13570
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/7/2014 9:46:26 PM	13564
Surr: BFB	89.1	80-120	%REC	1	6/7/2014 9:46:26 PM	13564
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.048	mg/Kg	1	6/7/2014 9:46:26 PM	13564
Toluene	ND	0.048	mg/Kg	1	6/7/2014 9:46:26 PM	13564
Ethylbenzene	ND	0.048	mg/Kg	1	6/7/2014 9:46:26 PM	13564
Xylenes, Total	ND	0.097	mg/Kg	1	6/7/2014 9:46:26 PM	13564
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/7/2014 9:46:26 PM	13564
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	54	30	mg/Kg	20	6/9/2014 4:07:21 PM	13585

Sample ID: J

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1406321

Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID: 241' S37W @ 10'**

Project: GCU 215 **Collection Date:** 6/5/2014 9:00:00 AM Matrix: SOIL Lab ID: 1406321-003 **Received Date:** 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/9/2014 11:50:29 PM	13570
Surr: DNOP	130	57.9-140	%REC	1	6/9/2014 11:50:29 PM	13570
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/9/2014 9:31:40 PM	13564
Surr: BFB	93.4	80-120	%REC	1	6/9/2014 9:31:40 PM	13564
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/9/2014 9:31:40 PM	13564
Toluene	ND	0.047	mg/Kg	1	6/9/2014 9:31:40 PM	13564
Ethylbenzene	ND	0.047	mg/Kg	1	6/9/2014 9:31:40 PM	13564
Xylenes, Total	ND	0.093	mg/Kg	1	6/9/2014 9:31:40 PM	13564
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	6/9/2014 9:31:40 PM	13564
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 4:19:45 PM	13585

Sample ID: K

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1406321

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/11/2014

CLIENT: Blagg Engineering Client Sample ID: 210' S48W @ 11'

 Project:
 GCU 215
 Collection Date: 6/5/2014 9:06:00 AM

 Lab ID:
 1406321-004
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	Ar	alyst: BCN			
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 6/10/2014 12:49:3	8 AM 13570
Surr: DNOP	117	57.9-140	%REC	1 6/10/2014 12:49:3	8 AM 13570
EPA METHOD 8015D: GASOLINE RANGE			An	alyst: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1 6/9/2014 10:01:42	PM 13564
Surr: BFB	88.5	80-120	%REC	1 6/9/2014 10:01:42	PM 13564
EPA METHOD 8021B: VOLATILES				An	alyst: NSB
Benzene	ND	0.049	mg/Kg	1 6/9/2014 10:01:42	PM 13564
Toluene	ND	0.049	mg/Kg	1 6/9/2014 10:01:42	PM 13564
Ethylbenzene	ND	0.049	mg/Kg	1 6/9/2014 10:01:42	PM 13564
Xylenes, Total	ND	0.098	mg/Kg	1 6/9/2014 10:01:42	PM 13564
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1 6/9/2014 10:01:42	PM 13564
EPA METHOD 300.0: ANIONS				Ar	alyst: JRR
Chloride	ND	30	mg/Kg	20 6/9/2014 4:32:10	PM 13585

Sample ID: L

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

Qualifiers:

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

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Lab Order **1406321**Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 170' S63W @ 11'

 Project:
 GCU 215
 Collection Date: 6/5/2014 9:11:00 AM

 Lab ID:
 1406321-005
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	: BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/10/2014 1:19:24 AM	13570
Surr: DNOP	133	57.9-140	%REC	1	6/10/2014 1:19:24 AM	13570
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/7/2014 11:12:05 PM	13564
Surr: BFB	85.6	80-120	%REC	1	6/7/2014 11:12:05 PM	13564
EPA METHOD 8021B: VOLATILES	EPA METHOD 8021B: VOLATILES				Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2014 11:12:05 PM	13564
Toluene	ND	0.049	mg/Kg	1	6/7/2014 11:12:05 PM	13564
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2014 11:12:05 PM	13564
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2014 11:12:05 PM	13564
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/7/2014 11:12:05 PM	13564
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 5:09:24 PM	13585

Sample ID: M

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

Qualifiers:

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

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1406321

Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** 141' S72W @ 11' **Project:** GCU 215 **Collection Date:** 6/5/2014 9:16:00 AM

Lab ID: 1406321-006 Matrix: SOIL **Received Date:** 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/10/2014 1:48:50 AM	13570
Surr: DNOP	123	57.9-140	%REC	1	6/10/2014 1:48:50 AM	13570
EPA METHOD 8015D: GASOLINE RANGE					Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/7/2014 11:40:34 PM	13564
Surr: BFB	86.5	80-120	%REC	1	6/7/2014 11:40:34 PM	13564
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2014 11:40:34 PM	13564
Toluene	ND	0.049	mg/Kg	1	6/7/2014 11:40:34 PM	13564
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2014 11:40:34 PM	13564
Xylenes, Total	ND	0.097	mg/Kg	1	6/7/2014 11:40:34 PM	13564
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	6/7/2014 11:40:34 PM	13564
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 5:21:48 PM	13585

Sample ID: N

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical ReportLab Order **1406321**

Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 121' S88W @ 11'

 Project:
 GCU 215
 Collection Date: 6/5/2014 9:20:00 AM

 Lab ID:
 1406321-007
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/10/2014 2:18:30 AM	13570
Surr: DNOP	129	57.9-140	%REC	1	6/10/2014 2:18:30 AM	13570
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/8/2014 12:09:05 AM	13564
Surr: BFB	88.4	80-120	%REC	1	6/8/2014 12:09:05 AM	13564
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/8/2014 12:09:05 AM	13564
Toluene	ND	0.047	mg/Kg	1	6/8/2014 12:09:05 AM	13564
Ethylbenzene	ND	0.047	mg/Kg	1	6/8/2014 12:09:05 AM	13564
Xylenes, Total	ND	0.093	mg/Kg	1	6/8/2014 12:09:05 AM	13564
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	6/8/2014 12:09:05 AM	13564
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 5:34:13 PM	13585

Sample ID: O

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 7 of 13
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1406321**Date Reported: 6/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 113' N73W @ 10'

 Project:
 GCU 215
 Collection Date: 6/5/2014 9:25:00 AM

 Lab ID:
 1406321-008
 Matrix: SOIL
 Received Date: 6/6/2014 10:09:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analysi	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/10/2014 2:48:16 AM	13570
Surr: DNOP	120	57.9-140	%REC	1	6/10/2014 2:48:16 AM	13570
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/9/2014 10:31:51 PM	13564
Surr: BFB	91.1	80-120	%REC	1	6/9/2014 10:31:51 PM	13564
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.049	mg/Kg	1	6/9/2014 10:31:51 PM	13564
Toluene	ND	0.049	mg/Kg	1	6/9/2014 10:31:51 PM	13564
Ethylbenzene	ND	0.049	mg/Kg	1	6/9/2014 10:31:51 PM	13564
Xylenes, Total	ND	0.097	mg/Kg	1	6/9/2014 10:31:51 PM	13564
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	6/9/2014 10:31:51 PM	13564
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	ND	30	mg/Kg	20	6/9/2014 5:46:37 PM	13585

Sample ID: P

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

Qualifiers:

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

Page 8 of 13

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1408263**

Date Reported: 8/13/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NSW-EAST END @ 6' - (150',

 Project:
 GCU # 215
 Collection Date: 8/5/2014 10:15:00 AM

 Lab ID:
 1408263-001
 Matrix: SOIL
 Received Date: 8/6/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2014 10:38:46 PM	14641
Surr: DNOP	106	57.9-140	%REC	1	8/8/2014 10:38:46 PM	14641
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2014 3:03:50 PM	14652
Surr: BFB	92.8	80-120	%REC	1	8/8/2014 3:03:50 PM	14652

Sample ID: Q

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 4
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1408263

Date Reported: 8/13/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NSW - WEST END @ 6' - (147',

 Project:
 GCU # 215
 Collection Date: 8/5/2014 10:45:00 AM

 Lab ID:
 1408263-002
 Matrix: SOIL
 Received Date: 8/6/2014 7:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/8/2014 11:43:04 PM	14641
Surr: DNOP	103	57.9-140	%REC	1	8/8/2014 11:43:04 PM	14641
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/8/2014 5:55:57 PM	14652
Surr: BFB	92.4	80-120	%REC	1	8/8/2014 5:55:57 PM	14652

Sample ID: R

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

Qualifiers:

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

Page 2 of 4

- $P \hspace{0.5cm} \hbox{Sample pH greater than 2.} \\$
- RL Reporting Detection Limit

Lab Order 1408322

Date Reported: 8/13/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 160' N34E @ 8'

 Project:
 GCU 215
 Collection Date: 8/6/2014 11:05:00 AM

 Lab ID:
 1408322-001
 Matrix: SOIL
 Received Date: 8/7/2014 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/9/2014 2:13:30 AM	14641
Surr: DNOP	102	57.9-140	%REC	1	8/9/2014 2:13:30 AM	14641
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2014 9:45:08 PM	14652
Surr: BFB	90.7	80-120	%REC	1	8/8/2014 9:45:08 PM	14652
EPA METHOD 8021B: VOLATILES					Analys	t: DJF
Benzene	ND	0.049	mg/Kg	1	8/8/2014 9:45:08 PM	14652
Toluene	ND	0.049	mg/Kg	1	8/8/2014 9:45:08 PM	14652
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2014 9:45:08 PM	14652
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2014 9:45:08 PM	14652
Surr: 4-Bromofluorobenzene	98.7	80-120	%REC	1	8/8/2014 9:45:08 PM	14652
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	8/8/2014 3:30:47 PM	14668

Sample ID: S

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

Qualifiers:

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

Page 1 of 6

Lab Order 1408322

Date Reported: 8/13/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: 141' N14W @ 10'

 Project:
 GCU 215
 Collection Date: 8/6/2014 11:21:00 AM

 Lab ID:
 1408322-002
 Matrix: SOIL
 Received Date: 8/7/2014 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/9/2014 2:34:54 AM	14641
Surr: DNOP	66.3	57.9-140	%REC	1	8/9/2014 2:34:54 AM	14641
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	:: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2014 10:13:48 PM	14652
Surr: BFB	90.1	80-120	%REC	1	8/8/2014 10:13:48 PM	14652
EPA METHOD 8021B: VOLATILES					Analyst	:: DJF
Benzene	ND	0.049	mg/Kg	1	8/8/2014 10:13:48 PM	14652
Toluene	ND	0.049	mg/Kg	1	8/8/2014 10:13:48 PM	14652
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2014 10:13:48 PM	14652
Xylenes, Total	ND	0.097	mg/Kg	1	8/8/2014 10:13:48 PM	14652
Surr: 4-Bromofluorobenzene	97.5	80-120	%REC	1	8/8/2014 10:13:48 PM	14652
EPA METHOD 300.0: ANIONS					Analyst	:: JRR
Chloride	57	30	mg/Kg	20	8/8/2014 3:18:22 PM	14668

Sample ID: T

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

Qualifiers:

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

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Project Name: Project Number: Project Manager: GCU 215 94034-0011

Jeff Blagg

Reported: 18-Aug-14 10:05

96' N41W @ 10' P408058-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	50-	150	1433025	08/15/14	08/15/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		102 %	50-	150	1433025	08/15/14	08/15/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1433025	08/15/14	08/15/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1433022	08/15/14	08/15/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		96.6 %	50-200		1433022 08/15/14		08/15/14 EPA 8015D		
Cation/Anion Analysis									
Chloride	22.4	9.87	mg/kg	1	1433029	08/15/14	08/15/14	EPA 300.0	

Sample ID: U



Project Name: Project Number: Project Manager: GCU 215 94034-0011

Jeff Blagg

Reported:

26-Aug-14 09:58

South 1 @ 10' P408071-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		94.5 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.6 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1434018	08/20/14	08/21/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		119 %	50-200		1434018	08/20/14	08/21/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	20.6	9.84	mg/kg	1	1434012	08/19/14	08/19/14	EPA 300.0	

Sample ID: V



Project Name: Project Number: Project Manager: GCU 215 94034-0011

Jeff Blagg

Reported: 26-Aug-14 09:58

South 2 @ 10' P408071-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.8 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1434018	08/20/14	08/21/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		117 %	50-200		1434018	08/20/14	08/21/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	20.8	9.53	mg/kg	1	1434012	08/19/14	08/19/14	EPA 300.0	

Sample ID: W



Project Name: Project Number:

Project Manager:

GCU 215 94034-0011

Jeff Blagg

Reported: 26-Aug-14 09:58

93' Due East @ 8' P408071-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Tharye	Result	Liiiit	Cints	Dilution	Daten	Trepared	Milaryzea	Wethod	110103
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.3 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.6 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1434018	08/20/14	08/21/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		99.1 %	50	200	1434018	1434018 08/20/14		EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.85	mg/kg	1	1434012	08/19/14	08/19/14	EPA 300.0	

Sample ID: X



Project Name: Project Number: GCU 215

Project Number: 94034-0011 Project Manager: Jeff Blagg

Reported:

26-Aug-14 09:58

105' N 54 E @ 8' P408071-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.2 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		98.4 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1434018	08/20/14	08/21/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		101 %	50-	200	1434018	08/20/14	08/21/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	11.3	9.82	mg/kg	1	1434012	08/19/14	08/19/14	EPA 300.0	

Sample ID: Y



Project Name: Project Number: GCU 215 94034-0011

Reported:

Project Manager:

Jeff Blagg

26-Aug-14 09:58

114' N 17 W @10' P408071-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
p,m-Xylene	ND	0.10	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		91.4 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.4 %	50-	150	1434020	08/20/14	08/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1434020	08/20/14	08/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	34.9	mg/kg	1	1434018	08/20/14	08/21/14	EPA 8015D	
Surrogate: Benzo[a]pyrene		124 %	50-	200	1434018	08/20/14	08/21/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	29.0	9.85	mg/kg	1	1434012	08/19/14	08/19/14	EPA 300.0	

Sample ID: Z

REMEDIATION

LABORATORY

CHAIN-OF-CUSTODY

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		Bloom	field, NM 87413	Project #:				490	, NM 8	7109)						
Phone #:		(505)32	20-1183			4901 Hawkins NE - Albuquerque, NM 87 Tel. 505-345-3975 Fax 505-345-4107											
email or Fa	c# ;			Project Man						/	Analy	sis Re	quest				
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)		8015B						Chloride		
5/05/2014	8:55	Soil	129' S46E @ 8'	40z x 1	cool	1405301			<u> </u>	1					흥		
5/05/2014	8:59	Soil	159' S32E @ 8'	40z x 1	cool	-001	X								x		
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5/05/2014	9:06	Soil	196' S18E @ 8'	40z x 1	cool	-004	<u> </u>	×		 		4			x	\int	
5/05/2014	9:10		228' S11E @ 8'	4oz x 1	cool	-009	X	X	+-	++		-		 	x		
5/05/2014	9:13	Soil	250' S7 1/2 E @ 8'	40z x 1	cool	-006		X	┪	1-1					x _	$oldsymbol{\perp}$	
5/05/2014	9:19	Soil	109' S60E @ 8'	40z x 1	cool	-007	X	×		-		1-1		1-1:	x		
5/05/2014	9:24	Soil	80' Due E @ 6'	40z x 1	cool	-008	X	X	+	-	_ _			<u> </u>	<u> </u>		
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Date	Time	Matrix	Sample Request ID		Preservative Type	HEAL No. 1405974	BTEX (8021)		TPH 8015B (GRO / DRO)							Chloride	Air Bubbles (Y
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Date	Time	Matrix	Sample Request ID	Type and #	Туре	1406321	BTEX (8021)	T H							Chloride	Air Bubbles (Y
06/05/2014	8:46	Soil	252' S17W @ 8'	4oz x 1	cool	-001	х	х	1						х	
06/05/2014	8:53	Soil	253' S25W @ 8'	4oz x 1	cool	-602	x	×							х	
06/05/2014	9:00	Soil	241' S37W @ 10'	4oz x 1	cool	- 003	х	х							x	
06/05/2014	9:06	Soil	210' S48W @ 11'	4oz x 1	cool	- co4	х	х							×	
06/05/2014	9:11	Soil	170' S63W @ 11'	4oz x 1	cool	-005	x	×	<u> </u>						×	
06/05/2014	9:16	Soil	141' S72W @ 11'	4oz x 1	cool	-006	х	X							×	
06/05/2014	9:20	Soil	121' S88W @ 11'	4oz x 1	cool	-007	x	×							×	
06/05/2014	9:25	Soil	113' N73W @ 10'	4oz x 1	cool	-008	X	x							×	
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QA/QC Pad	_		Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)	(Aluo	/wine)			15)		PO4,SC	PCB's			ter - 300.1)			e	
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1408263	BTEX +-NATE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	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 / water		Grab sample	5 pt. composite sample	
8/5/14	1015	SOIL	NSW - EAST END @ 6' -	4 oz 1	Cool	-001			7											٧		
			(150', N14E) from W.H.																			•
8/5/14	1045	SOIL	NSW - WEST END @ 6' -	4 oz 1	Cool	-002			٧											V		
			(147', N4E) from W.H.																			•
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1/5/14	1707	1 M	nVJ	Chroticle	ale	8/5/14 1707	Remarks: TPH (8015B) - GRO & DRO ONLY. Send invoice to : Blagg Engineering, Inc.															
Date:	Time:	Relinquish	i .	Received by:	/ /)	Date Time	7				P.0	O. Bo	ox 87	,								
8/5/14	1910	/Yuu	etu Waller	[(h	u Shot	1/06/14 073	+			P.O. Box 87 Bloomfield, NM 87413									_			

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		(505)320	<u></u>	-				1 61.	. 000			sis F					
Phone #:		(505)320	-1103	Project Mana	der.												Т
email or Fax				Project Mana	Jeff Blagg										1		
QA/QC Packa	_		☐ Level 4 (Full Validation	l \	Jeli blagg				<u> </u>								
Standard			•	Sampler:	Jeff Blagg		┦		(GRO / DRO)								
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- CDD (13)			-	Sample Tem		1-D			<u>Ö</u>		:						≥
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1408322	BTEX (8021)		TPH 8015B							Chloride	Air Bubbles
08/06/2014	11:05	Soil	160' N34E @ 8'	4oz x 1	cool	-001	x		х							х	
08/06/2014	11:21	Soil	141' N14W @ 10'	4oz x 1	cool	-002	x		х							х	Τ
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Date: 3/6/2014	Time:	Refinquish	1 Slegg	Received by: Math	Male	Date Time	BP (Conta	: Bill act: J frey@	eff Pe	ace	Pl	lease	copy	resul	ts to:	
Date: 8/4/14	Time: 1920	Refinquish	inter Waller	Received by:	2 08/0-	Date Time 7/14 0745 serves as potice of this poss											

17330

CHAIN OF CUSTODY RECORD

Client: BLAGE English BP A Menica Email results to: jeff chae	neary -	Inc. P	oject Name / Location	on:							Α	NALY	YSIS	/ PAF	RAMI	ETER	S				
Email results to: Teffc Has	40 AOC	- Con S	ampler Name:					7	6												T
Peace jeffor 0	BP COM	4	I RIDE	10-			015	802	3260					22							
Peace , Jeffry C Client Phone No.: 505-320-1		С	J- Blag ient No.: 94034-	0011			ethod 8	Method	lethod 8	3 Metals	Anion		rith H/P	le 910-	18.1)	IIDE			10	Cool	IIIIau
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Pr HNO ₃	eservative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample
96'N4IW@10'	3/14/14	1503	P408058-01	1×402			X	X								X			1	Y>	/
								V												+	
											SH		45	A	P						
							+		E	SIL	L	150	LA	6	5					+	-
																					-
Relinquished by: (Signature)				Date Time	Recei	ved by:	(Signa	iture)										D	ate	Time	9
Jeff Blogo	7		9	4/204 1555			-	-	1	1	2	1						8/14	14	155	5
Relinquished by: (Signature)				Z (1/1233)	Recei	ved by:	(Signa	ture)				-									
Sample Matrix																					
Soil Solid Sludge	Aqueous [Other [1																		
☐ Sample(s) dropped off after			off area.	env Ana					Duran	go. C	0 81	7.		rator	v@en	virote	ch-ind	c.com			

17334

CHAIN OF CUSTODY RECORD

Client: BLAGG FUGUE	Equil. T	Pr	oject Name / Locatio								Α	NAL	/SIS	/ PAF	RAMI	ETERS				
BLAGO ENGINE Email results to: jeffeblag	a @ AUL.	com Sa	mpler Name:	-10			+	7											Т	\neg
peace ieffrey @ B	P. Com		J. BLA	66			21.0	802	3260	"				_						
Peace. jeffrey @ B Client Phone No.: 505-320-118		Cli	ent No.: 9403	4-0011			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	18.1)	SIDE			Cool	Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Рг нио ₃	reservative	TPH (X	BTEX (VOC (A	RCRA	Cation	RCI	TCLP v	CO Tab	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
SOUTH 1 @ 10'	9/14/2014	1439	P408071-01	1×402			×	×								×			V	V
SOUTH 2 @ 10'	tr		P408071-02	Ц			×	X								×				1
93' EAST @ 8'	10	1450	P408071-03	If			×	×								X			1	
105' N54ECB'	10	1452	P408071-04	tr			×	×								×			1	
114'N17We10'	II.	1459	P408071-05	II .			×	×								×			~	
								E	Siu	E	SU	160	10							
Relinquished by: (Signature) Relinquished by: (Signature)			9	Date Time		ived by:	-	X			1	7	R				8/	Date //5//	Tir	
Sample Matrix Soil Solid Sludge	Aqueous 🗆	Other []																	
☐ Sample(s) dropped off after			off area.	env Ana		,			Duran	9	7	301 •				0.3	-inc.co	m		

REMEDIATION LABORATORY QUALITY ASSURANCE / QUALITY CONTROL

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3668 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 3668 RunNo: 5415

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154533 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-3668 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 3668 RunNo: 5415

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154534 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.2 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Surr: DNOP

Sample ID MB-3669 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: PBS Batch ID: 3669 RunNo: 5402

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154019 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 11 10.00 111 77.6 140

Sample ID LCS-3669 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: LCSS Batch ID: 3669 RunNo: 5402

4.4

Prep Date: 9/10/2012 Analysis Date: 9/10/2012 SeqNo: 154022 Units: mg/Kg

5.000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 36 10 50.00 71.9 52.6 130

88.3

77.6

140

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3703 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range

Client ID: PBW Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 154966 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 1.2 1.000 118 79.5 166

Sample ID LCS-3703 SampType: LCS TestCode: EPA Method 8015B: Diesel Range

Client ID: LCSW Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 155418 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 0.49 0.5000 97.1 79.5 166

Sample ID LCSD-3703 SampType: LCSD TestCode: EPA Method 8015B: Diesel Range

Client ID: LCSS02 Batch ID: 3703 RunNo: 5423

Prep Date: 9/11/2012 Analysis Date: 9/11/2012 SeqNo: 155419 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 0.42 0.5000 84.4 79.5 166 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-3657 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: PBS Batch ID: 3657 RunNo: 5409

Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154770 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 1000 1000 102 84 116

Sample ID LCS-3657 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: LCSS Batch ID: 3657 RunNo: 5409

Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154771 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
 103
 74
 117

 Surr: BFB
 1100
 1000
 106
 84
 116

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **1209275**

14-Sep-12

Client: Blagg Engineering

Project: GCU #215

Surr: 4-Bromofluorobenzene

Sample ID MB-3657 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS RunNo: 5409 Client ID: Batch ID: 3657 Prep Date: 9/7/2012 Analysis Date: 9/10/2012 SeqNo: 154791 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10

1.000

104

80

120

Sample ID LCS-3657	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 36	57	R	RunNo: 5	409				
Prep Date: 9/7/2012	Analysis [Date: 9/	10/2012	S	SeqNo: 1	54792	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.050	1.000	0	94.4	76.3	117			
Toluene	0.97	0.050	1.000	0	96.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	77	116			
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Qualifiers:

^{*} Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit



11au Environmeniai Analysis Laborator) 4901 Hawkins NE

Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: B	BLAGG		Work Order Number	r: 1209275	_
Received by/date:	AF B	9/68/12			
Logged By: A	inne Thorne	9/8/2012 11:15:00	AM C	Am H-	
Completed By: A	nne Thorne	9/10/2012	(Done Stran	
Reviewed By:	ma	09/10/12	J		
Chain of Custod		0 4.07			
1. Were seals inta	act?		Yes 🗌 No 🗀	Not Present ✓	
2. Is Chain of Cus	tody complete?		Yes 🗹 No 🗌	Not Present	
3. How was the sa	ample delivered?		<u>Courier</u>		
<u>Log In</u>		•			
4. Coolers are pre	esent? (see 19. for co	oler specific information)	Yes 🗸 No 🗌	NA 🗆	
5. Was an attemp	t made to cool the sa	mples?	Yes 🗹 No 🗆	NA □	
6. Were all sample	es received at a temp	erature of >0° C to 6.0°C	Yes 🗹 No 🗆	NA 🗆	
7. Sample(s) in pr	oper container(s)?		Yes ✔ No]	
8. Sufficient samp	le volume for indicate	ed test(s)?	Yes ☑ No ☐]	
-	xcept VOA and ONG		Yes 🗹 No 🗆]	
	ve added to bottles?		Yes 🗌 No 🗹	NA 🗆	
11, VOA vials have	zero headspace?		Yes ☐ No ☐	No VOA Vials ✓	
12. Were any samp	ole containers receive	d broken?	Yes 🗌 No 🔽		
	k match bottle labels? ncies on chain of cust		Yes 🗹 No 🗌	# of preserved bottles checked for pH:	
14. Are matrices co	orrectly identified on C	hain of Custody?	Yes 🗹 No 🗌	(<2 or	>12 unless noted)
15. Is it clear what a	analyses were reques	ted?	Yes 🗹 No 🗔	Adjusted?	
	g times able to be me stomer for authorization		Yes 🗸 No 🗌	Checked by:	
Special Handling	g (if applicable)				
17. Was client notif	ied of all discrepancie	es with this order?	Yes 🗌 No 🗌	NA 🗹	
Person No	otified:	Date			
By Whom:		Via:	eMail Phon	e 🗌 Fax 🔲 In Person	
Regarding	:			The second secon	
Client Insti	ructions:				
18. Additional rema	ırks:				
19 Cooler Informa	ation				
	Temp °C Conditio	n Seal Intact Seal No	Seal Date Sig	ned By	
1 2	2.8 Good	Yes			

Hall Environmental Analysis Laboratory, Inc.

WO#: 1209930

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-3882 SampType: MBLK TestCode: EPA Method 8015B: Diesel Range Organics Client ID: Batch ID: 3882 RunNo: 5697 Prep Date: 9/22/2012 Analysis Date: 9/23/2012 SeqNo: 163829 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 ND DNOP 0 10.00 109 77.6 140 11

Sample ID LCS-3882 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics

Client ID: Batch ID: 3882 RunNo: 5697

Prep Date: 9/22/2012 Analysis Date: 9/23/2012 SeqNo: 163830 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 35 10 50.00 0 69.6 52.6 130 DNOP 4.7 0 5.000 0 93.5 77.6 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2

- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209930**

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

BFB

Sample ID MB-3881 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range

Client ID: Batch ID: 3881 RunNo: 5824

Prep Date: 9/22/2012 Analysis Date: 9/27/2012 SeqNo: 167530 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

BFB 990 0 1000 0 99.3 84 116

Sample ID LCS-3881 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range

Client ID: Batch ID: 3881 RunNo: 5824

0

1000

Prep Date: 9/22/2012 Analysis Date: 9/27/2012 SeqNo: 167531 Units: mg/Kg

1000

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 74 117

0

104

84

116

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209930**

01-Oct-12

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-3881	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	iles		
Client ID:	Batcl	h ID: 38	81	F	RunNo: 5	783				
Prep Date: 9/22/2012	Analysis D	Date: 9/	26/2012	8	SeqNo: 1	66796	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
4-Bromofluorobenzene	1.0	0	1.000	0	99.7	80	120			
m,p-Xylene	ND	0.050								
o-Xylene	ND	0.050								
1,2,4-Trimethylbenzene	0.0097	0.050								
1,3,5-Trimethylbenzene	0.0078	0.050								

Sample ID LCS-3881	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles			
Client ID:	Batc	h ID: 38	81	F	RunNo: 5	783					
Prep Date: 9/22/2012	Analysis [Date: 9/	26/2012	5	SeqNo: 1	66797	Units: mg/k	ίg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.95	0.050	1.000	0	95.3	76.3	117				
Toluene	0.98	0.050	1.000	0	97.8	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	77	116				
Xylenes, Total	3.1	0.10	3.000	0	102	76.7	117				
4-Bromofluorobenzene	1.0	0	1.000	0	104	80	120				
m,p-Xylene	2.1	0.050									
o-Xylene	1.0	0.050									
1,2,4-Trimethylbenzene	1.0	0.050									
1.3.5-Trimethylbenzene	1.0	0.050									

Qualifiers:

P Sample pH greater than 2

R RPD outside accepted recovery limits

^{*} Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



Hall Environmental Analysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410', Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1209930 Received by/date: Logged By: Michelle Garcia 9/21/2012 10:00:00 AM Completed By: Michelle Garcia 9/21/2012 10:57:33 AM Reviewed By: -7 Chain of Custody 1. Were seals intact? Yes No Not Present Yes 🗸 No 🗌 2. Is Chain of Custody complete? Not Present 3. How was the sample delivered? Courier Log in 4. Coolers are present? (see 19. for cooler specific information) Yes 🗹 No 🗌 NA 🗆 5. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗔 Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 NA 🔲 Yes 🗹 No 🗌 7. Sample(s) in proper container(s)? Yes 🗸 No 🗌 8. Sufficient sample volume for indicated test(s)? Yes 🔽 No 🗌 9. Are samples (except VOA and ONG) properly preserved? 10. Was preservative added to bottles? Yes No 🗸 NA 🗍 11, VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials 🗹 Yes U No 🗹 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: 14. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 (<2 or >12 unless noted) Adjusted? 15. Is it clear what analyses were requested? Yes 🔽 No 🗌 Yes 🗸 No 🗌 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes 🗌 No 🔲 NA 🔽 Person Notified: Date: By Whom: Via: Phone Fax In Person Regarding: Client Instructions: 18, Additional remarks: 19. Cooler Information Cooler No | Temp °C Condition | Seal Intact | Seal No Seal Date Signed By Good

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405301**

14-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13092 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 13092 RunNo: 18523

Prep Date: 5/9/2014 Analysis Date: 5/9/2014 SeqNo: 534804 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-13092 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 13092 RunNo: 18523

Prep Date: 5/9/2014 Analysis Date: 5/9/2014 SeqNo: 534805 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.5 90 110

Qualifiers:

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

Page 9 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: 14

1405301

14-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13058 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS Batch ID: 13058 RunNo: 18502

Prep Date: 5/7/2014 Analysis Date: 5/9/2014 SeqNo: 534315 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Surr: DNOP 9.2 10.00 91.6 57.9 140

Sample ID LCS-13058 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 13058 RunNo: 18502

Prep Date: 5/7/2014 Analysis Date: 5/9/2014 SeqNo: 534338 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 51
 10
 50.00
 0
 101
 60.8
 145

 Surr: DNOP
 4.4
 5.000
 87.9
 57.9
 140

Sample ID 1405301-001AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: 129' S46E @ 8' Batch ID: 13058 RunNo: 18502

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534863 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 48
 9.9
 49.60
 0
 96.0
 40.1
 152

 Surr: DNOP
 4.9
 4.960
 98.1
 57.9
 140

Sample ID 1405301-001AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: 129' \$46E @ 8' Batch ID: 13058 RunNo: 18502

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534864 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 55 10 50.20 110 40.1 152 14.6 32.1 Λ Surr: DNOP 5.2 5.020 103 57.9 140 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

RL Reporting Detection Limit

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405301**

14-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13069 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **13069** RunNo: **18509**

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534514 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 880 1000 88.3 74.5 129

Sample ID LCS-13069 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 13069 RunNo: 18509

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534515 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 96.1
 71.7
 134

 Surr: BFB
 970
 1000
 97.3
 74.5
 129

Sample ID 1405301-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: 129' S46E @ 8' Batch ID: 13069 RunNo: 18509

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534518 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 24
 4.6
 22.98
 0
 106
 69.5
 145

 Surr: BFB
 900
 919.1
 97.6
 74.5
 129

Sample ID 1405301-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: 129' S46E @ 8' Batch ID: 13069 RunNo: 18509

Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534519 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 4.6 22.96 103 69.5 145 2.43 20 Λ Surr: BFB 900 918.3 97.6 74.5 129 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1405301**

14-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13069 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 13069 RunNo: 18509 SeqNo: 534548 Prep Date: 5/8/2014 Analysis Date: 5/9/2014 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120

Sample ID LCS-13069 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 13069 Client ID: **LCSS** RunNo: 18509 Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534549 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0.050 1.000 O 109 120 Benzene 1.1 80 Toluene 1.0 0.050 1.000 0 101 80 120 Ethylbenzene 0.99 0.050 0 99.4 80 120 1.000 Xylenes, Total 2.9 0.10 3.000 0 97.5 80 120 Surr: 4-Bromofluorobenzene 1.1 1.000 110 80 120

Sample ID 1405301-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: 159' S32E @ 8' Batch ID: 13069 RunNo: 18509 5/8/2014 Analysis Date: 5/9/2014 SeaNo: 534553 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.1 0.049 0.9747 110 67.4 135 Λ Toluene 1.0 0.049 0.9747 0.008535 103 72.6 135 0.049 0.9747 104 69.4 143 Ethylbenzene 1.0 0 0.01300 Xylenes, Total 3.0 0.097 2.924 102 70.8 144 Surr: 4-Bromofluorobenzene 0.9747 1.1 115 80 120

Sample ID 1405301-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: 159' S32E @ 8' Batch ID: 13069 RunNo: 18509 Prep Date: 5/8/2014 Analysis Date: 5/9/2014 SeqNo: 534554 Units: mg/Kg %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual 0.93 0.049 0.9737 0 95.2 67.4 135 14.1 20 Benzene Toluene 0.87 0.049 0.9737 0.008535 88.1 72.6 135 15.5 20 Ethylbenzene 0.87 0.049 0.9737 0 89.4 69.4 143 15.7 20 Xylenes, Total 2.6 0.097 2.921 0.01300 86.9 70.8 144 16.1 20 Surr: 4-Bromofluorobenzene 0.9737 80 120 0 0 1.1 112

Qualifiers:

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

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

Sample Log-In Check List

BLAGG Client Name: Work Order Number: 1405301 RcptNo: 1 AG Received by/date: Logged By: Celina Sessa 5/7/2014 10:08:00 AM Completed By: Celina Sessa 5/7/2014 4:49:07 PM Reviewed By: Chain of Custody Yes 🗌 No 🔲 Not Present 1. Custody seals intact on sample bottles? No 🗌 Yes 🗹 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier <u>Log In</u> No 🗌 Yes 🛂 NA 🗌 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 NA 🗍 No 🗌 Yes 🗸 Sample(s) in proper container(s)? Yes 🗹 No 🗔 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 🗌 No 🗹 NA 🗌 9. Was preservative added to bottles? Yes No VOA Vials 🗹 10. VOA vials have zero headspace? Yes 🗌 No 🗌 No 🔽 11. Were any sample containers received broken? # of preserved bottles checked No \square 12. Does paperwork match bottle labels? Yes 🔽 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? Yes 🗸 No 🗌 13. Are matrices correctly identified on Chain of Custody? **V** No 🗀 14. is it clear what analyses were requested? Yes Checked by: 15. Were all holding times able to be met? Yes 🗸 No 🗔 (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA 🔽 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C | Condition Seal Intact Seal No Seal Date Signed By Good 1.6 Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405976**

27-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13335 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 13335 RunNo: 18847

Prep Date: 5/23/2014 Analysis Date: 5/23/2014 SeqNo: 544228 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-13335 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 13335 RunNo: 18847

Prep Date: 5/23/2014 Analysis Date: 5/23/2014 SeqNo: 544229 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.2 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

4.7

WO#: **1405976**

27-May-14

Client: Blagg Engineering

Project: GCU 215

Surr: DNOP

Sample ID MB-13321 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **PBS** Batch ID: 13321 RunNo: 18820 Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543460 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 ND Surr: DNOP 10.00 95.1 57.9 9.5 140

Sample ID LCS-13321 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS Batch ID: 13321 RunNo: 18820

Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543509 Units: mg/Kg

5.000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.00 93.6 60.8 145

94.3

57.9

140

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1405976**

27-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13319 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 13319 RunNo: 18829

Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543975 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 810 1000 81.3 80 120

Sample ID LCS-13319 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 13319 RunNo: 18829

Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543976 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 20
 5.0
 25.00
 0
 80.0
 71.7
 134

 Surr: BFB
 890
 1000
 88.7
 80
 120

Sample ID MB-13327 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 13327 RunNo: 18829

Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543996 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 850 1000 84.5 80 120

Sample ID LCS-13327 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 13327 RunNo: 18829

Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 543997 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 900 1000 90.3 80 120

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1405976**

27-May-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13319 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 13319 RunNo: 18829 Prep Date: 5/22/2014 Analysis Date: 5/23/2014 SeqNo: 544018 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 0.95 Surr: 4-Bromofluorobenzene 1.000 94.8 80 120

Sample ID LCS-13319	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 13	319	R	RunNo: 1	8829				
Prep Date: 5/22/2014	Analysis D	Date: 5/	23/2014	S	SeqNo: 5	44019	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	80	120			
Toluene	1.0	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com Work Order Number: 1405976 Client Name: **BLAGG** RcptNo: 1 Received by/date: Lindsay Mangin 5/22/2014 10:00:00 AM Logged By: Completed By: Lindsay Mangin 5/22/2014 1:09:41 PM 05/22/14 65 Reviewed By: Chain of Custody Not Present ▼ Yes 🗌 1. Custody seals intact on sample bottles? No Yes 🗹 Not Present Nο 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In No 🗀 Yes 🗸 NA 🗌 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗹 No 🗆 Yes 🗸 Nο 6. Sample(s) in proper container(s)? No 🗌 Yes 🔽 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗌 Yes 9. Was preservative added to bottles? No 🗌 No VOA Vials 🗹 Yes 🗌 10.VOA vials have zero headspace? Yes No 🗹 11. Were any sample containers received broken? # of preserved bottles checked Yes 🗹 No 📖 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? No 🗌 \square 14. Is it clear what analyses were requested? Yes Yes 🗹 No 🗆 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable)

16.\	Was client notified of all o	liscrepancies with this order?	Yes 🗌	No 🗆	NA 🗹
	Person Notified:		Date:		
	By Whom:				In Person
	Regarding:	18 2 18 18 18 18 18 18 18 18 18 18 18 18 18	and a second conversion of the conversion of	The second secon	
	Client Instructions:				

17. Additional remarks:

18. Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact Seal No	Seal Date	Signed By
1	1.1	Good	Not Present		

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406321**

11-Jun-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13585 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **13585** RunNo: **19158**

Prep Date: 6/9/2014 Analysis Date: 6/9/2014 SeqNo: 553664 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-13585 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 13585 RunNo: 19158

Prep Date: 6/9/2014 Analysis Date: 6/9/2014 SeqNo: 553665 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.6 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1406321**

11-Jun-14

Client: Blagg Engineering

Project: GCU 215

Sample ID	MB-13570	SampTy	pe: MI	BLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	PBS	Batch	D: 13	570	R	RunNo: 19	9120				
Prep Date:	6/6/2014	Analysis Da	te: 6 /	/9/2014	S	SeqNo: 5	53331	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
Surr: DNOF)	8.1		10.00		81.4	57.9	140			
Sample ID	LCS-13570	SampTy	pe: LC	cs	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch	D: 13	570	R	RunNo: 19	9120				
Prep Date:	6/6/2014	Analysis Da	te: 6 /	/9/2014	S	SeqNo: 5	53332	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	55	10		0	109	60.8	145			
Surr: DNOF)	5.2		5.000		104	57.9	140			
Sample ID	1406222-001AMS	SampTy	oe: M	S	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	BatchQC	Batch	D: 13	570	R	RunNo: 19	9120				
Prep Date:	6/6/2014	Analysis Da	te: 6 /	/9/2014	S	SeqNo: 5	53344	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	56	10		0	111	40.1	152			
Surr: DNOF)	4.5		5.051		90.0	57.9	140			
Sample ID	1406222-001AMSI	D SampTy	pe: M	SD	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	BatchQC	Batch	D: 13	570	R	RunNo: 19	9120				
Prep Date:	6/6/2014	Analysis Da	te: 6	/9/2014	S	SeqNo: 5	53350	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	100	10		0	207	40.1	152	59.6	32.1	RS
Surr: DNOF)	4.7		5.025		93.8	57.9	140	0	0	
Sample ID	MB-13578	SampTy	oe: MI	BLK	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch	D: 13	578	R	RunNo: 19	9152				
Prep Date:	6/9/2014	Analysis Da	te: 6 /	/10/2014	S	SeqNo: 5	53568	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOF)	12		10.00		116	57.9	140			
Sample ID	LCS-13578	SampTy	pe: LC	es	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
	LCSS	Batch	D: 13	578	R	RunNo: 1 9	9152				
Client ID:	2000										
Prep Date:		Analysis Da	te: 6 /	/10/2014	S	SeqNo: 5	53571	Units: %RE	С		
		Analysis Da Result	te: 6 , PQL		SPK Ref Val	SeqNo: 5 9	53571 LowLimit	Units: %RE HighLimit	C %RPD	RPDLimit	Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1406321**

11-Jun-14

Client: Blagg Engineering

Project: GCU 215

Sample ID 1406344-001AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 13578 RunNo: 19152

Prep Date: 6/9/2014 Analysis Date: 6/10/2014 SeqNo: 553574 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.6 4.916 113 57.9 140

Sample ID 1406344-001AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 13578 RunNo: 19152

Prep Date: 6/9/2014 Analysis Date: 6/10/2014 SeqNo: 553635 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 6.1 4.990 123 57.9 140 0 0

Sample ID 1406239-001AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 13555 RunNo: 19152

Prep Date: 6/5/2014 Analysis Date: 6/10/2014 SeqNo: 554431 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.3 5.040 85.5 57.9 140

Sample ID 1406239-001AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: BatchQC Batch ID: 13555 RunNo: 19152

Prep Date: 6/5/2014 Analysis Date: 6/10/2014 SeqNo: 554432 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.1 4.916 84.1 57.9 140 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1406321**

11-Jun-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-13564 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 13564 RunNo: 19108

Prep Date: 6/6/2014 Analysis Date: 6/7/2014 SeqNo: 552282 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 880 1000 87.8 80 120

Sample ID LCS-13564 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 13564 RunNo: 19108

Prep Date: 6/6/2014 Analysis Date: 6/7/2014 SeqNo: 552283 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 90.8
 71.7
 134

 Surr: BFB
 930
 1000
 93.0
 80
 120

Sample ID 1406239-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BatchQC Batch ID: 13564 RunNo: 19108

Prep Date: 6/6/2014 Analysis Date: 6/7/2014 SeqNo: 552288 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 4.9
 24.39
 0
 104
 69.5
 145

 Surr: BFB
 950
 975.6
 97.5
 80
 120

Sample ID 1406239-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BatchQC Batch ID: 13564 RunNo: 19108

Prep Date: 6/6/2014 Analysis Date: 6/7/2014 SeqNo: 552289 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.9 24.49 106 69.5 145 2.40 20 Λ Surr: BFB 940 979.4 96.0 80 120 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1406321**

11-Jun-14

Client: Blagg Engineering

Project: GCU 215

Sample ID 1406314-001AMS	SampT	SampType: MS TestCode: EPA Method 8021B:						iles		
Client ID: BatchQC	Batch	ID: 13	564	F	RunNo: 19108					
Prep Date: 6/6/2014	Analysis Da	ate: 6/	7/2014	9	SeqNo: 5	52315	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.049	0.9852	0	120	67.4	135			
Toluene	1.1	0.049	0.9852	0	113	72.6	135			
Ethylbenzene	1.1	0.049	0.9852	0	113	69.4	143			
Xylenes, Total	3.3	0.099	2.956	0.01331	111	70.8	144			
Surr: 4-Bromofluorobenzene	1.1		0.9852		115	80	120			

Sample ID 1406314-001AMS	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batch	ID: 13	564	R	RunNo: 1	9108				
Prep Date: 6/6/2014	Analysis D	ate: 6/	7/2014	S	SeqNo: 5	52316	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9833	0	111	67.4	135	8.44	20	
Toluene	1.0	0.049	0.9833	0	104	72.6	135	8.15	20	
Ethylbenzene	1.0	0.049	0.9833	0	104	69.4	143	8.32	20	
Xylenes, Total	3.0	0.098	2.950	0.01331	102	70.8	144	8.92	20	
Surr: 4-Bromofluorobenzene	1.1		0.9833		114	80	120	0	0	

Sample ID LCS-13564	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 13	564	R	RunNo: 1	9108				
Prep Date: 6/6/2014	Analysis D	ate: 6/	7/2014	S	SeqNo: 5	52328	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	80	120			
Toluene	0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID MB-13564	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: 13	564	R	RunNo: 1	9108				
Prep Date: 6/6/2014	Analysis D	ate: 6/	7/2014	S	SeqNo: 5	52329	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1406321 Client Name: **BLAGG** Received by/date:_ 6/6/2014 10:09:00 AM Logged By: Michelle Garcia 6/6/2014 11:59:47 AM Completed By: Michelle Garcia Reviewed By: Chain of Custody Not Present 🗹 1. Custody seals intact on sample bottles? Yes Not Present Yes 🔽 No 🗌 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA \square Yes 🗹 No 🗌 4. Was an attempt made to cool the samples? NA 🗍 No 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🔽 6. Sample(s) in proper container(s)? **V** No 7. Sufficient sample volume for indicated test(s)? Yes ~ No 🗌 Yes 8. Are samples (except VOA and ONG) properly preserved? No 🗸 NA 🗌 Yes 🗌 9. Was preservative added to bottles? No 🗆 No VOA Vials Yes 10. VOA vials have zero headspace? No 🔽 11. Were any sample containers received broken? Yes # of preserved bottles checked **V** No \square for pH: Yes 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 13. Are matrices correctly identified on Chain of Custody? **✓** Nο 14. Is it clear what analyses were requested? Yes Checked by: Yes 🗹 No 🗀 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) No □ NA 🔽 Yes 🗌 16. Was client notified of all discrepancies with this order? Date: Person Notified: ☐ eMail Phone Fax In Person Via: By Whom: Regarding: Client instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C | Condition | Seal Intact | Seal No | Seal Date Signed By 1.7 Good Not Present

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408263

13-Aug-14

Client: Blagg Engineering

Project: GCU # 215

Sample ID MB-14641 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **PBS** Batch ID: 14641 RunNo: 20418 Prep Date: 8/7/2014 Analysis Date: 8/7/2014 SeqNo: 594027 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 10 ND

Diesel Range Organics (DRO)

Surr: DNOP 10.00 95.4 57.9 9.5 140

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID LCS-14641 SampType: LCS Client ID: LCSS Batch ID: 14641 RunNo: 20418 Prep Date: 8/7/2014 Analysis Date: 8/7/2014 SeqNo: 594028 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) 51 10 50.00 102 68.6 130 Surr: DNOP 4.6 5.000 91.8 57.9 140

Qualifiers:

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

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408263

13-Aug-14

Client: Blagg Engineering

Project: GCU # 215

Sample ID LCS-14652

S	ample ID MB-14652	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
	·	, ,,	-

Client ID: **PBS** Batch ID: 14652 RunNo: 20463

SampType: LCS

Prep Date: 8/7/2014 Analysis Date: 8/8/2014 SeqNo: 595435 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0					-			

900 1000 90.2 120 Surr: BFB 80

Client ID: LCSS	ep Date: 8/7/2014 Analysis Date: 8/8/2014 nalyte Result PQL SPK val				tunNo: 2	0463				
Prep Date: 8/7/2014	Analysis D	ate: 8/	8/2014	S	seqNo: 5	95436	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	65.8	139			

TestCode: EPA Method 8015D: Gasoline Range

Surr: BFB		1000	1000		99.6	80	120
Sample ID	MB-14669	SampType: MBLK	Т	ΓestCo	de: EPA Meti	hod 8015D	: Gasoline Range
Client ID:	PBS	Batch ID: 14669		RunN	No: 20505		

Prep Date: 8/8/2014 Analysis Date: 8/11/2014 SeqNo: 596079 Units: %REC

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: BFB 1000

TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-14669 SampType: LCS Batch ID: 14669 Client ID: LCSS RunNo: 20505 Units: %REC Prep Date: 8/8/2014 Analysis Date: 8/11/2014 SeqNo: 596080 Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result

1000 Surr: BFB 1000 102 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Reporting Detection Limit

- P Sample pH greater than 2.

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Numbe	er: 1408263	·	RcptNo: 1	<u> </u>
Cheric Hamis.		,m		
Received by/date: AT SOUNTY				
Logged By: Lindsay Mangin 8/6/2014 7:35:00 AM		Smaky Hosop		
Completed By: Lindsay Mangin 8/6/2014 1:09:55 PM	(1	Strucky Harry 50		
Reviewed By: 08 107	\4			
Chain of Custody	, ,			
1. Custody seals intact on sample bottles?	Yes	No	Not Present 🗸	
2. Is Chain of Custody complete?	Yes 🗸	No :	Not Present	
3. How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗸	No	NA	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No 🔛	NA :	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗔		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗀		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗔		
9. Was preservative added to bottles?	Yes	No 🗸	NA	
10.VOA vials have zero headspace?	Yes	No :	No VOA Vials ✔	
11. Were any sample containers received broken?	Yes	No 🗸	# of preserved	
		111	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗔	for pH: (<2 or	>12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🔽	No		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No :	Checked by:	
Special Handling (if applicable)				•
16. Was client notified of all discrepancies with this order?	Yes 🗔	No ill	NA 🗹	
Person Notified: Date:				
By Whom: Via:	eMail	Phone Fax	in Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 3.6 Good Yes				

Hall Environmental Analysis Laboratory, Inc.

WO#: **1408322**

13-Aug-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-14668 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 14668 RunNo: 20492

Prep Date: **8/8/2014** Analysis Date: **8/8/2014** SeqNo: **595856** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-14668 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 14668 RunNo: 20492

Prep Date: **8/8/2014** Analysis Date: **8/8/2014** SeqNo: **595857** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408322**

13-Aug-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-14641 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **PBS** Batch ID: 14641 RunNo: 20418 Prep Date: 8/7/2014 Analysis Date: 8/7/2014 SeqNo: 594027 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 ND

Surr: DNOP 9.5 10.00 95.4 57.9 140

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID LCS-14641 SampType: LCS Client ID: LCSS Batch ID: 14641 RunNo: 20418 Prep Date: 8/7/2014 Analysis Date: 8/7/2014 SeqNo: 594028 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Diesel Range Organics (DRO)
 51
 10
 50.00
 0
 102
 68.6
 130

 Surr: DNOP
 4.6
 5.000
 91.8
 57.9
 140

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408322**

13-Aug-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-14652 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **14652** RunNo: **20463**

Prep Date: 8/7/2014 Analysis Date: 8/8/2014 SeqNo: 595435 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

 Surr: BFB
 900
 1000
 90.2
 80
 120

Sample ID LCS-14652 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 14652 RunNo: 20463

Prep Date: 8/7/2014 Analysis Date: 8/8/2014 SeqNo: 595436 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 0 120 65.8 139

Surr: BFB 1000 1000 99.6 80 120

Sample ID MB-14669 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 14669 RunNo: 20505

Prep Date: 8/8/2014 Analysis Date: 8/11/2014 SeqNo: 596079 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 930 1000 92.6 80 120

Sample ID LCS-14669 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 14669 RunNo: 20505

Prep Date: 8/8/2014 Analysis Date: 8/11/2014 SeqNo: 596080 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1000 1000 102 80 120

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1408322**

13-Aug-14

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-14652	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 14 0	652	F	RunNo: 2	0463				
Prep Date: 8/7/2014	Analysis D	ate: 8/	8/2014	5	SeqNo: 5	95792	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Sample ID LCS-14652	SampT	vpe: LC	:S	Tes	tCode: FI	PA Method	8021B: Volat	iles		

Sample ID LCS-14652	Sampi	ype. LC	.5	res	icode. El	PA Wethod	8021B: Voia	illes			
Client ID: LCSS	Batch	n ID: 14	652	R	RunNo: 2	0463					
Prep Date: 8/7/2014	Analysis D	oate: 8/	8/2014	S	SeqNo: 5	95793	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	100	80	120				
Toluene	0.98	0.050	1.000	0	98.1	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.1	0.10	3.000	0	102	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120				

Sample ID MB-14669	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 14	669	R	RunNo: 2	0505				
Prep Date: 8/8/2014	Analysis D	ate: 8/	/11/2014	S	SeqNo: 5	96101	Units: %RE	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Sample ID LCS-14669	SampT	ype: LC	cs	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 14	1669	R	RunNo: 2	0505				
Prep Date: 8/8/2014	Analysis D	ate: 8	/11/2014	S	SeqNo: 5	96102	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		1 000		110	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE $Albuquerque, NM\,87109$

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: BLAGG	Work Order Number:	1408322		RcptNo:	1
Received by/date:	08/07/14				
Logged By: Michelle Garcia	8/7/2014 7:45:00 AM		Michell Gan	ue	
Completed By: Michelle Garcia	8/7/2014 11:36:30 AM		Mitrell Gon Mitrell Gon	uiv	
Reviewed By:	- Deloriu		•		
Chain of Custody					
1. Custody seals intact on sample	bottles?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?	?	<u>Courier</u>			
Log In					
4. Was an attempt made to cool t	the samples?	Yes 🗸	No 🗌	na 🗆	
5. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) in proper container(s	s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for inc	dicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and	ONG) properly preserved?	Yes 🗹	No 🗆		
9. Was preservative added to bott	tles?	Yes 🗌	No 🗹	NA 🗆	
10.VOA vials have zero headspace	e?	Yes 🗌	No 🗆	No VOA Vials	
11. Were any sample containers re	eceived broken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle la	ahala?	Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepancies on chain of		165	140	·	r >12 unless noted)
13. Are matrices correctly identified	on Chain of Custody?	Yes 🗹	No 🗀	Adjusted?	_ _
14. Is it clear what analyses were re	equested?	Yes 🗹	No 🗌		
15. Were all holding times able to be (If no, notify customer for author)		Yes 🗹	No ∐	Checked by:	
Special Handling (if applica	<u>rble)</u>				•
16. Was client notified of all discrep	pancies with this order?	Yes 🗌	No 🗆	NA 🗹	1
Person Notified:	Date				
By Whom:	Via:	eMail 🗌	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
17. Additional remarks:					
18. <u>Cooler Information</u> Cooler No Temp °C Cooler No 1.0 Good		Seal Date	Signed By		



Analytical Report

Report Summary

Client: Blagg Engineering

Chain Of Custody Number: 17330

Samples Received: 8/14/2014 3:55:00PM

Job Number: 94034-0011 Work Order: P408058

Project Name/Location: GCU 215

Entire Report Reviewed By:

1/1/10

Date: 8/18/14

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 8/18/14 9:49 am

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Project Name: GCU 215
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported: 18-Aug-14 10:05

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
96' N41W @ 10'	P408058-01A	Soil	08/14/14	08/14/14	Glass Jar, 4 oz.



Analyte

Project Name: GCU 215
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reporting

Limit

Result

Reported: 18-Aug-14 10:05

RPD

Limit

Notes

%REC

Limits

RPD

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Units

Spike

Level

Source

Result

%REC

Blank (1433025-BLK1)				Prepared: 1-	4-Aug-14	Analyzed:	15-Aug-14	
Benzene	ND	0.05	mg/kg					
Toluene	ND	0.05	"					
Ethylbenzene	ND	0.05	"					
p,m-Xylene	ND	0.10	"					
o-Xylene	ND	0.05	"					
Total Xylenes	ND	0.05	"					
Total BTEX	ND	0.05	"					
Surrogate: 1,3-Dichlorobenzene	50.2		ug/L	50.0		100	50-150	
Surrogate: Bromochlorobenzene	50.0		"	50.0		100	50-150	
Duplicate (1433025-DUP1)	Sourc	e: P408041-	01	Prepared: 1-	4-Aug-14	Analyzed:	15-Aug-14	
Benzene	ND	0.05	mg/kg		ND			30
Toluene	ND	0.05	"		ND			30
Ethylbenzene	ND	0.05	"		ND			30
p,m-Xylene	ND	0.10	"		ND			30
o-Xylene	ND	0.05	"		ND			30
Surrogate: 1,3-Dichlorobenzene	50.9		ug/L	50.0		102	50-150	
Surrogate: Bromochlorobenzene	51.1		"	50.0		102	50-150	
Matrix Spike (1433025-MS1)	Sourc	e: P408041-	01	Prepared: 1-	4-Aug-14	Analyzed:	15-Aug-14	
Benzene	49.9		ug/L	50.0	ND	99.8	39-150	
Toluene	50.6		"	50.0	ND	101	46-148	
Ethylbenzene	48.7		"	50.0	ND	97.5	32-160	
p,m-Xylene	97.9		"	100	ND	97.9	46-148	
o-Xylene	48.9		"	50.0	ND	97.9	46-148	
Surrogate: 1,3-Dichlorobenzene	50.5		"	50.0		101	50-150	
Surrogate: Bromochlorobenzene	50.1		"	50.0		100	50-150	



Project Name: GCU 215
Project Number: 94034-0011

Project Manager:

Reporting

Jeff Blagg

%REC

Reported:

18-Aug-14 10:05

RPD

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Spike

Source

		· r · · · · · · · · · · · · ·		- F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1433022 - DRO Extraction EPA 355	50M									
Blank (1433022-BLK1)				Prepared &	Analyzed:	: 14-Aug-14	1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: Benzo[a]pyrene	16.9		"	20.0		84.5	50-200			
LCS (1433022-BS1)				Prepared &	Analyzed:	: 14-Aug-14	1			
Diesel Range Organics (C10-C28)	574	25.0	mg/kg	499		115	38-132			
Surrogate: Benzo[a]pyrene	19.9		"	20.0		99.5	50-200			
Matrix Spike (1433022-MS1)	Sourc	e: P408053-	01	Prepared:	14-Aug-14	Analyzed:	15-Aug-14			
Diesel Range Organics (C10-C28)	9110	349	mg/kg	499	9020	19.2	38-132			SPK1
Surrogate: Benzo[a]pyrene	16.3		"	20.0		81.9	50-200			
Matrix Spike Dup (1433022-MSD1)	Sourc	e: P408053-	01	Prepared:	14-Aug-14	Analyzed:	15-Aug-14			
Diesel Range Organics (C10-C28)	9220	349	mg/kg	498	9020	40.1	38-132	1.14	20	
Surrogate: Benzo[a]pyrene	16.6		"	19.9		83.5	50-200			



Project Name: Project Number:

Reporting

GCU 215

Spike

Source

Project Number: 94034-0011 Project Manager: Jeff Blagg

Reported: 18-Aug-14 10:05

RPD

%REC

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1433025 - Purge and Trap EPA 5030A										
Blank (1433025-BLK1)				Prepared: 1	4-Aug-14	Analyzed:	15-Aug-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1433025-DUP1)	Source	: P408041-	01	Prepared: 1	4-Aug-14	Analyzed:	15-Aug-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1433025-MS1)	Source	: P408041-	01	Prepared: 1	4-Aug-14	Analyzed:	15-Aug-14			
Gasoline Range Organics (C6-C10)	0.46		mg/L	0.450	ND	103	75-125			



Project Name: GCU 215 Project Number: Project Manager:

Reporting

94034-0011 Jeff Blagg

Spike

Source

Reported: 18-Aug-14 10:05

RPD

%REC

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1433029 - Anion Extraction EPA 300.0										
Blank (1433029-BLK1)				Prepared &	Analyzed:	15-Aug-14				
Chloride	ND	9.90	mg/kg							
LCS (1433029-BS1)				Prepared &	Analyzed:	15-Aug-14				
Chloride	495	9.99	mg/kg	500		99.1	90-110			
Matrix Spike (1433029-MS1)	Source	: P408057-	01	Prepared &	Analyzed:	15-Aug-14				
Chloride	505	9.94	mg/kg	497	ND	102	80-120			
Matrix Spike Dup (1433029-MSD1)	Source	: P408057-	01	Prepared &	Analyzed:	15-Aug-14				
Chloride	506	9.96	mg/kg	498	ND	102	80-120	0.301	20	



Blagg Engineering PO Box 87

Bloomfield NM, 87413

Project Name:

GCU 215

Project Number: 94034-0011 Project Manager: Jeff Blagg Reported:

18-Aug-14 10:05

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



Analytical Report

Report Summary

Client: Blagg Engineering

Chain Of Custody Number: 17334

Samples Received: 8/15/2014 12:21:00PM

Job Number: 94034-0011 Work Order: P408071

Project Name/Location: GCU 215

Entire Report Reviewed By:

Tin

Date: 8/26/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Project Name:
Project Number:
Project Manager:

GCU 215 94034-0011 Jeff Blagg

Reported: 26-Aug-14 09:58

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South 1 @ 10'	P408071-01A	Soil	08/14/14	08/15/14	Glass Jar, 4 oz.
South 2 @ 10'	P408071-02A	Soil	08/14/14	08/15/14	Glass Jar, 4 oz.
93' Due East @ 8'	P408071-03A	Soil	08/14/14	08/15/14	Glass Jar, 4 oz.
105' N 54 E @ 8'	P408071-04A	Soil	08/14/14	08/15/14	Glass Jar, 4 oz.
114' N 17 W @10'	P408071-05A	Soil	08/14/14	08/15/14	Glass Jar, 4 oz.



Analyte

Project Name: GCU 215 Project Number: 94034-0011

Project Manager:

Reporting

Limit

Result

Jeff Blagg

Spike

Level

Source

Result

%REC

Reported:

26-Aug-14 09:58

RPD

Limit

Notes

%REC

Limits

RPD

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Units

Blank (1434020-BLK1)				Prepared: 20)-Aug-14	Analyzed:	21-Aug-14	
Benzene	ND	0.05	mg/kg					
Toluene	ND	0.05	"					
Ethylbenzene	ND	0.05	"					
p,m-Xylene	ND	0.10	"					
o-Xylene	ND	0.05	"					
Total Xylenes	ND	0.05	"					
Total BTEX	ND	0.05	"					
Surrogate: 1,3-Dichlorobenzene	0.0505		"	0.0498		101	50-150	
Surrogate: Bromochlorobenzene	0.0501		"	0.0498		101	50-150	
Duplicate (1434020-DUP1)	Sourc	e: P408075-	01	Prepared: 20)-Aug-14	Analyzed:	22-Aug-14	
Benzene	ND	0.05	mg/kg		ND			30
Toluene	ND	0.05	"		ND			30
Ethylbenzene	ND	0.05	"		ND			30
p,m-Xylene	ND	0.10	"		ND			30
o-Xylene	ND	0.05	"		ND			30
Surrogate: 1,3-Dichlorobenzene	0.0568		"	0.0499		114	50-150	
Surrogate: Bromochlorobenzene	0.0578		"	0.0499		116	50-150	
Matrix Spike (1434020-MS1)	Sourc	e: P408075-	01	Prepared: 20)-Aug-14	Analyzed:	22-Aug-14	
Benzene	58.4		ug/L	50.0	ND	117	39-150	
Toluene	58.4		"	50.0	ND	117	46-148	
Ethylbenzene	58.1		"	50.0	ND	116	32-160	
p,m-Xylene	116		"	100	ND	116	46-148	
o-Xylene	57.4		"	50.0	ND	115	46-148	
Surrogate: 1,3-Dichlorobenzene	0.0541		mg/kg	0.0500		108	50-150	
Surrogate: Bromochlorobenzene	0.0521		,,	0.0500		104	50-150	

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

envirotech-inc.com



GCU 215 Project Name: 94034-0011 Project Number:

Project Manager:

Jeff Blagg

Reported: 26-Aug-14 09:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1434018 - DRO Extraction EPA 3550M										
Blank (1434018-BLK1)				Prepared: 2	20-Aug-14	Analyzed:	21-Aug-14			
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: Benzo[a]pyrene	19.7		"	19.9		99.0	50-200			
LCS (1434018-BS1)				Prepared: 2	20-Aug-14	Analyzed:	21-Aug-14			
Diesel Range Organics (C10-C28)	514	25.0	mg/kg	499		103	38-132			
Surrogate: Benzo[a]pyrene	20.2		"	20.0		101	50-200			
Matrix Spike (1434018-MS1)	Sour	ce: P408075-	01	Prepared: 2	20-Aug-14	Analyzed:	21-Aug-14			
Diesel Range Organics (C10-C28)	474	29.9	mg/kg	498	276	39.7	38-132			
Surrogate: Benzo[a]pyrene	18.3		"	19.9		91.7	50-200			
Matrix Spike Dup (1434018-MSD1)	Sour	ce: P408075-	01	Prepared: 2	20-Aug-14	Analyzed:	21-Aug-14			
Diesel Range Organics (C10-C28)	508	30.0	mg/kg	500	276	46.4	38-132	6.89	20	·
Surrogate: Benzo[a]pyrene	19.6		"	20.0		98.1	50-200			



Project Name: Project Number: Project Manager:

Reporting

GCU 215

94034-0011 Jeff Blagg

Spike

Source

Reported:

26-Aug-14 09:58

RPD

%REC

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1434020 - Purge and Trap EPA 5030A										
Blank (1434020-BLK1)				Prepared: 2	0-Aug-14	Analyzed:	21-Aug-14			
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg							
Duplicate (1434020-DUP1)	Source	e: P408075-	01	Prepared: 2	0-Aug-14	Analyzed:	22-Aug-14			
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg		ND				30	
Matrix Spike (1434020-MS1)	Source	e: P408075-	01	Prepared: 2	0-Aug-14	Analyzed:	22-Aug-14			
Gasoline Range Organics (C6-C10)	0.43		mg/L	0.450	ND	96.4	75-125			



Project Name: GCU 215
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reporting

Reported: 26-Aug-14 09:58

RPD

%REC

DDD

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1434012 - Anion Extraction EPA 300.0										
Blank (1434012-BLK1)				Prepared &	Analyzed:	: 19-Aug-14				
Chloride	ND	9.99	mg/kg							
LCS (1434012-BS1)				Prepared &	Analyzed:	: 19-Aug-14				
Chloride	479	9.89	mg/kg	495		96.9	90-110			
Matrix Spike (1434012-MS1)	Source	: P408076-	01	Prepared &	Analyzed:	: 19-Aug-14				
Chloride	487	9.91	mg/kg	496	ND	98.2	80-120			
Matrix Spike Dup (1434012-MSD1)	Source	: P408076-	01	Prepared &	Analyzed:	: 19-Aug-14				
Chloride	493	9.98	mg/kg	499	ND	98.8	80-120	1.32	20	



Blagg Engineering

Project Name:

GCU 215

PO Box 87

Project Number: Project Manager: 94034-0011

Reported: 26-Aug-14 09:58

Bloomfield NM, 87413

Jeff Blagg

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

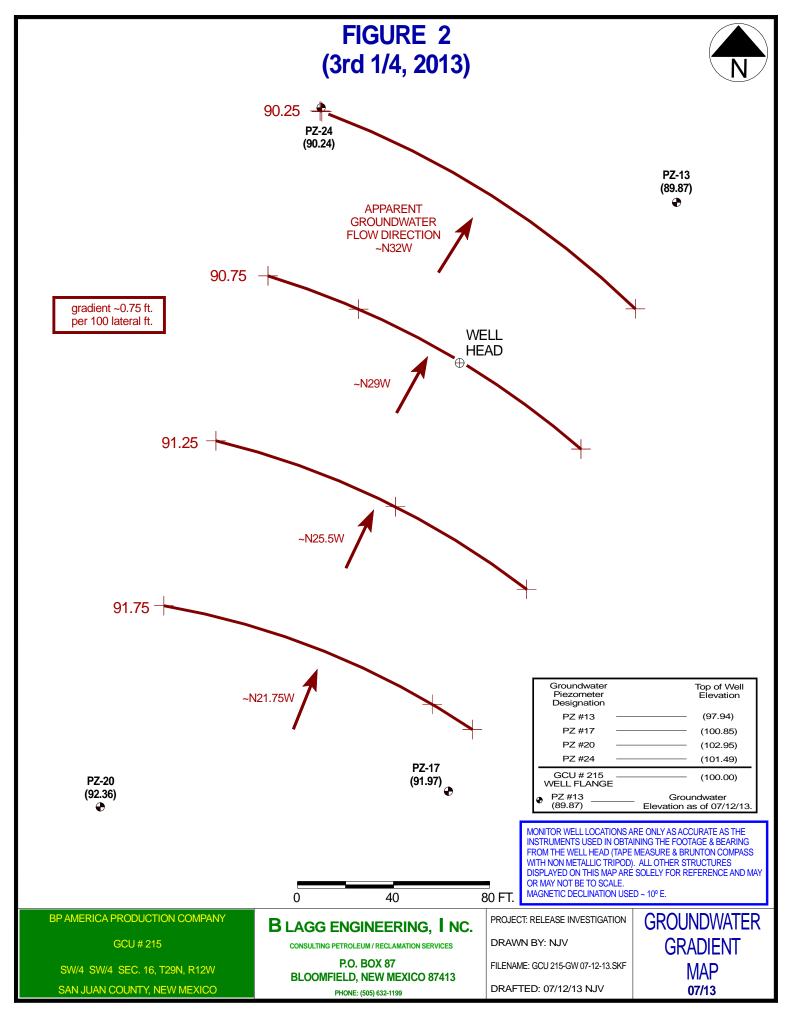
RPD Relative Percent Difference

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laboratory@envirotech-inc.com

GROUNDWATER

DATA



BP AMERICA PRODUCTION COMPANY

GCU # 215 - (Release beneath 95 BGT)

Unit Letter M, Section 16, T29N, R12W - API Number: 30-045-11622

Field & Laboratory Data from Groundwater Monitor Wells

		FIELD PARAMETERS								
SAMPLE ID	SAMPLE DATE	SAMPLE TIME	DEPTH TO	TOTAL MW	рН	Conductivity	Temperature	Volume		
			WATER	LENGTH				Purged		
			(feet)	(feet)		(µmhos/cm)	(°Celcius)	(gallons)		
MW # 1 (up gradient)	05/20/15	0825	10.47	18.00	7.07	2,400	12.3	3.75		
п	09/26/17	1310	11.43		7.19	2,900	18.4	3.50		
MW # 2 (source area)	01/28/15	1415	10.21	18.60	7.65	NA	14.9	3.25		
n	09/26/17	1700	10.99		6.90	2,500	18.9	3.75		
MW # 3 (source area)	01/28/15	1245	9.34	20.00	7.98	NA	15.2	4.00		
п	09/26/17	1605	10.10		6.97	1,900	17.9	4.75		
MW # 4 (source area)	01/28/15	1110	8.88	18.75	8.29	NA	14.2	3.25		
п	09/26/17	1510	9.49		7.29	2,300	18.9	4.50		
MW # 5 (down gradient)	02/12/15	1245	11.47	17.60	8.11	2,500	15.6	3.00		
11	09/26/17	1415	12.21		7.03	2,100	18.8	2.75		
LP AGT PRODUCED WATER	02/12/15	1150	NA	NA	NA	NA	NA	NA		
	-	-	NMWOC	STANDARDS -	6 - 9			-		

		LABORATORY PARAMETERS									
SAMPLE ID	Fluoride	Chloride	Sulfate	Nitrate- Nitrite as N	TDS	Benzene	Toluene	Ethyl - benzene	Total Xylenes		
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(μg/L)	(μg/L)	belizelle (μg/L)	(μg/L)		
MW # 1 (up gradient)	1.9	61	960	ND	1,760	ND	ND	ND	ND		
n n	2.5	83	1300	ND	3,090	ND	ND	ND	ND		
MW # 2 (source area)	1.5	120	1400	ND	2,950	ND	ND	7.9	2.8		
"	0.86	85	1400	ND	3,100	ND	ND	ND	ND		
MW # 3 (source area)	1.3	65	1000	ND	1,990	ND	ND	ND	ND		
II .	0.84	62	860	ND	1,820	ND	ND	1.5	ND		
MW # 4 (source area)	2.0	61	640	ND	1,760	13	ND	23	10		
II .	1.3	64	960	ND	2,010	ND	ND	ND	ND		
MW # 5 (down gradient)	3.5	87	650	ND	1,860	3.1	ND	4.0	ND		
п	2.1	84	880	ND	1,980	ND	ND	ND	ND		
LP AGT PRODUCED WATER	4.8	NA	ND	ND	11,800	NA	NA	NA	NA		
NMWQCC STANDARDS -	1.6	250	600	10	1,000	10	750	750	620		

Notes:

Groundwater standards are applied to values assigned in blue highlighted boxes or confirmed background levels, which ever is higher. Depth to water measured from casing top of monitor well.

MW - Monitor well

µmhos/cm - Micromhos per centimeter

TDS - Total dissolved solids

mg/L - Milligram per Liter

μg/L - Microgram per liter

ND - Not detected at Reporting Limit

NMWQCC - New Mexico Water Quality Control Commission

BP AMERICA PRODUCTION COMPANY

GROUNDWATER FIELD DATA & LAB BTEX RESULTS

GCU # 215 - 95 BGT (Tank ID: A) UNIT M, SEC. 16, T29N, R12W REVISED DATE: October 11,2017 Submitted by Blagg Engineering, Inc.

1								BTEX US EPA METHOD 8021B or 8260B			8260B
SAMPLE	WELL NAME	DEPTH TO	WELL	TDS	CONDUCT.	рН	FREE PHASE	BENZENE	TOLUENE	ETHYL	TOTAL
DATE	/ NUMBER	WATER	DEPTH				PRODUCT			BENZENE	XYLENES
		(ft)	(ft)	(mg/L)	(umhos)		(ft)	(ppb)	(ppb)	(ppb)	(ppb)
05/20/15	MW #1	10.47	18.00	1,760	2,400	7.07		ND	ND	ND	ND
09/26/17	10100 #1	11.43	10.00	3,090	2,900	7.19		ND ND	ND	ND	ND
01/28/15	MW #2	10.21	18.60	2,950	-	7.65		ND	ND	7.9	2.8
09/26/17	10100 112	10.99	10.00	3,100	2,500	6.90		ND	ND	ND	ND
01/28/15	MW #3	9.34	20.00	1,990	-	7.98		ND	ND	ND	ND
09/26/17	10100 113	10.10	20.00	1,820	1,900	6.97		ND	ND	1.5	ND
01/28/15	MW #4	8.88	18.75	1,760	-	8.29		13	ND	23	10
05/20/15		8.53			2,300	6.91		6.1	ND	26	3.0
08/24/15		9.25			2,200	7.23		1.2	ND	8.6	ND
12/02/15		9.03			2,300	7.08		ND	ND	ND	ND
02/23/16		8.75			2,300	6.84		ND	ND	1.1	2.3
05/25/16		6.80			2,400	7.41		ND	ND	ND	ND
08/18/16		9.31			2,200	7.25		ND	ND	ND	ND
12/06/16		9.03			2,300	-		ND	ND	ND	ND
02/23/17		8.73			2,400	7.43		ND	ND	ND	ND
09/26/17		9.49		2,010	2,300	7.29		ND	ND	ND	ND
02/12/15	MW #5	11.47	17.60	1,860	2,500	8.11		3.1	ND	4.0	ND
12/02/15		11.75			2,500	7.00		ND	ND	1.3	ND
02/23/16		11.51			2,400	6.73		ND	ND	ND	ND
05/25/16		11.51			2,300	7.25		ND	ND	ND	ND
08/18/16		12.04			2,000	7.13		ND	ND	ND	ND
12/06/16		11.80			2,200	-		ND	ND	ND	ND
02/23/17		11.50			2,300	7.28		ND	ND	ND	ND
06/27/17		12.51			2,400	7.24		ND	ND	ND	5.3
09/26/17		12.21		1,980	2,100	7.03		ND	ND	ND	ND
	NMWQCC GROUNDWATER STANDARDS					TANDARDS	10	750	750	620	

NOTES:

- 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.
- 2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED.
- 3) ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10).
- 4) NMWQCC INDICATES NEW MEXICO WATER QUALITY CONTROL COMMISSION.

MONITOR WELL

BORE HOLE LOGS

MW #1 through MW #5

P.O. BOX 87 BLOOMFIELD, NM 87413

MW # 1

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

29

LOCATION NAME:

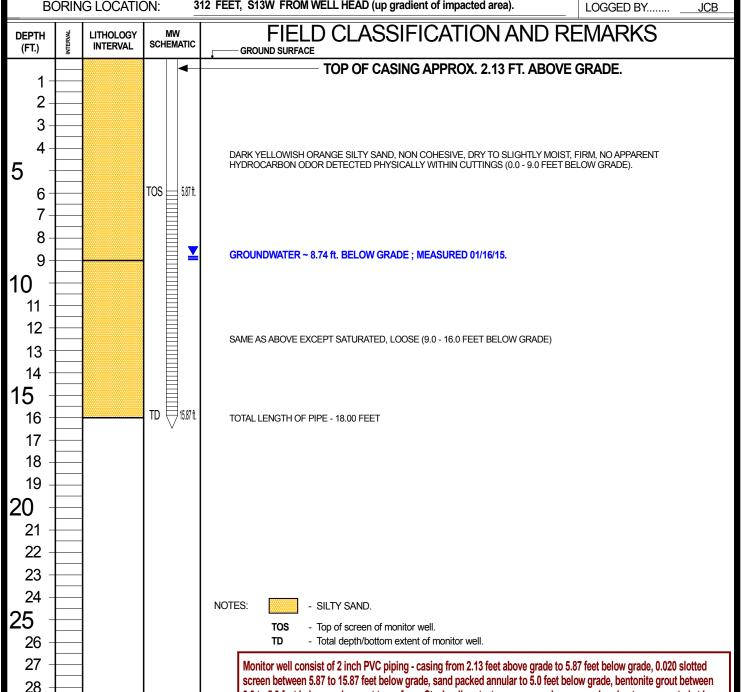
CONTRACTOR: **EQUIPMENT USED:** BP AMERICA PRODUCTION CO.

API #: 3004511622 UNIT M, SEC. 16, T29N, R12W GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

BORING LOCATION: 312 FEET, S13W FROM WELL HEAD (up gradient of impacted area). BORING #..... BH - 1 MW #..... __ PAGE #..... _ DATE STARTED 10/20/14 DATE FINISHED 10/20/14 OPERATOR...... ΚP



and secured hinged lid with padlock.

3.0 to 5.0 feet below grade, grout to surface. Steel well protector encompassing exposed casing top, concreted at base

DRAWING: GCU 215 MW-1 2015-10-20.SKF DATE: 10/30/15

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

MW # 2

BORE / TEST HOLE REPORT

CLIENT:

28

29

LOCATION NAME:

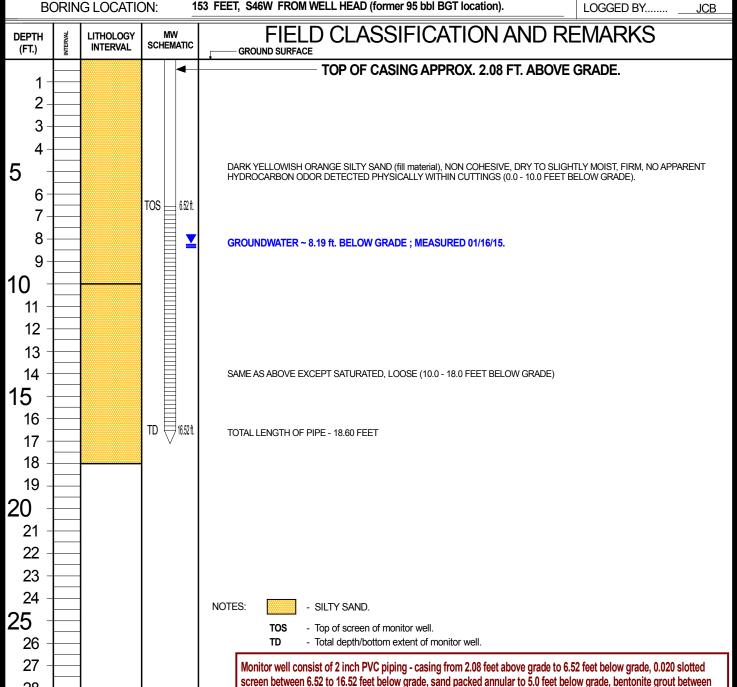
CONTRACTOR: **EQUIPMENT USED:** BP AMERICA PRODUCTION CO

GCU # 215 API #: 3004511622 UNIT M, SEC. 16, T29N, R12W

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

BORING LOCATION: 153 FEET, S46W FROM WELL HEAD (former 95 bbl BGT location). BORING #..... <u>BH - 2</u> MW #..... PAGE #..... _ DATE STARTED 10/20/14 DATE FINISHED 10/20/14 OPERATOR..... ΚP



and secured hinged lid with padlock.

3.0 to 5.0 feet below grade, grout to surface. Steel well protector encompassing exposed casing top, concreted at base

DRAWING: GCU 215 MW-2 2015-10-20.SKF DATE: 10/30/15

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

MW # 3

BORE / TEST HOLE REPORT

CLIENT:

29

LOCATION NAME:

CONTRACTOR:

EQUIPMENT USED: BORING LOCATION: BP AMERICA PRODUCTION CO

API #: 3004511622 UNIT M, SEC. 16, T29N, R12W GCU # 215

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

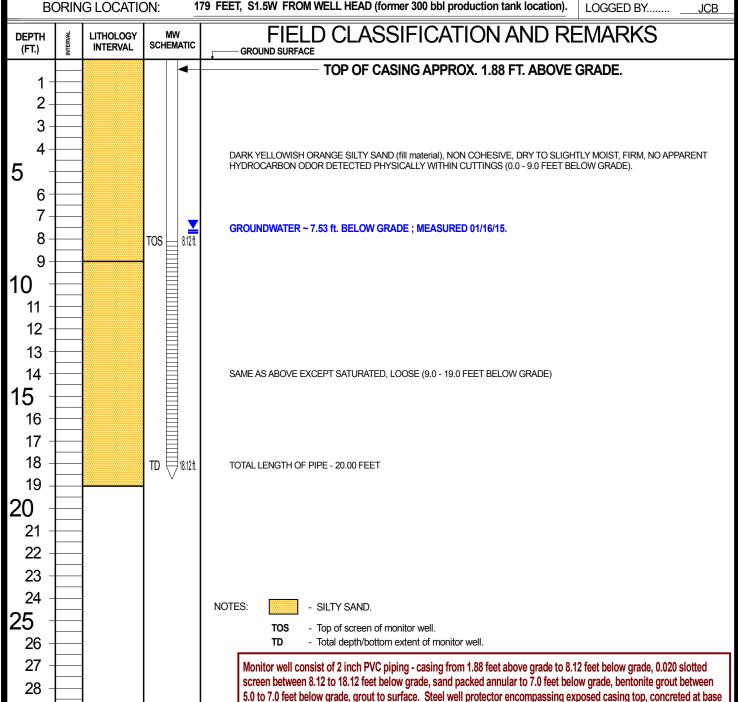
MOBILE DRILL RIG

179 FEET, S1.5W FROM WELL HEAD (former 300 bbl production tank location).

BORING #..... <u>BH - 3</u> MW #..... PAGE #..... _ 3 DATE STARTED 10/20/14 DATE FINISHED 10/20/14

ΚP

OPERATOR.....



and secured hinged lid with padlock.

DRAWING: GCU 215 MW-3 2015-10-20.SKF DATE: 10/30/15

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

MW # 4

BORING #..... <u>BH - 4</u> MW #..... PAGE #..... _

DATE STARTED

DATE FINISHED

OPERATOR.....

LOGGED BY.....

4

10/21/14

10/21/14

ΚP

JCB

BORE / TEST HOLE REPORT

CLIENT:

DEPTH

(FT.)

1 2

6

7 8 9

> 14 5 16

> > 17 18 19

26

27

28

29

GCU # 215

MW

SCHEMATIC

TOS

6.50 ft.

BP AMERICA PRODUCTION CO

API #: 3004511622

BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

UNIT M, SEC. 16, T29N, R12W

LOCATION NAME: CONTRACTOR: **EQUIPMENT USED:**

MOBILE DRILL RIG

BORING LOCATION:

LITHOLOGY INTERVAL

127 FEET, N12.25EW FROM WELL HEAD (down gradient end of impacted area).

FIELD CLASSIFICATION AND REMARKS GROUND SURFACE

HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 9.0 FEET BELOW GRADE).

TOP OF CASING APPROX, 2.25 FT. ABOVE GRADE.



GROUNDWATER ~ 9.44 ft. BELOW GRADE; MEASURED 01/16/15.

SAME AS ABOVE EXCEPT SATURATED, LOOSE (9.0 - 17.0 FEET BELOW GRADE)

TOTAL LENGTH OF PIPE - 18.75 FEET

NOTES:

- SILTY SAND.

TOS

- Top of screen of monitor well.

- Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.25 feet above grade to 6.50 feet below grade, 0.020 slotted screen between 6.50 to 16.50 feet below grade, sand packed annular to 5.0 feet below grade, bentonite grout between 3.0 to 5.0 feet below grade, grout to surface. Steel well protector encompassing exposed casing top, concreted at base and secured hinged lid with padlock.

DRAWING: GCU 215 MW-4 2015-10-21.SKF DATE: 10/30/15

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

MW # 5

BORE / TEST HOLE REPORT

CLIENT:

29

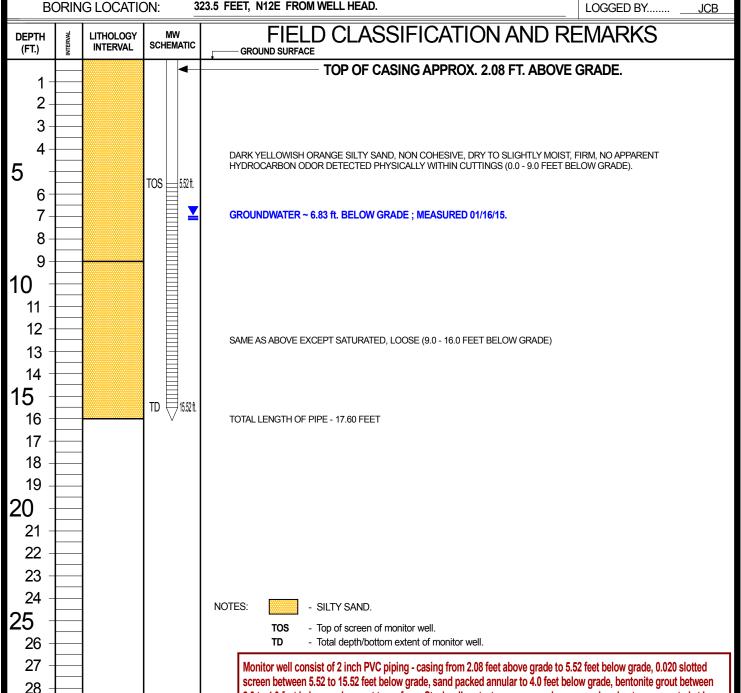
LOCATION NAME:

CONTRACTOR: **EQUIPMENT USED:** BP AMERICA PRODUCTION CO.

API #: 3004511622 GCU # 215 UNIT M, SEC. 16, T29N, R12W BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.

MOBILE DRILL RIG

BORING LOCATION: 323.5 FEET, N12E FROM WELL HEAD. BORING #..... BH - 5 MW #..... PAGE #..... 5 DATE STARTED 10/21/14 DATE FINISHED 10/21/14 OPERATOR..... ΚP



and secured hinged lid with padlock.

2.0 to 4.0 feet below grade, grout to surface. Steel well protector encompassing exposed casing top, concreted at base

DRAWING: GCU 215 MW-5 2015-10-21.SKF DATE: 10/30/15

MONITOR WELL

FIELD LOGS

CLIENT :	BP AME	RICA PR	OD. CO.		CHAIN-OF-C	USTODY#:		N/A		
	- 95 BGT (T EC. 16, T29N	,			LABORATOR	RY (S) USED	:	HALL ENVIF	RONMENTAL	
Date : Filename :	January 28, GCU 215 m		01-28.xls		[/ SAMPLER : MANAGER :		J V	
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
1 2 3 4	- - -	- - -	- 10.21 9.34 8.88	18.00 18.60 20.00 18.75	- 1415 1245 1110	- 7.65 7.98 8.29	- - -	- 14.9 15.2 14.2	3.25 4.00 3.25	
5 17.60										
	(i.e. 2" MW	, ,	ee (3) wellbo		r = (2/12) ft.	h = 1 ft.) 2.00" well d	iameter =	0.49 gal./ft.	of water.	
			if not standa		_					
All monitor wells initially developed on 01/16/15 to evaluate purging, recovery rate, & for sediment removal. Excellent recovery in all monitor wells except MW # 2 (fair/good). Collected samples from MW #2, #3, #4 for BTEX & general chemistry parameters. Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with										
brass adjusta	able flow valve	attachment a	added near sar	mpling end of					=	
	ments referend			5 - 179 II., S	1.500, 10100 #4 -	127 II., IN 12.3	5VV, IVIVV #5 - 3	523.3 II., IN 12E	- -	
Top of casi	ng MW # 1 ~ 2	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1.8	38 ft., MW # 4	~ 2.25 ft., MV	N # 5 ~ 2.08 ff	t. above grade) .	

on-site	9:45 AM	temp	40 F
off-site	2:45 PM	temp	54 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	E - W

CLIENT:	BP AME	RICA PR	OD. CO.		CHAIN-OF-C	USTODY#:		N / A		
	- 95 BGT (T EC. 16, T29N	,			LABORATOR	RY (S) USED	:	HALL ENVIF	RONMENTAL	
Date : Filename :	February 12 GCU 215 m	2, 2015 lw log 2015-0)2-12.xls		[/ SAMPLER : MANAGER :		N J V J C B	
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
1 2	-	-	-	18.00 18.60	-	-	-	-	-	
3 4	-	-	-	20.00 18.75	-	-	-	-	-	
5 - 11.47 17.60 1245 8.11 2,500 15.6 3.00 INSTRUMENT CALIBRATIONS = 4.01/7.00/10.00 - 02/12/15 0900 NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).										
	(i.e. 2" MW	r = (1/12) ft		i.e. 4" MW	r = (2/12) ft.	•		0.49 gal./ft.	,	
Comments	or note we	ll diameter i	f not standa	rd 2".	_					
recovery in Nabove-grade	//W # 5. Collectank for gene	ected samples	from MW #5 fonly. Purged	or BTEX & g	, recovery rate eneral chemist 2 inch subme near sampling	ry parameters	s, also from lov cal pump, new	w profile		
Top of casin	ng MW # 1 ~ :	2.13 ft., MW #	# 2 ~ 2.08 ft.,	MW # 3 ~ 1.8	38 ft., MW # 4	~ 2.25 ft., M\	N # 5 ~ 2.08 ft	t. above grade	e	

on-site	11:35 AM	temp	47 F
off-site	1:00 PM	temp	51 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	NNW

CLIENT:	BP AME	RICA PR	OD. CO.		CHAIN-OF-C	USTODY#:		N / A		
	- 95 BGT (T C. 16, T29N	,			LABORATOR	RY (S) USED	:	HALL ENVIR	RONMENTAL	
Date : Filename :	May 20, 201 GCU 215 m	15 w log 2015-0	05-20.xls		С		/ SAMPLER : MANAGER :		J V C B	
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
1 2	-	-	10.47	18.00	0825	7.07	2,400	12.3	3.75	
3 4 5		-	- 8.53 -	20.00 18.75 17.60	- 0920 -	- 6.91 -	2,300 -	- 13.2 -	5.00	
NOTES:	Volume of	water purge	INSTRUMENT DATE & TIME ed from well	E =	ONS =	4.01/7.00/10.00 05/11/15 pi X r2 X h	- 0600 X 7.48 gal./ft	3) X 3 (wellb	ores).	
	-	r = (1/12) ft	. h = 1 ft.) ee (3) wellbo	`	r = (2/12) ft.	h = 1 ft.) 2.00" well d	iameter =	0.49 gal./ft.	of water.	
			f not standa		_					
collected san	nple from MW	#4 for BTEX	only. Purged	wells using 2	for general che 2 inch submers d near sampling	ible electrical	pump, new/cle			
Top of casir	ng MW # 1 ~ 2	2.13 ft., MW #	# 2 ~ 2.08 ft.,	MW # 3 ~ 1.8	38 ft., MW # 4	~ 2.25 ft., M\	N # 5 ~ 2.08 fl	t. above grade	9.	

on-site	7:30 AM	temp	47 F
off-site	9:30 AM	temp	56 F
sky cond.		Sunny	
wind speed	5 - 10	direct.	E - ESE

CLIENT : BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
GCU # 215 - 95 BGT (Tank ID: A) UNIT M, SEC. 16, T29N, R12W			LABORATORY (S) USED:			HALL ENVIRONMENTAL			
Date : Filename :	August 24, 2015 GCU 215 mw log 2015-08-24.xls					DEVELOPER / SAMPLER PROJECT MANAGER			
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1 2	-	-	- 10.73	18.00 18.60	-	-	-	-	-
3 4	-	-	9.83 9.25	20.00	- 0805	7.23	2,200	16.6	3.75
5	-		INSTRUMENT DATE & TIMI	≣ =		4.01/7.00/10.00 08/19/15	- 0600	-	
NOTES:	(i.e. 2" MW	r = (1/12) ft		(i.e. 4" MW	ampling; V = r = (2/12) ft.			0.49 gal./ft.	·
Comments	or note wel	ll diameter i	f not standa	rd 2".	_				
Excellent recovery in MW #4. Collected sample from MW #4 for BTEX only. Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.									
Top of casi	Top of casing MW # 1 ~ 2.13 ft., MW # 2 ~ 2.08 ft., MW # 3 ~ 1.88 ft., MW # 4 ~ 2.25 ft., MW # 5 ~ 2.08 ft. above grade.								

on-site	7:15 AM	temp	59 F
off-site	8:15 AM	temp	64 F
sky cond.		Sunny	
wind speed	0 - 10	direct.	ENE - ESE

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
GCU # 215 - 95 BGT (Tank ID: A) UNIT M, SEC. 16, T29N, R12W				LABORATORY (S) USED :				HALL ENVIE	RONMENTAL
Date : Filename :	December 2, 2015 : GCU 215 mw log 2015-12-02.xls				DEVELOPER / SAMPLER : PROJECT MANAGER :				
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.70	_	_	18.00	<u> </u>			<u> </u>	_
2	102.37	91.91	10.46	18.60	-	_	_	_	_
3	101.51	92.00	9.51	20.00	-	-	-	-	-
4	98.52	89.49	9.03	18.75	1055	7.08	2,300	14.7	4.50
5	99.23	87.48	11.75	17.60	1150	7.00	2,500	15.2	2.75
NOTES: $\frac{\text{INSTRUMENT CALIBRATIONS}}{\text{DATE & TIME}} = \frac{4.01/7.00/10.00}{12/02/15} \frac{-1}{0600}$ NOTES: $\frac{\text{Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).}}{\text{(i.e. 2" MW } r = (1/12) \text{ ft. h = 1 ft.)}}$									bores).
	Ideally a minimum of three (3) wellbore volumes: 2.00" well diameter = 0.49 gal./ft. of water.								of water.
Comments or note well diameter if not standard 2 ".									
Excellent recovery in MW #4 & #5. Collected sample from MW #4 & #5 for BTEX only. Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.									
electrical pump, new/clear virigit tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.									
Top of casi	ng MW#1~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1	.88 ft., MW # 4	~ 2.25 ft., M	1W # 5 ~ 2.08	ft. above grad	de.

on-site	10:00 AM	temp	27 F
off-site	12:00 PM	temp	34 F
sky cond.		Sunny	
wind speed	0 - 5	direct.	E

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
GCU # 215 - 95 BGT (Tank ID: A) UNIT M, SEC. 16, T29N, R12W				LABORATORY (S) USED :				HALL ENVIRONMENTAL	
Date : Filename :	May 25, 2016 : GCU 215 mw log 2016-05-25.xls				DEVELOPER / SAMPLER : PROJECT MANAGER :				
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.70	-	-	18.00	-	-	-	-	-
2	102.37	92.12	10.25	18.60	-	-	-	-	-
3	101.51	92.20	9.31	20.00	-	-	-	-	-
4	98.52	91.72	6.80	18.75	1130	7.41	2,400	15.7	5.00
5	99.23	87.72	11.51	17.60	1045	7.25	2,300	15.2	3.00
NOTES: $\frac{\text{INSTRUMENT CALIBRATIONS}}{\text{DATE & TIME}} = \frac{4.01/7.00/10.00}{05/23/16} \frac{-}{0600}$ NOTES: $\frac{\text{Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).}}{\text{(i.e. 2" MW } r = (1/12) \text{ ft. h = 1 ft.)}}$									
	Ideally a mi	nimum of thr	ee (3) wellbo	re volumes	:	2.00" well d	iameter =	0.49 gal./ft.	of water.
Comments or note well diameter if not standard 2 ".									
					& #5 for BTEX				
electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.									
Top of casi	ng MW # 1 ~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1	.88 ft., MW # 4	~ 2.25 ft., N	1W # 5 ~ 2.08	ft. above grad	de.

10:00 AM	temp	61 F
11:50 AM	temp	67 F
	Sunny	
0 - 10	direct.	SSE
	11:50 AM	Sunny

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
	- 95 BGT (1 EC. 16, T29N			LABORATORY (S) USED:				HALL ENVIR	RONMENTAL
Date : Filename :	August 18, 2	2016 nw log 2016-0	08-18.xls		DEVELOPER / SAMPLER : PROJECT MANAGER :				
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.70	l <u>-</u>	-	18.00	_	_	l <u>-</u>		_
2	103.70	91.57	10.80	18.60	-		-	-	-
3	101.51	91.61	9.90	20.00	-	_	-	-	-
4	98.52	89.21	9.31	18.75	1120	7.25	2,200	18.7	7.75
5	99.23	87.19	12.04	17.60	1020	7.13	2,000	17.4	2.75
NOTES :	(i.e. 2" MW	r = (1/12) ft	h = 1 ft.)	prior to s	eampling; V = r = (2/12) ft	. h = 1 ft.)	-	,	·
	or note we	ll diameter	ee (3) wellbo	ard 2".	:: - & #5 for BTEX	2.00" well d		0.49 gal./ft. 2 inch subme	
electrical pur	mp, new/clear	vinyl tubing,	and with brass	s adjustable	flow valve attac	chment added	d near samplir	ng end of tubir	ng .
Top of casi	ng MW # 1 ~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1	.88 ft., MW # 4	l ~ 2.25 ft., №	1W # 5 ~ 2.08	ft. above grad	de.

on-site	11:00 AM	temp	70 F
off-site	1:00 PM	temp	78 F
sky cond.		Mostly cloudy	У
wind speed	5 - 15	direct.	SE - W

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A		
	- 95 BGT (1 EC. 16, T29N				LABORATORY (S) USED:				HALL ENVIRONMENTAL	
	December 6				Г		/ CAMDLED .	N	JV	
Date :		•	10.00 v/s		L		/ SAMPLER :		C B	
Filename :	GCU 215 III	w log 2016-	12-06.XIS			PROJECT	MANAGER :	<u> </u>	<u>, D</u>	
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME	
#	ELEV.	ELEV.	WATER	DEPTH	TIME	•	(umhos)	(celcius)	PURGED	
	(ft)	(ft)	(ft)	(ft)					(gal.)	
L	,	. , ,			<u>.</u>		J.		, ,	
1	103.70	-	-	18.00	-	-	-	-	-	
2	102.37	91.92	10.45	18.60	-	-	-	-	-	
3	101.51	92.00	9.51	20.00	-	-	-	-	-	
4	98.52	89.49	9.03	18.75	1225	-	2,300	15.4	4.75	
5	99.23	87.43	11.80	17.60	1120	-	2,200	15.0	2.75	
			INSTRUMENT	CALIBRATIO	ONS =	4.01/7.00/10.00	-			
			DATE & TIM	E =		12/06/16	0600			
					_			_		
NOTES:					ampling; V =		X 7.48 gal./	ft3) X 3 (well	bores).	
	(i.e. 2" MW	r = (1/12) ft	. h = 1 ft.)	(i.e. 4" MW	r = (2/12) ft	. h = 1 ft.)				
	Ideally a mi	nimum of thr	ee (3) wellbo	re volumes	:	2.00" well d	iameter =	0.49 gal./ft.	of water.	
C		II diamatan	if not stand	- "-d O "						
Comments	or note we	u diameter	if not standa	ard Z .	_					
Excellent red	overy in MW:	#4 & #5 Colle	ected sample t	from MW #4	& #5 for BTEX	only Purae	d wells using	2 inch suhme	rsihle	
					flow valve attac					
		<u>y</u> <u>g</u> ,		,					<u>.9</u>	
Top of casi	ng MW # 1 ~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1.	.88 ft., MW # 4	~ 2.25 ft., N	IW # 5 ~ 2.08	ft. above grad	de.	

on-site	10:30 AM	temp	36 F
off-site	12:30 PM	temp	42 F
sky cond.		Mostly cloudy	У
wind speed	0 - 10	direct.	ENE - E

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
	- 95 BGT (⁷ EC. 16, T29N	,			LABORATOF	:	HALL ENVIE	RONMENTAL	
Date : Filename :	February 23 GCU 215 m	3, 2017 nw log 2017-	02-23.xls		D		/ SAMPLER : MANAGER :		
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.70	_	I _ I	18.00			_	_	_
2	102.37	92.19	10.18	18.60	-	_	_	_	_
3	101.51	92.26	9.25	20.00	-	-	-	-	-
4	98.52	89.79	8.73	18.75	1335	7.43	2,400	12.3	5.00
5	99.23	87.73	11.50	17.60	1240	7.28	2,300	12.5	3.00
NOTES:	NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)								
		, ,	ree (3) wellbo	`		2.00" well d	iameter =	0.49 gal./ft.	of water.
			if not standa		_				
					& #5 for BTEX				
electrical pur	mp, new/clear	vinyl tubing ,	and with brass	s adjustable	flow valve attac	chment added	t near samplir	ng end of tubir	ng .
-									
Top of casi	ng MW # 1 ~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1	.88 ft., MW # 4	~ 2.25 ft., N	IW # 5 ~ 2.08	ft. above grad	de.

on-site	11:45 AM	temp	39 F
off-site	1:45 PM	temp	42 F
sky cond.		Mostly cloudy	y
wind speed	15 - 25	direct.	West

CLIENT: BP AMERICA PROD. CO.				CHAIN-OF-CUSTODY #:				N / A	
	- 95 BGT (1 EC. 16, T29N				LABORATOF):	HALL ENVIF	RONMENTAL	
Date : Filename :	June 27, 20 GCU 215 m	17 w log 2017-0	06-27.xls		С		/ SAMPLER : MANAGER :		J V C B
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	103.70	_	_	18.00	_	_		_	_
2	102.37	_	_	18.60	-	-	_	_	_
3	101.51	-	-	20.00	-	-	-	-	-
4	98.52	-	-	18.75	-	•	-	-	-
5	99.23		12.51	17.60	1120	7.24	2,400	16.3	2.50
NOTES:	(i.e. 2" MW	r = (1/12) ft	ed from well	prior to s	BRATIONS = $r = 0$ TE & TIME = $r = 0$ TE ampling; $r = 0$ TE $r $		-	ft3) X 3 (well 0.49 gal./ft.	
	or note we	ll diameter	if not standa	ard 2".	- TEX only. Pu			J	<u> </u>
					flow valve attac				ng .
	•			į			·		
Ton of casi	na MW/#1~	2 13 ft M\\\/	# 2 ~ 2 NR ft	M\N # 3 ~ 1	.88 ft., MW # 4	L ~ 2 25 ft M	1\W # 5 ~ 2 ∩¤	ft ahove grad	<u></u>
10p of casil	III IVIV II I	Z. 10 It., IVIVV 1	, Z Z.00 It.,	IVIVV # O 1	.00 It., IVIVV # 4	£.20 it., iv	1VV # 0 2.00	it. above grad	

on-site	10:23 AM	temp	78 F
off-site	11:30 AM	temp	83 F
sky cond.		Sunny	
wind speed	0 - 5	direct.	ESE

CLIENT :	BP AME	RICA PR	OD. CO.	CHAIN-OF-CUSTODY #:				N / A	
	5 - 95 BGT ([*] EC. 16, T29N	,			LABORATOR	HALL ENVIRONMENTAL			
Date :	ate: September 26, 2017				D	EVELOPER	/ SAMPLER :	N	J V
Filename :		nw log 2017-	09-26.xls				MANAGER :		СВ
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
							T	1	
1	103.70	92.27	11.43	18.00	1310	7.19	2,900	18.4	3.50
2	102.37	91.38	10.99	18.60	1700	6.90	2,500	18.9	3.75
3	101.51	91.41	10.10	20.00	1605	6.97	1,900	17.9	4.75
4	98.52	89.03	9.49	18.75	1510	7.29	2,300	18.9	4.50
5	99.23	87.02	12.21	17.60	1415	7.03	2,100	18.8	2.75
NOTES:	Volume of	water purge		DAT	BRATIONS = E E & TIME = E Eampling; V =	4.01/7.00/10.00 09/26/17 pi X r2 X h	- 0700 X 7.48 gal./i	ft3) X 3 (well	bores).
	(i.e. 2" MW	r = (1/12) ft	t. h = 1 ft.)	(i.e. 4" MW	r = (2/12) ft.	. h = 1 ft.)	_		
	Ideally a mi	inimum of thr	ee (3) wellbo	re volumes	:	2.00" well d	iameter =	0.49 gal./ft.	of water.
Comments	or note we	ell diameter	if not standa	ard 2".	_				
Excellent re	covery in all M	IWs. Collecte	d sample from	all MWs for	BTEX & gener	al chemistry.	Purged wells	s using 2 inch	
					adjustable flo				
	-				-				-
lop of cas	ing MW # 1 ~	2.13 ft., MW	# 2 ~ 2.08 ft.,	MW # 3 ~ 1.	.88 ft., MW # 4	~ 2.25 ft., N	1VV # 5 ~ 2.08	tt. above grad	de.

12:15 PM	temp	66 F
5:15 PM	temp	73 F
	Mostly cl	oudy
0 - 10	direct.	E-SW-NW
	5:15 PM	5:15 PM temp Mostly cl

MONITOR WELL

LABORATORY

RESULTS

Date Reported: 2/5/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW# 2

 Project:
 GCU #215
 Collection Date: 1/28/2015 2:15:00 PM

 Lab ID:
 1501A34-001
 Matrix: AQUEOUS
 Received Date: 1/29/2015 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	1/29/2015 5:12:32 PM	R23989
Toluene	ND	1.0	μg/L	1	1/29/2015 5:12:32 PM	R23989
Ethylbenzene	7.9	1.0	μg/L	1	1/29/2015 5:12:32 PM	R23989
Xylenes, Total	2.8	2.0	μg/L	1	1/29/2015 5:12:32 PM	R23989
Surr: 4-Bromofluorobenzene	120	66.6-167	%REC	1	1/29/2015 5:12:32 PM	R23989
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Fluoride	1.5	0.50	mg/L	5	1/29/2015 6:29:35 PM	R23999
Chloride	120	10	mg/L	20	1/29/2015 6:41:59 PM	R23999
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5	1/29/2015 6:29:35 PM	R23999
Sulfate	1400	25	mg/L	50	2/2/2015 11:21:03 PM	R24057
SM2540C MOD: TOTAL DISSOLVED S	SOLIDS				Analyst	:: KS
Total Dissolved Solids	2950	40.0	* mg/L	1	1/30/2015 5:17:00 PM	17468

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

Qualifiers:

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

Page 1 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/5/2015

CLIENT: Blagg Engineering Client Sample ID: MW #3

 Project:
 GCU #215
 Collection Date: 1/28/2015 12:45:00 PM

 Lab ID:
 1501A34-002
 Matrix: AQUEOUS
 Received Date: 1/29/2015 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	1/29/2015 6:07:09 PM	R23989
Toluene	ND	1.0	μg/L	1	1/29/2015 6:07:09 PM	R23989
Ethylbenzene	ND	1.0	μg/L	1	1/29/2015 6:07:09 PM	R23989
Xylenes, Total	ND	2.0	μg/L	1	1/29/2015 6:07:09 PM	R23989
Surr: 4-Bromofluorobenzene	109	66.6-167	%REC	1	1/29/2015 6:07:09 PM	R23989
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Fluoride	1.3	0.10	mg/L	1	1/29/2015 6:54:24 PM	R23999
Chloride	65	10	mg/L	20	1/29/2015 7:06:48 PM	R23999
Nitrogen, Nitrate (As N)	ND	0.10	mg/L	1	1/29/2015 6:54:24 PM	R23999
Sulfate	1000	25	mg/L	50	2/2/2015 11:33:28 PM	R24057
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst	: KS
Total Dissolved Solids	1990	40.0	* mg/L	1	1/30/2015 5:17:00 PM	17468

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

Qualifiers:

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

Page 2 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/5/2015

CLIENT: Blagg Engineering Client Sample ID: MW# 4

 Project:
 GCU #215
 Collection Date: 1/28/2015 11:10:00 AM

 Lab ID:
 1501A34-003
 Matrix: AQUEOUS
 Received Date: 1/29/2015 8:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	13	1.0	μg/L	1	1/29/2015 6:34:26 PM	R23989
Toluene	ND	1.0	μg/L	1	1/29/2015 6:34:26 PM	R23989
Ethylbenzene	23	1.0	μg/L	1	1/29/2015 6:34:26 PM	R23989
Xylenes, Total	10	2.0	μg/L	1	1/29/2015 6:34:26 PM	R23989
Surr: 4-Bromofluorobenzene	122	66.6-167	%REC	1	1/29/2015 6:34:26 PM	R23989
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Fluoride	2.0	0.50	mg/L	5	1/29/2015 7:19:12 PM	R23999
Chloride	61	2.5	mg/L	5	1/29/2015 7:19:12 PM	R23999
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5	1/29/2015 7:19:12 PM	R23999
Sulfate	640	10	mg/L	20	1/29/2015 7:31:36 PM	R23999
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst	: KS
Total Dissolved Solids	1760	100	* mg/L	1	1/30/2015 5:17:00 PM	17468

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

Qualifiers:

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

Page 3 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order **1502624**Date Reported: **2/23/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU #215
 Collection Date: 2/12/2015 12:45:00 PM

 Lab ID:
 1502624-001
 Matrix: AQUEOUS
 Received Date: 2/13/2015 7:15:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	3.1	1.0	μg/L	1	2/16/2015 11:21:11 AM	R24332
Toluene	ND	1.0	μg/L	1	2/16/2015 11:21:11 AM	R24332
Ethylbenzene	4.0	1.0	μg/L	1	2/16/2015 11:21:11 AM	R24332
Xylenes, Total	ND	2.0	μg/L	1	2/16/2015 11:21:11 AM	R24332
Surr: 4-Bromofluorobenzene	102	66.6-167	%REC	1	2/16/2015 11:21:11 AM	R24332
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Fluoride	3.5	0.10	mg/L	1	2/14/2015 2:49:08 AM	R24319
Chloride	87	10	mg/L	20	2/14/2015 3:01:32 AM	R24319
Nitrogen, Nitrate (As N)	ND	0.10	mg/L	1	2/14/2015 2:49:08 AM	R24319
Sulfate	650	10	mg/L	20	2/14/2015 3:01:32 AM	R24319
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst	: KS
Total Dissolved Solids	1860	20.0	* mg/L	1	2/19/2015 10:52:00 AM	17789

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

Qualifiers:

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

Page 1 of 5

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

Lab Order **1502624**

Date Reported: 2/23/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: LP AGT Produced Water

Project: GCU #215 **Collection Date:** 2/12/2015 11:50:00 AM

Lab ID: 1502624-002 **Matrix:** AQUEOUS **Received Date:** 2/13/2015 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: JRR
Fluoride	4.8	0.50	* mg/L	5 2/14/2015 3:13:56 AM	R24319
Nitrogen, Nitrate (As N)	ND	0.50	mg/L	5 2/14/2015 3:13:56 AM	R24319
Sulfate	ND	2.5	mg/L	5 2/14/2015 3:13:56 AM	/ R24319
SM2540C MOD: TOTAL DISSOLVED SOLIDS				Analy	st: KS
Total Dissolved Solids	11800	200	* mg/L	1 2/19/2015 10:52:00 A	M 17789

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

Qualifiers:

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

Page 2 of 5

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

Lab Order **1505941**

Date Reported: 5/29/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 GCU #215
 Collection Date: 5/20/2015 8:25:00 AM

 Lab ID:
 1505941-001
 Matrix: AQUEOUS
 Received Date: 5/21/2015 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analysi	:: LGT
Fluoride	1.9	0.50		mg/L	5	5/22/2015 2:38:01 PM	R26388
Chloride	61	2.5		mg/L	5	5/22/2015 2:38:01 PM	R26388
Nitrogen, Nitrate (As N)	ND	0.50	Н	mg/L	5	5/22/2015 2:38:01 PM	R26388
Sulfate	960	10		mg/L	20	5/22/2015 2:50:26 PM	R26388
SM2540C MOD: TOTAL DISSOLVED	SOLIDS					Analyst	: KS
Total Dissolved Solids	1760	20.0	*	mg/L	1	5/27/2015 5:35:00 PM	19387
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	1.0		μg/L	1	5/26/2015 3:39:03 PM	R26413
Toluene	ND	1.0		μg/L	1	5/26/2015 3:39:03 PM	R26413
Ethylbenzene	ND	1.0		μg/L	1	5/26/2015 3:39:03 PM	R26413
Xylenes, Total	ND	2.0		μg/L	1	5/26/2015 3:39:03 PM	R26413
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	5/26/2015 3:39:03 PM	R26413

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

Qualifiers:

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

Page 1 of 5

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

Lab Order 1505941

Date Reported: 5/29/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #4

Project: GCU #215 **Collection Date:** 5/20/2015 9:20:00 AM Lab ID: 1505941-002 Matrix: AQUEOUS **Received Date:** 5/21/2015 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst: NSB 5/26/2015 6:35:56 PM R26413 5/26/2015 6:35:56 PM R26413	st: NSB
Benzene	6.1	1.0	μg/L	1	5/26/2015 6:35:56 PM	R26413
Toluene	ND	1.0	μg/L	1	5/26/2015 6:35:56 PM	R26413
Ethylbenzene	26	1.0	μg/L	1	5/26/2015 6:35:56 PM	R26413
Xylenes, Total	3.0	2.0	μg/L	1	5/26/2015 6:35:56 PM	R26413
Surr: 4-Bromofluorobenzene	114	80-120	%REC	1	5/26/2015 6:35:56 PM	R26413

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

Page 2 of 5

- Reporting Detection Limit

Lab Order **1512204**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2015

CLIENT: Blagg Engineering Client Sample ID: MW #4

 Project:
 GCU #215
 Collection Date: 12/2/2015 10:55:00 AM

 Lab ID:
 1512204-001
 Matrix: AQUEOUS
 Received Date: 12/4/2015 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analy	st: NSB
Benzene	ND	1.0	μg/L	1 12/10/2015 1:41:33 A	M B30727
Toluene	ND	1.0	μg/L	1 12/10/2015 1:41:33 A	M B30727
Ethylbenzene	ND	1.0	μg/L	1 12/10/2015 1:41:33 A	M B30727
Xylenes, Total	ND	2.0	μg/L	1 12/10/2015 1:41:33 A	M B30727
Surr: 4-Bromofluorobenzene	123	65-127	%REC	1 12/10/2015 1:41:33 A	M B30727

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

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
- R RPD outside accepted recovery limits
- 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 Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1512204**

Date Reported: 12/10/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU #215
 Collection Date: 12/2/2015 11:50:00 AM

 Lab ID:
 1512204-002
 Matrix: AQUEOUS
 Received Date: 12/4/2015 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Ana	alyst: NSB
Benzene	ND	1.0	μg/L	1 12/10/2015 2:05:58	3 AM B30727
Toluene	ND	1.0	μg/L	1 12/10/2015 2:05:58	3 AM B30727
Ethylbenzene	1.3	1.0	μg/L	1 12/10/2015 2:05:58	3 AM B30727
Xylenes, Total	ND	2.0	μg/L	1 12/10/2015 2:05:58	3 AM B30727
Surr: 4-Bromofluorobenzene	120	65-127	%REC	1 12/10/2015 2:05:58	3 AM B30727

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

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
- R RPD outside accepted recovery limits
- 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 Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1602A67**Date Reported: **3/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #4

 Project:
 GCU #215
 Collection Date: 2/23/2016 11:00:00 AM

 Lab ID:
 1602A67-001
 Matrix: AQUEOUS
 Received Date: 2/25/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analys	t: NSB
Benzene	ND	1.0	μg/L	1 2/26/2016 12:10:58 PM	1 R32443
Toluene	ND	1.0	μg/L	1 2/26/2016 12:10:58 PM	1 R32443
Ethylbenzene	1.1	1.0	μg/L	1 2/26/2016 12:10:58 PM	1 R32443
Xylenes, Total	2.3	2.0	μg/L	1 2/26/2016 12:10:58 PM	1 R32443
Surr: 4-Bromofluorobenzene	119	65-127	%Rec	1 2/26/2016 12:10:58 PM	1 R32443

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1602A67**Date Reported: **3/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU #215
 Collection Date: 2/23/2016 12:00:00 PM

 Lab ID:
 1602A67-002
 Matrix: AQUEOUS
 Received Date: 2/25/2016 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	1.0	μg/L	1	2/26/2016 12:35:47 F	PM R32443
Toluene	ND	1.0	μg/L	1	2/26/2016 12:35:47 F	PM R32443
Ethylbenzene	ND	1.0	μg/L	1	2/26/2016 12:35:47 F	PM R32443
Xylenes, Total	ND	2.0	μg/L	1	2/26/2016 12:35:47 F	PM R32443
Surr: 4-Bromofluorobenzene	107	65-127	%Rec	1	2/26/2016 12:35:47 F	PM R32443

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RLReporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1605B98**Date Reported: **6/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 4

 Project:
 GCU 215
 Collection Date: 5/25/2016 11:30:00 AM

 Lab ID:
 1605B98-001
 Matrix: AQUEOUS
 Received Date: 5/26/2016 7:54:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analy	/st: NSB
Benzene	ND	1.0	μg/L	1	5/27/2016 10:08:31 /	AM A34548
Toluene	ND	1.0	μg/L	1	5/27/2016 10:08:31 /	AM A34548
Ethylbenzene	ND	1.0	μg/L	1	5/27/2016 10:08:31 /	AM A34548
Xylenes, Total	ND	2.0	μg/L	1	5/27/2016 10:08:31 /	AM A34548
Surr: 4-Bromofluorobenzene	120	87.9-146	%Rec	1	5/27/2016 10:08:31 /	AM A34548

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RLReporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1605B98**Date Reported: **6/1/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 5

 Project:
 GCU 215
 Collection Date: 5/25/2016 10:45:00 AM

 Lab ID:
 1605B98-002
 Matrix: AQUEOUS
 Received Date: 5/26/2016 7:54:00 AM

Analyses	Result	PQL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES				Analys	st: NSB
Benzene	ND	1.0	μg/L	1 5/27/2016 10:32:09 A	M A34548
Toluene	ND	1.0	μg/L	1 5/27/2016 10:32:09 A	M A34548
Ethylbenzene	ND	1.0	μg/L	1 5/27/2016 10:32:09 A	M A34548
Xylenes, Total	ND	2.0	μg/L	1 5/27/2016 10:32:09 A	M A34548
Surr: 4-Bromofluorobenzene	115	87.9-146	%Rec	1 5/27/2016 10:32:09 A	M A34548

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RLReporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1608C15**Date Reported: **8/25/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 4

 Project:
 GCU 215
 Collection Date: 8/18/2016 12:55:00 PM

 Lab ID:
 1608C15-001
 Matrix: AQUEOUS
 Received Date: 8/20/2016 9:15:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	1.0	μg/L	1	8/24/2016 5:12:00 PM	B36734
Toluene	ND	1.0	μg/L	1	8/24/2016 5:12:00 PM	B36734
Ethylbenzene	ND	1.0	μg/L	1	8/24/2016 5:12:00 PM	B36734
Xylenes, Total	ND	2.0	μg/L	1	8/24/2016 5:12:00 PM	B36734
Surr: 4-Bromofluorobenzene	98.9	87.9-146	%Rec	1	8/24/2016 5:12:00 PM	B36734

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1608C15**Date Reported: **8/25/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 5

 Project:
 GCU 215
 Collection Date: 8/18/2016 11:55:00 AM

 Lab ID:
 1608C15-002
 Matrix: AQUEOUS
 Received Date: 8/20/2016 9:15:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analys	st: NSB
Benzene	ND	2.0	D	μg/L	2	8/24/2016 5:36:28 PM	B36734
Toluene	ND	2.0	D	μg/L	2	8/24/2016 5:36:28 PM	B36734
Ethylbenzene	ND	2.0	D	μg/L	2	8/24/2016 5:36:28 PM	B36734
Xylenes, Total	ND	4.0	D	μg/L	2	8/24/2016 5:36:28 PM	B36734
Surr: 4-Bromofluorobenzene	89.2	87.9-146	D	%Rec	2	8/24/2016 5:36:28 PM	B36734

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RLReporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Date Reported: 12/12/2016

Lab Order **1612461**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: MW #4

 Project:
 GCU 215
 Collection Date: 12/6/2016 12:25:00 PM

 Lab ID:
 1612461-001
 Matrix: AQUEOUS
 Received Date: 12/8/2016 8:10:00 AM

Result **PQL Qual Units Analyses DF** Date Analyzed **Batch EPA METHOD 8021B: VOLATILES** Analyst: NSB 12/9/2016 1:20:08 PM Benzene ND 1.0 μg/L 1 B39284 ND Toluene 1.0 μg/L 1 12/9/2016 1:20:08 PM B39284 Ethylbenzene ND 1.0 μg/L 1 12/9/2016 1:20:08 PM B39284 Xylenes, Total ND 2.0 μg/L 12/9/2016 1:20:08 PM B39284 Surr: 4-Bromofluorobenzene 96.2 %Rec 12/9/2016 1:20:08 PM B39284 80-120

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 3
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	ND	 D Sample Diluted Due to Matrix H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P R RPD outside accepted recovery limits RL

Date Reported: 12/12/2016

Lab Order **1612461**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU 215
 Collection Date: 12/6/2016 11:20:00 AM

 Lab ID:
 1612461-002
 Matrix: AQUEOUS
 Received Date: 12/8/2016 8:10:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	1.0	μg/L	1	12/9/2016 1:44:32 PM	B39284
Toluene	ND	1.0	μg/L	1	12/9/2016 1:44:32 PM	B39284
Ethylbenzene	ND	1.0	μg/L	1	12/9/2016 1:44:32 PM	B39284
Xylenes, Total	ND	2.0	μg/L	1	12/9/2016 1:44:32 PM	B39284
Surr: 4-Bromofluorobenzene	89.3	80-120	%Rec	1	12/9/2016 1:44:32 PM	B39284

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 2 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RLReporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Lab Order **1702A94**Date Reported: **3/3/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #4

 Project:
 GCU 215
 Collection Date: 2/23/2017 1:35:00 PM

 Lab ID:
 1702A94-001
 Matrix: AQUEOUS
 Received Date: 2/24/2017 8:08:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analys	t: DJF
Benzene	ND	1.0	μg/L	1	3/1/2017 4:20:10 PM	B41093
Toluene	ND	1.0	μg/L	1	3/1/2017 4:20:10 PM	B41093
Ethylbenzene	ND	1.0	μg/L	1	3/1/2017 4:20:10 PM	B41093
Xylenes, Total	ND	1.5	μg/L	1	3/1/2017 4:20:10 PM	B41093
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	3/1/2017 4:20:10 PM	B41093
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	3/1/2017 4:20:10 PM	B41093
Surr: Dibromofluoromethane	103	70-130	%Rec	1	3/1/2017 4:20:10 PM	B41093
Surr: Toluene-d8	99.0	70-130	%Rec	1	3/1/2017 4:20:10 PM	B41093

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 3 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range R RPD outside accepted recovery limits RL Reporting Detection Limit

Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 3/3/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU 215
 Collection Date: 2/23/2017 12:40:00 PM

 Lab ID:
 1702A94-002
 Matrix: AQUEOUS
 Received Date: 2/24/2017 8:08:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analys	t: DJF
Benzene	ND	1.0	μg/L	1	3/1/2017 4:49:07 PM	B41093
Toluene	ND	1.0	μg/L	1	3/1/2017 4:49:07 PM	B41093
Ethylbenzene	ND	1.0	μg/L	1	3/1/2017 4:49:07 PM	B41093
Xylenes, Total	ND	1.5	μg/L	1	3/1/2017 4:49:07 PM	B41093
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	3/1/2017 4:49:07 PM	B41093
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	3/1/2017 4:49:07 PM	B41093
Surr: Dibromofluoromethane	103	70-130	%Rec	1	3/1/2017 4:49:07 PM	B41093
Surr: Toluene-d8	99.4	70-130	%Rec	1	3/1/2017 4:49:07 PM	B41093

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

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
- R RPD outside accepted recovery limits
- 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 Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order **1706F13**Date Reported: **7/3/2017**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 5

 Project:
 GCU 215
 Collection Date: 6/27/2017 11:20:00 AM

 Lab ID:
 1706F13-001
 Matrix: AQUEOUS
 Received Date: 6/28/2017 8:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SI	HORT LIST				Analyst	: AG
Benzene	ND	1.0	μg/L	1	6/30/2017 5:28:45 PM	B43928
Toluene	ND	1.0	μg/L	1	6/30/2017 5:28:45 PM	B43928
Ethylbenzene	ND	1.0	μg/L	1	6/30/2017 5:28:45 PM	B43928
Xylenes, Total	5.3	1.5	μg/L	1	6/30/2017 5:28:45 PM	B43928
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	6/30/2017 5:28:45 PM	B43928
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	6/30/2017 5:28:45 PM	B43928
Surr: Dibromofluoromethane	104	70-130	%Rec	1	6/30/2017 5:28:45 PM	B43928
Surr: Toluene-d8	100	70-130	%Rec	1	6/30/2017 5:28:45 PM	B43928

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

Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix Е Value above quantitation range Analyte detected below quantitation limits Page 1 of 2 Н Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P Sample pH Not In Range PQL Practical Quanitative Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/11/2017

CLIENT: Blagg Engineering Client Sample ID: MW #1

 Project:
 GCU 215
 Collection Date: 9/26/2017 1:10:00 PM

 Lab ID:
 1709G44-001
 Matrix: AQUEOUS
 Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: MRA
Fluoride	2.5	0.50		mg/L	5	10/3/2017 3:08:44 PM	R46083
Chloride	83	2.5		mg/L	5	10/3/2017 3:08:44 PM	R46083
Nitrogen, Nitrite (As N)	ND	0.50	Н	mg/L	5	10/3/2017 3:08:44 PM	R46083
Nitrogen, Nitrate (As N)	ND	0.50	Н	mg/L	5	10/3/2017 3:08:44 PM	R46083
Sulfate	1300	25		mg/L	50	10/5/2017 2:22:36 AM	R46093
SM2540C MOD: TOTAL DISSOLVED S	OLIDS					Analyst	: KS
Total Dissolved Solids	3090	200	*D	mg/L	1	10/3/2017 12:42:00 PM	34165
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	2.0	D	μg/L	2	10/2/2017 10:09:41 AM	B46025
Toluene	ND	2.0	D	μg/L	2	10/2/2017 10:09:41 AM	B46025
Ethylbenzene	ND	2.0	D	μg/L	2	10/2/2017 10:09:41 AM	B46025
Xylenes, Total	ND	4.0	D	μg/L	2	10/2/2017 10:09:41 AM	B46025
Surr: 4-Bromofluorobenzene	118	72.5-140	D	%Rec	2	10/2/2017 10:09:41 AM	B46025

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 8
	ND	Not Detected at the Reporting Limit	P	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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/11/2017

CLIENT: Blagg Engineering Client Sample ID: MW #2

 Project:
 GCU 215
 Collection Date: 9/26/2017 5:00:00 PM

 Lab ID:
 1709G44-002
 Matrix: AQUEOUS
 Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Fluoride	0.86	0.10		mg/L	1 10/3/2017 3:33:33 PM R46083
Chloride	85	10		mg/L	20 10/3/2017 3:45:58 PM R46083
Nitrogen, Nitrite (As N)	ND	0.10	Н	mg/L	1 10/3/2017 3:33:33 PM R46083
Nitrogen, Nitrate (As N)	ND	0.10	Н	mg/L	1 10/3/2017 3:33:33 PM R46083
Sulfate	1400	25		mg/L	50 10/5/2017 2:35:01 AM R46093
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst: KS
Total Dissolved Solids	3100	200	*D	mg/L	1 10/3/2017 12:42:00 PM 34165
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0		μg/L	1 10/2/2017 10:33:20 AM B46025
Toluene	ND	1.0		μg/L	1 10/2/2017 10:33:20 AM B46025
Ethylbenzene	ND	1.0		μg/L	1 10/2/2017 10:33:20 AM B46025
Xylenes, Total	ND	2.0		μg/L	1 10/2/2017 10:33:20 AM B46025
Surr: 4-Bromofluorobenzene	116	72.5-140		%Rec	1 10/2/2017 10:33:20 AM B46025

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 8
	ND	Not Detected at the Reporting Limit	P	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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/11/2017

CLIENT: Blagg Engineering Client Sample ID: MW #3

 Project:
 GCU 215
 Collection Date: 9/26/2017 4:05:00 PM

 Lab ID:
 1709G44-003
 Matrix: AQUEOUS
 Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Fluoride	0.84	0.10		mg/L	1 10/3/2017 4:23:11 PM R46083
Chloride	62	10		mg/L	20 10/3/2017 4:35:35 PM R46083
Nitrogen, Nitrite (As N)	ND	0.10	Н	mg/L	1 10/3/2017 4:23:11 PM R46083
Nitrogen, Nitrate (As N)	ND	0.10	Н	mg/L	1 10/3/2017 4:23:11 PM R46083
Sulfate	860	25		mg/L	50 10/5/2017 2:47:25 AM R46093
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst: KS
Total Dissolved Solids	1820	40.0	*D	mg/L	1 10/3/2017 12:42:00 PM 34165
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0		μg/L	1 10/2/2017 11:20:34 AM B46025
Toluene	ND	1.0		μg/L	1 10/2/2017 11:20:34 AM B46025
Ethylbenzene	1.5	1.0		μg/L	1 10/2/2017 11:20:34 AM B46025
Xylenes, Total	ND	2.0		μg/L	1 10/2/2017 11:20:34 AM B46025
Surr: 4-Bromofluorobenzene	120	72.5-140		%Rec	1 10/2/2017 11:20:34 AM B46025

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
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	P	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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/11/2017

CLIENT: Blagg Engineering Client Sample ID: MW #4

 Project:
 GCU 215
 Collection Date: 9/26/2017 3:10:00 PM

 Lab ID:
 1709G44-004
 Matrix: AQUEOUS
 Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Fluoride	1.3	0.10		mg/L	1 10/3/2017 4:47:59 PM R46083
Chloride	64	10		mg/L	20 10/3/2017 5:00:23 PM R46083
Nitrogen, Nitrite (As N)	ND	0.10	Н	mg/L	1 10/3/2017 4:47:59 PM R46083
Nitrogen, Nitrate (As N)	ND	0.10	Н	mg/L	1 10/3/2017 4:47:59 PM R46083
Sulfate	960	10		mg/L	20 10/3/2017 5:00:23 PM R46083
SM2540C MOD: TOTAL DISSOLVED SO	DLIDS				Analyst: KS
Total Dissolved Solids	2010	40.0	*D	mg/L	1 10/3/2017 12:42:00 PM 34165
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0		μg/L	1 10/2/2017 11:44:13 AM B46025
Toluene	ND	1.0		μg/L	1 10/2/2017 11:44:13 AM B46025
Ethylbenzene	ND	1.0		μg/L	1 10/2/2017 11:44:13 AM B46025
Xylenes, Total	ND	2.0		μg/L	1 10/2/2017 11:44:13 AM B46025
Surr: 4-Bromofluorobenzene	117	72.5-140		%Rec	1 10/2/2017 11:44:13 AM B46025

Qualifiers:	*	Value exceeds Maximum Contaminant Level. B 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 8					
	ND	Not Detected at the Reporting Limit	P	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					

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 10/11/2017

CLIENT: Blagg Engineering Client Sample ID: MW #5

 Project:
 GCU 215
 Collection Date: 9/26/2017 2:15:00 PM

 Lab ID:
 1709G44-005
 Matrix: AQUEOUS
 Received Date: 9/28/2017 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Fluoride	2.1	0.50		mg/L	5 10/3/2017 5:12:48 PM R46083
Chloride	84	2.5		mg/L	5 10/3/2017 5:12:48 PM R46083
Nitrogen, Nitrite (As N)	ND	0.50	Н	mg/L	5 10/3/2017 5:12:48 PM R46083
Nitrogen, Nitrate (As N)	ND	0.50	Н	mg/L	5 10/3/2017 5:12:48 PM R46083
Sulfate	880	10		mg/L	20 10/3/2017 5:25:13 PM R46083
SM2540C MOD: TOTAL DISSOLVED S	OLIDS				Analyst: KS
Total Dissolved Solids	1980	100	*D	mg/L	1 10/3/2017 12:42:00 PM 34165
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	2.0	D	μg/L	2 10/2/2017 12:07:54 PM B46025
Toluene	ND	2.0	D	μg/L	2 10/2/2017 12:07:54 PM B46025
Ethylbenzene	ND	2.0	D	μg/L	2 10/2/2017 12:07:54 PM B46025
Xylenes, Total	ND	4.0	D	μg/L	2 10/2/2017 12:07:54 PM B46025
Surr: 4-Bromofluorobenzene	121	72.5-140	D	%Rec	2 10/2/2017 12:07:54 PM B46025

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	Maximum Contaminant Level. B Analyte detected in the								
	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 8							
	ND	Not Detected at the Reporting Limit	P	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							

MONITOR WELL

LABORATORY

CHAIN-OF-CUSTODY

RECORDS

Chain-of-Custody Record Client: BLAGG ENGR. / BP AMERICA				Tulii-Aldulia I	iii (G					H	A	LL	E	V	IF	O	N	MEN	TA	L	
Accreditation: DIAGG ENGR. / BP AMERICA Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199 Email or Fax#: A/QC Package: Standard Level 4 (Full Validation): NELAP DOTHER DOTHER DOTHER DOTHER		BP AMERICA	☑ Standard	Rush _					A	N	AL	YS	SIS	L	AE	30	RAT	OF	Y		
Mailing Address: P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199 mail or Fax#: (A/QC Package: Standard Level 4 (Full Validation Accreditation: NELAP Date Time Matrix Sample Request I 1/28/15 1415 WATER MW # 2			87	Project Name:	GCU # 21	5		490	01 H								com	7109			
		BLOOMF	IELD, NM 87413	Project #:				Te	1.50	5-34	15-3	975	F	ax	505-	345	-410	7		-	
Phone #*												A	nal	ysis	Req	ues	t				
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	100		Level 4 (Full Validation)		NELSON VE	LEZ	B1s (8021B)	(Aluo s	/ MRO)		J	(5)		,PO4,50	2 PCB's					əle	
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D EDD (T	ype)			Sample Tempe	erature: /-	0	1	BE +	(GR	hod	hod	0 or	Metals	D,	Pesticides	OA)	V-in	Anion Balance	ple	composite	N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1501A34	BTEX +-MI	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method	PAH (8310 or 82705IMS)	RCRA 8 N	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pes	8260B (VOA)	8270 (Semi-VOA)	Cation / A	Grab sample	5 pt. com	1110
1/28/15	1415	WATER	MW # 2	40 ml VOA - 2	HCI & Cool	-001	٧												٧		
1/28/15	1415	WATER	MW # 2	500 ml - 1	Cool													٧	٧		
1/28/15	1245	WATER	MW#3	40 ml VOA - 2	HCI & Cool	-002	٧												٧		
1/28/15	1245	WATER	MW # 3	500 ml - 1	Cool										H	H		٧	٧	H	
1/28/15	1110	WATER	MW # 4	40 ml VOA - 2	HCI & Cool	-003	٧												٧		
1/28/15	1110	WATER	MW # 4	500 ml - 1	Cool			4	-					Н				٧	٧		
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1/28/15	1528	70	len y	Mustu Walte 1/28/15/15/28 BILL DIRECTLY TO BP: Jeff Peace, 200 Energy Court, Farmington, NM 87401																	
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	Chain-of-Custody Record			Turn-Around Time:							IA	LL	E	NV	/IF	30	NI	ИE	NT	AL	
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				Project Name:						15		7/-					con				
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		BLOOM	FIELD, NM 87413	Project #:				T	1.50	05-3	45-3	975		Fax	505	345	410	7			
Phone #:		(505) 63	2-1199									1	Anal	ysis	Red	ques	st		200		
email or F	ax#:			Project Manag	er:									1							
QA/QC Pad Standa			Level 4 (Full Validation)	NELSON VELEZ				+ TPH (Gas only)	/ MRO)			IS)		(804)						a	
Accreditat	tion:			Sampler: NELSON VELEZ				(Gas	/ DRO	1	1.	8270SIMS)	GNU	VO2,	şp			age	- 1	98	
□ NELAP	•	□ Other		On Ice: ∠i Yes □ No				FH	1/0	418	504	827	S	(P)	Solids		OA)	Bala		2 9	N
□ EDD (1	Type)			Sample Temperature: 1.2					(GR	pou	hod	ō	क्ट्र	T	hed	(AC	ni-V	noin	3	DOG!	2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +- BASE	BTEX + MTBE	TPH 80158 (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Anions(F)	Total Dissolved	8260B (VOA)	8270 (Semi-VOA)	Cation / Anion Balance	des des	5 of composite sample	Air Rubbles (V or NV
2/12/15	1245	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-001	٧												1		
2/12/15	1245	WATER	MW # 5	500 ml - 1	Cool	_1_		ı										٧	1	1	
2/12/15	1156	WATER	LP AGT PRODUCED WATER	500 ml - 1	Cool	-002								٧	٧				,	,	
					14			H								-			-	+	+
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Date: 15 Date: 15	Time: 17 17 Time: 1810	Relinquish	In Uf	Received by:	Walter	Date Time 2/12/15 1717 Date Time	B	ILL D	IREC	TLY	TO B	P: gy O						A/C b	palance	+	

Chain-of-Custody Record				Turn-Around T	ime:					ŀ	1A	LL	E	NV	/IF	20	NI	ME	NT	AL	
Client:	BLAG	G ENGR.	/ BP AMERICA	☑ Standard	Rush_					1	N	AL	Y	SIS	SL	A	30	RA	TO	RY	
				Project Name:										viro							
Mailing A	ddress:	P.O. BOX	(87	GCU # 215				49	01 F	lawk	ins i	NE -	Alt	ouqu	erqu	ue, N	IM 8	7109	ŕ		
		BLOOME	IELD, NM 87413	Project #:					el. 50	05-3	45-3	975		Fax	505	345	-410	7			
Phone #:		(505) 63											_	ysis	Rec	ques	t				
email or F	ax#:	(000)		Project Manager					-<	-	64)-1		-	100				-	T	1
QA/QC Pa	ckage:		Level 4 (Full Validation)	NELSON VELEZ				(Aluo	/ DRD / MRO)			(S)		05,50							
Accreditat				Sampler: NELSON VELEZ %				Gas	RO/	1)	1	SIN		102,1	10			ance		mp	-
□ NELAF		☐ Other		On Ice: XYes □ No					0/0	118	504	3270		N,cO	Solid	7.1	(AC	Bal.		e sa	1
EDD (Гуре)			Sample Temperature: 1.0					(GRC	pol	por	018	etals	N,	pan	F	N-i	tion	9	osit	2
Date	Time	Matrix	Sample Request ID	Container Preservative Type and # Type HEAL No.		BTEX AGTE	BTEX + MTBE + TPH (Gas only)	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)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance	Grah cample	5 pt. composite sample	Ale Buch Line	
5/20/15	0825	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	-00	V								E				1	1	
5/20/15	0825	WATER	MW #1	500 ml - 1	Cool	-01							Н		٧			٧	1	1	-
5/20/15	0920	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-02	٧												1	,	ļ
																			#	-	+
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Date: 5/20/15 Date: 5/20/15	Time: 19 /D Time: 2000	Relinquish	my	Received by: Date Time State 191 Received by: Date Time State S							гов	P: gy Ci						A/C b 37401	alance		

C	Chain-of-Custody Record				Turn-Around Time:					1	Αŀ		F	NV	/TF	20	NI	ME	NT	'Al	L
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	☐ Rush _] [-							ATC		
				Project Name:		www.hallenvironmental.com															
Mailing A	ddress:	P.O. BO	X 87		GCU # 21	5		49	01 H	lawl	kins l	NE -	- All	ouqu	erqu	ıe, ۱	1M 8	37109	9		
	-	BLOOM	FIELD, NM 87413	Project #:				Te	el. 50)5-3	45-3	975		Fax	505	-345	-410)7			
Phone #:		(505) 63	2-1199										Anal	ysis	Rec	ques	ŧ				
email or F	ax#:			Project Manager:										4					. I		
QA/QC Pa	-		Level 4 (Full Validation)	NELSON VELEZ				(Aluo	/ MRO)			AS)		PO4,SO							ē
Accreditat				Sampler:	NELSON VI	ELEZ ZV	**************************************	+ TPH (Gas	DRO,	1)	÷.	OSIN		Š,	SC			Cations Balance			due
□ NELAF	•	☐ Other		On Ice: Z Yes 🗆 No				TPH.	٦/c	418	504	827	٦	03,1	Solic		\ ₹	s Bal			ie St
	Гуре)			Sample Tempé	rature: 🔼		1	+ H H	(GR(por	bo	ō	etak	N,	ved	ৰ	<u>÷</u>	tion		흥	osil
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX	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)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Ca		Grab sample	5 pt. composite sample
8/24/15	0805	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-001	٧													٧	
	-																			\Box	
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																				\bot	
Date:	Time:	Relinquishe	ed by:	Received by: Date Time			Rei	mark	s:												
8/25/15	1710 Man Vj			Christ Weet 8/28/15 1710				BILL DIRECTLY TO BP:													
Date: Time: Relinquished by:				Received by:	<u> </u>	Date Time		ff Pe	ace,	200	Ener	gy Co	ourt,	Farn	ningt	on, N	1M 8	37401			
8/25/15	125/15 1851 Christin Waller				IN D	8/26/15 AT	ቀ <mark>ፊ</mark>	aykey	/: <u>ZE</u>	VH0	1REN	<u>/IE</u>									

CH	nain-	of-Cus	tody Record	Turn-Around T	ime:					8	IΔ	11	F	NV	TE	20	NI	ME	NTA	AL.	
Client:	BLAG	G ENGR.	/ BP AMERICA	☑ Standard	Rush				5	-									TO		
				Project Name:							ww	w.ha	llen	viro	nme	ntal	.com	1			
Mailing Ac	ldress:	P.O. BOX	(87		GCU # 21	5		49	01 H	lawk	ins	NE -	Alt	uqu	erqu	ue, N	M 8	7109			
		BLOOMF	TELD, NM 87413	Project #:				Te	1.50)5-3	45-3	975	-	Fax	505	345	-410	7			
Phone #:		(505) 63	2-1199							L		A	Anal	ysis	Rec	ques	it				
email or F	ax#:			Project Manag	ier:									4)							
QA/QC Pad	-		Level 4 (Full Validation)		NELSON VI	LEZ	Ble (8021B)	(Ajuo	MRO)			(5)		05,50							
Accreditat	-			Sampler:	NELSON VI	LEZ 97V	8 (8(MTBE + TPH (Gas	RO/	(1)	τ.	OSIN		102	ş			ance		ldm	
□ NELAP		□ Other_		On Ice:	∀ Yes	□ No	1	F	3/0	418	504	327		03,1	Soll		A	s Ba		e S	Z
□ EDD (T	ype)			Sample Tempe	erature: 1.3		1	+	GRC	po	po	or	etal	Ž,	ved	3	ž	tion	e	osit	٥
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 15/2264	BTEX NATE	BTEX + MTB	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,5O4)	Total Dissolved Solids	8250B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
12/2/15	1055	WATER	MW # 4	40 ml VOA - 2	HCI & Cool	-001	٧			Ĭ									٧		
12/2/15	1150	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-002	٧												1/		
							11											4	+	H	
-																					
																			1		
-																			+	H	
								-						-				-	+		
Date	Time	Relinquishe	ad hv:	Received by:	L	Date Time	Rer	nark	5.	_	_	_	_	-	_	_	-	-	-	4	Н
12/3/15	1737	90	her of	13/4	Jul-	12/3/15 1732	BI	LL DI	RECT				vina	too	NAA	874	01 4	ttn - i	5. Mas	skal	
Date: (3)15	741	Relinquishe	of Veet	Received by:	# 1	2/04/15 0800	VI		1			/RM	-	conty		314	-	19.51.5	H WING	- Mart	

Cł	nain-c	of-Cus	tody Record	Turn-Around T	ime:					H	łΑ	LL	E	NV	/IF	80	NI	ИE	NT	ΓAI	L	
lient:	BLAG	G ENGR.	/ BP AMERICA		Rush _					p	N	AL	Y	SIS	S L	A	30	R/	AT(OR	Y	
				Project Name:					20.		ww	w.ha	allen	viro	nme	ntal	.com	1				
1ailing Ac	ldress:	P.O. BO	K 87		GCU # 21	.5		49	01 H					ouqu					9			
		BLOOM	FIELD, NM 87413	Project #:				Τe	el. 50)5-34	15-3	975		Fax	505	-345	-410	7				
hone #:		(505) 63	2-1199									F	Anal	ysis	Red	ues	t					
mail or F	ax#:			Project Manag	er:				Ċ					1)								
A/QC Pac	-		Level 4 (Full Validation)		NELSON VI	ELEZ	#B\(\begin{align*} 480218)	+ TPH (Gas only)	MRO)			15)		05,50				۵.			e	I
ccreditat		 		Sampler:	NELSON V	ELEZ 97V	<u>×</u>	(Gas	/ DRO /	(T	1)	SIIV		102,1	ls			ance			립	
1 NELAP		□ Other		mends to the property of the p	∕ Yes	California de la companya del companya del companya de la companya	1	표	0/c	418.	504.	827(۸.	O3,F	Solic		(A)	s Bal			te sa	ŝ
EDD (T	ype)	· · · · · · · · · · · · · · · · · · ·		Sample Temp	erature: 1,2		1	+	(GR(pog	poi	or	itals	CI,N	ved	€)-i	tion		흥	osit	څ
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1602A17	BTEX 1-14TB	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)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance		윤	5 pt. composite sample	Air Bubbles (Y or N)
2/23/16	1100	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-001	٧												\prod	V		
											·										·	
2/23/16	1200	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	7002	٧													٧		
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-																						
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ate: 2/24/16	Time:	Relinquishe	and by:	Received by:	Waster	Date Time	ВІ		RECT	LY T					4.07/	101	۸++-		hn D	itahi	ia	
ate:	Time:	Relinquishe	tuldeter	Received by:	< ozl7	Date Time	VI	D: _	,	VRIT	CIM	/FEC							hn R			

CI	hain-c	of-Cus	tody Record	Turn-Around	Time:				ш	н	Δ	LL	E	NV	TE	30	NI	MEI	NTA	1	
ient:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	☐ Rush _					A	N	AL	YS	SIS	5 L	A		RA	TOI	in the same	
lailing Ad	ddress:	P.O. BO	X 87		GCU # 21	5		49	01 H	awki	ns I	NE -	Alb	uqu	erq	ue, f	MN 8	37109			
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50	5-34	5-3	975	F	ax .	505	345	-410	17			
none #:		(505) 63	2-1199									А	naly	sis	Red	ques	st				
mail or F	ax#:			Project Manag	er:							97		4)		Į Ť					
A/QC Pad Standa			Level 4 (Full Validation)		NELSON VE	LEZ	(80218)	(yluo	(MRO)			12)	H	05,40						a	
ccreditat	ion:			Sampler:	NELSON VE	LEZ 97V	8	(Gas	/ DRO /	7	F.	8270SIMS)		102,	ş			ance		du	
NELAP		☐ Other		On Ice:	□ Yes	□ No	1	TPH	0/0	418	504	827	S	03,0	Solic		(AC	s Ba		e Sa	2
EDD (T	ype)			Sample Temp	erature: 15		4	3E +	(GR	por	pou	6	etal	CLN	pen	(Y	i-V	tion	e	osit	30
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - BATE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Metals	Arrions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
/25/16	1/30	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-001	٧										_		٧		
/25/16	1045	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-002	٧												V		
											1										
				T						4	-										
										1					L						
25/16	18(0 Time: 2630	Relinquishe	m VJ	Received by:	Whater 05	Date Time 5/25/16 1810 Date Time	BIL 200		RECTI ergy (LY TO Court,	Far	ming		NM	874	01	Attn	.: Johr	n Ritch	iie.	
/25/16 te	18(0 Time: 2630	Pelinquisher Alan	oby:	Mistre	Wasters of	5/25/10 1810 Date Time	200 VII	L DIF	recti ergy (DRIN	Far	ming WA1		Ĺ							John Ritchie

Cł	nain-c	of-Cus	tody Record	Turn-Around T	ime:		HALL ENVIRONMENTAL ANALYSIS LABORATORY											L					
Client:	BLAG	G ENGR.	/ BP AMERICA		☐ Rush _					A	N.	AL	YS	SIS	L	AE	30	RA	T	DR	ŁΥ		
				Project Name:							ww	w.ha	llen	viro	nme	ntal.	.com	ì					
Mailing Ad	ldress:	P.O. BO	X 87		GCU # 21	5		49	01 H	lawk	ins I	NE -	Alb	uqu	erqu	ıe, N	M 8	7109	•				
		BLOOM	FIELD, NM 87413	Project #:				Te	l. 50)5-34	15-3	975	f	ах	505-	345	-410	7					
Phone #:		(505) 63	2-1199									A	mal	ysis	Rec	lues	t						
email or F	ax#:			Project Manag	jer:									4)									
QA/QC Pad	-		Level 4 (Full Validation)	:	NELSON VI	ELEZ	8+5 (8021B)	only)	/ MRO)			(S)		PO4,SO							<u>e</u>		
Accreditat				Sampler:	NELSON V	ELEZ 97V	8) €	(Gas	/ DRO /	Ŧ	1)	SSIN		102,	Js			ance	1		Ĕ		
□ NELAP	•	□ Other		On ice:	□ Yes	□ No	1 ₹	тРН (Gas	0/c	418	504	827	s	ارۋ	Solids		(A)	s Ba	Ì		te s	r N)	
□ EDD (T	ype)			Sample Temp	erature: 🏂 🤇	8	1	+	(GR(bot	pot	or.	etal	8 Metals s (F,Cl,NC Dissolved S 3 (VOA) (Semi-VO s / Cations sample composit.									
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO, NOSCIS	BTEX + MEE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 M	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	Total Dissolved	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)	
8/18/16	1255	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-001	٧													٧			
8/18/16	1155	WATER	MW#5	40 ml VOA - 2	HCl & Cool	-002	٧													٧			
																	,						
	<u> </u>																						
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Date:	Time:	Relinquish	ed hv:	Received by:		Date Time	Rer	nark	L :s:		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u>. </u>	L	Ш			<u></u>		
3/19/16	1055	70	In V	Cush	alt	8/19/10/055	BILL DIRECTLY TO BP:																
Date: 8/19/14	Time:	Relinquish	All out	Received by	A 18	Date Time 2016 0915	VI	D:		<u>VDR</u>	<u>INK</u>	WA:	1		e.	_						_	
	If necess	sary, samples	submitted to Hall Environmental may be	subcontracted to other	accredited laboratori	es. This serves as notice o	notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.																

CI	hain-c	f-Cus	tody Record	Turn-Around T	□ HAI						LL	E	NV	'IF	20	N	1EN	ITA	L		
ient:	BLAG	G ENGR.	/ BP AMERICA	☑ Standard	☐ Rush _					A	N	AL	Y	SIS	S L	A	30	RA'	TO	ZY	
				Project Name:			L				ww	w.ha	llen	viro	nme	ntal	.com	1			
lailing A	ddress:	P.O. BOX	X 87		GCU # 21	5		49	01 H	lawk	ins	NE -	Alt	uqu	erqu	ue, N	8 MI	7109			
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50)5-34	45-3	975		Fax .	505	345	-410	7			
none #:		(505) 63	2-1199									A	Anal	ysis	Rec	ques	it				
mail or F	ax#:			Project Manag	jer;					\Box		77	17	4)							
A/QC Par			Level 4 (Full Validation)		NELSON VE	LEZ	(8021B)	(Aluo	/ MRO)			(S)		PO4,50				000		le	
ccreditat	tion:			Sampler:	NELSON VE	LEZ nv	8)	(Gas	SRO,	1)	.1)	OSIN		102,	4			lance		dme	
NELAP	,	□ Other		On Ice:	Yes	□ No	1	TPH	1/0	418	504	827	S	03,1	Solit		OA)	s Ba		te s	N N
EDD (7	Type)			Sample Tempe	erature:		1	BE +	GR	pou	pou	Jor	etal	CI,N	lved	(V)	ni-V	ation	ble	posi	3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MIBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,5O4)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
12/6/16	1225	WATER	MW # 4	40 ml VOA - 2	HCI & Cool	-001	٧			Ĺ									٧		
12/6/16	1120	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-003	٧												٧		
																			-		
																			İ		
																	H		+	H	
ate.	Time: 1540 Time: 1910	Relinquishe	In VI	Received by:	Liberte 12	Date Time 12/7/14 1546 Date Time	B1 20		RECT ergy	Cour	rt, Fa			ı. NN	1 874	101	Attr	n.: Joh	n Ritc	hie	

C	hain-c	of-Cus	stody Record	Turn-Around T	Time:						AL		=	AI V	/TE	20		ME	:RET	FA:	1
Client:	BLAG	G ENGR.	/ BP AMERICA	☑ Standard	Rush													R/			
				Project Name:							ww	w.ha	allen	viro	nme	ental	.con	1			
Mailing A	ddress:	P.O. BO	X 87		GCU # 21	5		49	01 F	lawl	cins I	NE -	- Alk	ouqu	ıerqı	ue, N	MI 8	37109	9		
		BLOOM	FIELD, NM 87413	Project #:				Te	el. 50)5-3·	45-3	975	!	Fax	505	-345	-410)7			
Phone #:		(505) 63	32-1199									Į.	۱nal	ysis	Red	ques	st				
email or F	ax#:			Project Manag	jer:									~;							
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VI	ELEZ	(8021B)	only)	/ MRO)			15)		04,50							a)
Accreditat				Sampler:	NELSON VI	ELEZ 97V	8	Gas	Ω/ /		1)	SIN		02,	S			ance			힐
□ NELAP	•	□ Other		On ice:	X Yes	⊟No	1	TPH (Gas	/ DRO	418.	504.	3270		N,EC	Solids		(Y	Bak			e sa
□ EDD (1	Гуре)			Sample Temp	erature: [35			+	(GRC	po	od t	or 8	tals	Σ̈́	ved :	₹	i-VC	tions		<u>e</u>	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1702 A94	BTEX + NATE	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)	Total Dissolved	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance		Grab sample	5 pt. composite sample
2/23/17	1335	WATER	MW # 4	40 ml VOA - 2	HCl & Cool	-001	٧													٧	
	 																			\neg	
2/23/17	1240	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	-002	٧													٧	
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Date:	Time:	Relinquishe	ed by:	Received by:		Date Time	Ren	I nark	s:									1			
2/23/17	lell Time:	G() Relinquishe	la J-	Received by:	Salt "	Date / Tiple	BI	LL DI	RECT		O BP t, Fa		gton	ı, NN	1874	101	Attr	r.: Jo	hn R	litch	ie
	184	Mis	& Wate	Khey	MAal	02/24/1/	KVI	D: _		VDR	INKV	VJA:	1		<u></u>			"			

Ch Client:			/ BP AMERICA	Turn-Around	☐ Rush		•											NT/		
Mailing A	ddress:	P.O. BO	X 87	Project Name	GCU # 21	5		49	01 Ha							NM:	n 87109			
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50	5-345	-39	75	Fas	505	-34	5-410	7			
Phone #:		(505) 63	2-1199									An	alys	is Re	que	st				
email or F	ax#:			Project Manag	ger:					Ξ	T	Т	-	2	Т			-11		
QA/QC Pa			Level 4 (Full Validation)		NELSON VI	ELEZ	(80218)	s only)	/ MRO)			(5)	03	200					۰	
Accreditat	tion:			Sampler:	NELSON VI	ELEZ NY	₹ (8	(Ga	SRO.	= :	7	[8	3	4			ance		ldm	
□ NELAP	1	□ Other		On loe:	XYes	□No	1	TPH	0/0	418	504	3270	. 6	Solic		(A)	s Ba		e sa	N
□ EDD (1	ype)	_		Sample Temp	erature:	hoec	1	4 3E +	GR	po	pod	ž i	of M	ved	A	- AC	tion	9	osit	ζ,
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX MATE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	Anione (E.C.) MO. NO. BO. CO.)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance	Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
6/27/17	1/20	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-001	٧								-	-		V	-	
													1	1						
													1		1					
									_		-	1	1	1	1			_		
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									+		+	+		+	+			+		
Date:	Time:	Relinquishe	Muy	Received by: Received by:	Joseph	Date Time	100	L DII	RECTI	Y TO			ton, f	i im s	401	Att	n.: Ste	ve Ma	ikal	
Jan ja	1938	An	W W Walls mittee to Hall Environmental may be sul	all		noth ou	~											CU21		3

C	hain-d	of-Cus	stody Record	I urn-Around	I ime:									B.13.	· · ·	-	. 18. 11				
Client:	BLAG	G ENGR	. / BP AMERICA	X Standard	Rush														INT AT(_
	<u></u>			Project Name	•						ww	w.ha	aller	viro	nme	ntal	l.con	n			
Mailing A	ddress:	P.O. BO	X 87		GCU # 21	.5		49	01 F	lawk	ins	NE -	- Alk	ougu	erqi	ue. N	MI 8	3710	9		
""		BLOOM	FIELD, NM 87413	Project #:)5-3·							i-410				
Phone #:		(505) 63	32-1199	1	•									ysis		_					
email or F	ax#:			Project Manag	jer:											-					
QA/QC Pa			Level 4 (Full Validation)		NELSON VI	ELEZ	(8021B)	only)	MRO)			S)		04,504							
Accreditat	ion:			Sampler:	NELSON VI	ELEZ 97V	8	Gas	DRO /	1)	1)	NIS		0 ₂ ,P	s			nce		ļ	np[
□ NELAF)	□ Other		On Ice:	ĭ Yes		1	+ MTBE + TMPIs (8021B) + MTBE + TPH (Gas only) 8015B (GRO / DRO / MRO (Method 418.1) (Method 504.1) (8310 or 8270SIMS) A 8 Metals Ins (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,S Dissolved Solids B (VOA) (Semi-VOA) Is / Cations Balance composite sample									Sal Sal				
□ EDD (7	ype)			Sample Temp	erature: <u>る。(</u>	0]]		(GRO	7 po	po	or 8	tals	N,	ved !	ৰ	\ <u>.</u>	ions		او	osit.
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1709644	BTEX + ***	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method	PAH (8310 or	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	Total Dissolved	8260B (VOA)	8270 (Semi-VOA)	Anions / Cations Balance		Grab sample	5 pt. composite sa
9/26/17	1310	WATER	MW # 1	40 ml VOA - 2	HCl & Cool	001	V										П			v	
9/26/17	1310	WATER	MW#1	500 ml - 1	Cool	- 001									٧			V	十	√	
9/26/17	1700	WATER	MW # 2	40 ml VOA - 2	HCI & Cool	- 002	V												一	√	
9/26/17	1700	WATER	MW # 2	500 ml - 1	Cool	- OD2									٧			V	一	V	1
9/26/17	1605	WATER	MW#3	40 ml VOA - 2	HCl & Cool	- 003	٧												一	V	1
9/26/17	1605	WATER	MW#3	500 ml - 1	Cool	- 603									٧			V		v l	
9/26/17	1510	WATER	MW # 4	40 mi VOA - 2	HCl & Cool	-004	٧												\Box	V	
9/26/17	1510	WATER	MW # 4	500 ml - 1	Cool	-004									٧			٧		V	
9/26/17	1415	WATER	MW # 5	40 ml VOA - 2	HCl & Cool	- Cn5	7													V	
9/26/17	1415	WATER	MW # 5	500 ml - 1	Cool	-005									٧			٧		٧	
					,																
Date:	Time:	Relinquishe	ler ()	Received by:	alt	Date Time קליב ול 1346	The marks: Report 1, ely 1103, 504, at 100 only 101 A/C balance.														
Date:	Time: 1826	Relinquishe	Mut Walt	Received by:	dn 09	Date Time 1/78/17 0730							_						ve M		
	If necessa	ry, samples s	ubmitted to Hall Environmental may be si	ubcontracted to other	accredited laboratorie	s. This serves as notice of	this po	ossibil	ty. Ar	y sub-	contra	cted o	data w	ill be c	learly	notate	ed on f	the ana	alytical	report.	

MONITOR WELL LABORATORY QUALITY ASSURANCE / QUALITY CONTROL

Hall Environmental Analysis Laboratory, Inc.

9.7

0.50

10.00

WO#: **1501A34**

05-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBW	Batch	ID: R2	3999	F	RunNo: 2	3999				
Prep Date:	Analysis D	ate: 1/	29/2015	S	SeqNo: 7	07671	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Suilate	ND	0.50								
Sample ID LCS		ype: LC	s	Tes	tCode: EI	PA Method	300.0: Anion	s		
	SampT				tCode: El		300.0: Anion	s		
Sample ID LCS	SampT	ype: LC	3999	F		3999	300.0: Anion			
Sample ID LCS Client ID: LCSW	SampT Batch	ype: LC	3999 29/2015	F	RunNo: 2	3999			RPDLimit	Qual
Sample ID LCS Client ID: LCSW Prep Date:	SampT Batch Analysis D	ype: LC i ID: R2 ate: 1/	3999 29/2015	F	RunNo: 2: SeqNo: 7	3999 07672	Units: mg/L		RPDLimit	Qual
Sample ID LCS Client ID: LCSW Prep Date: Analyte	SampT Batch Analysis D Result	ype: LC ID: R2 ate: 1 /	3999 29/2015 SPK value	F S SPK Ref Val	RunNo: 2: SeqNo: 7: %REC	3999 07672 LowLimit	Units: mg/L HighLimit		RPDLimit	Qual

Sample ID MB	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: PBW	Batch	1D: R2	4057	F	RunNo: 2	4057				
Prep Date:	Analysis D	ate: 2/	2/2015	8	SeqNo: 7	08996	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfato	ND	0.50								

0

97.0

90

110

Sample ID LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	ID: R2	4057	F	RunNo: 2	4057				
Prep Date:	Analysis D	ate: 2/	2/2015	S	SeqNo: 7	08998	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	10	0.50	10.00	0	99.7	90	110			

Qualifiers:

Sulfate

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1501A34**

05-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: R23989 RunNo: 23989 Analysis Date: 1/29/2015 SeqNo: 707426 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 23 Surr: 4-Bromofluorobenzene 20.00 117 66.6 167

Sample ID 100NG BTEX LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	n ID: R2	3989	F	RunNo: 2	3989				
Prep Date:	Analysis D	ate: 1/	29/2015	S	SeqNo: 7	07427	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.3	80	120			
Toluene	18	1.0	20.00	0	91.7	80	120			
Ethylbenzene	19	1.0	20.00	0	92.6	80	120			
Xylenes, Total	60	2.0	60.00	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		112	66.6	167			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1501A34**

05-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-17468 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW** Batch ID: **17468** RunNo: **24014**

Prep Date: 1/29/2015 Analysis Date: 1/30/2015 SeqNo: 708058 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-17468 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 17468 RunNo: 24014

Prep Date: 1/29/2015 Analysis Date: 1/30/2015 SeqNo: 708059 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1030 20.0 1000 0 103 80 120

Qualifiers:

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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1501A34 Client Name: **BLAGG** Received by/date: 1/29/2015 8:00:00 AM Logged By: Ashley Gallego's 1/29/2015 10:59:54 AM **Ashley Gallegos** Completed By: Reviewed By: Chain of Custody Not Present Yes 🗌 1. Custody seals intact on sample bottles? No 🗔 Not Present Yes 🖈 2. Is Chain of Custody complete? 3. How was the sample delivered? **Courier** Log In NA 🗌 No 🗌 4. Was an attempt made to cool the samples? No 🗌 NA 🗀 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗆 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? Yes 🛃 No 🗌 8. Are samples (except VOA and ONG) properly preserved? NA 🗀 No 🗷 Yes 9. Was preservative added to bottles? No 🗀 No VOA Vials Yes 🖈 10. VOA vials have zero headspace? No 🏕 Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes 🐼 No 🗀 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗔 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? Checked by: No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes [] No 🗀 NA 🜌 16. Was client notified of all discrepancies with this order? Date Person Notified: eMail 🗍 Phone 📗 Fax 📋 In Person Via: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date Signed By 1.0 Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: **1502624**

23-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions PBW RunNo: 24319 Client ID: Batch ID: R24319 Analysis Date: 2/13/2015 Prep Date: SeqNo: 716676 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Fluoride ND 0.10 Chloride ND 0.50 Nitrogen, Nitrate (As N) ND 0.10 Sulfate ND 0.50

Sample ID LCS	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	n ID: R2	4319	RunNo: 24319						
Prep Date:	Analysis D	oate: 2/	13/2015	5	SeqNo: 7	16677	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.52	0.10	0.5000	0	105	90	110			
Chloride	4.7	0.50	5.000	0	94.9	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	99.1	90	110			
Sulfate	9.6	0.50	10.00	0	96.2	90	110			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1502624**

23-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW RunNo: 24332 Client ID: Batch ID: R24332 Analysis Date: 2/16/2015 Prep Date: SeqNo: 717056 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 20 20.00 101 66.6 167

Sample ID 100NG BTEX LC	CS SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSW	Batch	n ID: R2	4332	F	RunNo: 24332					
Prep Date:	Analysis D	oate: 2/	16/2015	S	SeqNo: 7	17057	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	109	80	120			
Xylenes, Total	65	2.0	60.00	0	108	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		111	66.6	167			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1502624**

23-Feb-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-17789 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 17789 RunNo: 24401

Prep Date: 2/17/2015 Analysis Date: 2/19/2015 SeqNo: 718882 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-17789 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 17789 RunNo: 24401

Prep Date: 2/17/2015 Analysis Date: 2/19/2015 SeqNo: 718883 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 0 102 80 120

Qualifiers:

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

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Hall Environmental Analysis Laborator; 4901 Hawkins NE Allhuquerque; NM 87109 TEL. 305-345-3975 FAX: 505-345-4107 Website www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order	Number: 1502624		RcptNo: 1
Received by/date: < m (2 3 1)	5		
Logged By Ashley Gallegos 2/13/2015 7:15	5:00 AM	A	
Completed By Ashley Gallegos 2/13/2015 16:2	22:27 AM	A	
Reviewed By: 05 02 315	5	4	
Chain of Custody			
1 Custody seals intact on sample bottles?	Yes	No .	Not Present V
2. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗸	No 🗆	NA 🗆
5. Were all samples received at a temperature of >0° C to 6.0)°C Yes ✓	No 🗆	NA 🗔
6. Sample(s) in proper container(s)?	Yes 🗸	No \square	
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗆	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No 🗆	1922
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗆
10, VOA vials have zero headspace?	Yes 🗹	No	No VOA Vials
11, Were any sample containers received broken?	Yes	No 🗹	# of preserved
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	bottles checked for pH:
(Note discrepancies on chain of custody)	Yes V	No 🗔	[<2 or >12 unless note Adjusted?
13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested?	Yes V	No 🗆	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗌	Checked by:
Special Handling (if applicable)			
16 Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🗸
Person Notified	Date		
By Whom:	Via: eMail	Phone Fax	In Person
Regarding:			
Client Instructions:			
17. Additional remarks:			
18. Cooler Information			V.
Cooler No Temp C Condition Seal Intact Sea 1 1.2 Good Yes	al No Seal Date	Signed By	-

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505941**

29-May-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions PBW RunNo: 26388 Client ID: Batch ID: R26388 Analysis Date: 5/22/2015 Prep Date: SeqNo: 784061 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Fluoride ND 0.10 Chloride ND 0.50 Nitrogen, Nitrate (As N) ND 0.10 Sulfate ND 0.50

Sample ID LCS	SampT	SampType: LCS				PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	Batch ID: R26388 RunNo: 26388								
Prep Date:	Analysis D	oate: 5/	22/2015	5	SeqNo: 7	84062	Units: mg/L	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.48	0.10	0.5000	0	95.9	90	110			
Chloride	4.8	0.50	5.000	0	96.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	101	90	110			
Sulfate	9.8	0.50	10.00	0	98.4	90	110			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505941**

29-May-15

Client: Blagg Engineering

Project: GCU #215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW RunNo: 26413 Client ID: Batch ID: R26413 Analysis Date: 5/26/2015 Prep Date: SeqNo: 784886 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 21 20.00 103 80 120

Sample ID 100NG BTEX LO	CSB SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	1D: R2	6413	F	RunNo: 2	6413				
Prep Date:	Analysis D	ate: 5/	26/2015	8	SeqNo: 7	84887	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	110	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	109	80	120			
Xylenes, Total	65	2.0	60.00	0	108	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		110	80	120			

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1505941

29-May-15

Client: Blagg Engineering

Project: GCU #215

Sample ID MB-19387 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 19387 RunNo: 26440

Prep Date: 5/26/2015 Analysis Date: 5/27/2015 SeqNo: 785623 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-19387 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 19387 RunNo: 26440

Prep Date: 5/26/2015 Analysis Date: 5/27/2015 SeqNo: 785624 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1010 20.0 1000 0 101 80 120

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number	1505941		RcptNo:	1
Received by/date: ATO5/2///5				
Logged By: Anne Thorne 5/21/2015 7:00:00 AM	I	anne Am	_	
Completed By: Anne Thorne 5/21/2015		an Am		
Reviewed By: 05/22/15		and Jim		
Chain of Custody				
1 Custody seals intact on sample bottles?	Yes \square	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗀	Not Present	
How was the sample delivered?	Courier			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA \square	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No 🗌		
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA \square	
10.VOA vials have zero headspace?	Yes 🗹	No 🗔	No VOA Vials	
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved	
40		No 🗆	bottles checked for pH:	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗀		>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🔽	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	· · · · · · · · · · · · · · · · · · ·
Special Handling (if applicable)				
Special Handling (if applicable) 16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🔽	
THE RESERVE OF THE PROPERTY OF				-
Person Notified: Date By Whom: Via:	l eMail	Phone Fax	In Person	
Regarding:		Thorio Tax		
Client Instructions:	,		<u> </u>	
17. Additional remarks:		·····		-
18. <u>Cooler Information</u>				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 1.0 Good Yes				

Hall Environmental Analysis Laboratory, Inc.

WO#: **1508C68**

28-Aug-15

Client: Blagg Engineering

Project: GCU # 215

Sample ID 5ML RB	SampT	SampType: MBLK			tCode: El	PA Method				
Client ID: PBW	Batch ID: a28483			F	RunNo: 2	8483				
Prep Date:	Analysis D	oate: 8/	26/2015	S	SeqNo: 8	61095	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	65	127			

Sample ID 100NG BTEX LO	CS SampT	ype: LC	s	Tes	tCode: El	EPA Method 8021B: Volatiles					
Client ID: LCSW	Batch	n ID: a2	8483	F	RunNo: 2	8483					
Prep Date:	Analysis D	ate: 8/	26/2015	S	SeqNo: 8	61096	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	20	1.0	20.00	0	98.2	80	120				
Toluene	20	1.0	20.00	0	100	80	120				
Ethylbenzene	20	1.0	20.00	0	101	80	120				
Xylenes, Total	59	2.0	60.00	0	98.0	80	120				
Surr: 4-Bromofluorobenzene	21		20.00		104	65	127				

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
- R RPD outside accepted recovery limits
- 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

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website; www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1508C68 Client Name: **BLAGG** Received by/date: 8/26/2015 7:00:00 AM Lindsav Mangin Logged By: Completed By: Lindsay Mangin 8/26/2015 10:32:10 AM 08/26/15 Reviewed By: 09 Chain of Custody Not Present No 🗌 Yes 🗌 1. Custody seals intact on sample bottles? No 🗌 Not Present Yes 🖈 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA 🗔 4. Was an attempt made to cool the samples? No 🗌 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗔 Sample(s) in proper container(s)? No 🗌 Yes 🐼 7. Sufficient sample volume for indicated test(s)? Yes 🙀 No 🗌 8. Are samples (except VOA and ONG) properly preserved? Yes NA 🗔 No 9. Was preservative added to bottles? 08/24/16 No 🗌 10. VOA vials have zero headspace? No 11. Were any sample containers received broken? Yes # of preserved bottles checked No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗔 14. Is it clear what analyses were requested? Checked by: No 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA 🛷 No 🗀 16. Was client notified of all discrepancies with this order? Person Notified: Date: Phone Fax In Person By Whom: Via: eMail Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Cooler No Temp °C Condition Seal Date Signed By Good 2.1 Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: **1512204**

10-Dec-15

Client: Blagg Engineering

Project: GCU #215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW RunNo: 30727 Client ID: Batch ID: **B30727** Analysis Date: 12/9/2015 SeqNo: 938935 Prep Date: Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 23 20.00 117 65 127

Sample ID 100NG BTEX LC	S SampT	ype: LC	s	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSW	Batch	Batch ID: B30727			RunNo: 30727					
Prep Date:	Analysis D	Date: 12	2/9/2015	S	SeqNo: 9	38936	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	80	120			
Toluene	19	1.0	20.00	0	95.9	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	59	2.0	60.00	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	28		20.00		141	65	127			S

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
- R RPD outside accepted recovery limits
- 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



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Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	1512204		RcptNo:	1
Received by/date:	12/04/15				
Logged By: Joe Archuleta	12/4/2015 8:00:00 AM		2.4		
Completed By: Joe Archuleta	12/4/2015 11:05: 21 AM		1 M		
Reviewed By:	12/04/15				
Chain of Custody	19/01/10				
1. Custody seals intact on sample bottles?		Yes 🗌	No []	Not Present 🛃	
Is Chain of Custody complete?		Yes 😿	No 🗀	Not Present []	
3. How was the sample delivered?		Courier			
l og In					
Log In4. Was an attempt made to cool the samples'	,	Yes 🖪	No 🗔	NA []	
4. Was an attempt made to cool the samples					
5. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🖟	No 🗔	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🖟	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🖟	No []		
8. Are samples (except VOA and ONG) prope		Yes 🗹	No 🗔	F:)	
9. Was preservative added to bottles?		Yes [No 🐼	NA []	
10.VOA vials have zero headspace?		Yes [No []	No VOA Vials 🖃	
11. Were any sample containers received broken	en?	Yes [□ No 🗹	# C	
11. Welle any sample containers received are				# of preserved bottles checked	
12. Does paperwork match bottle labels?		Yes 🖢	No 🗌	for pH: (<2	or >12 unless noted)
(Note discrepancies on chain of custody)	. F. Overske alice?	Yes 🗹	No [_]	Adjusted?	
13. Are matrices correctly identified on Chain of	or Custody?	Yes	a [7]		
14. Is it clear what analyses were requested?15. Were all holding times able to be met?		Yes 9	No []	Checked by:	
(If no, notify customer for authorization.)					
a del le mello de la complicable					
Special Handling (if applicable)	s this arder?	Yes [No []	NA 🔄	
16. Was client notified of all discrepancies with		163			
Person Notified:	Date:	[_] o\$4eil	Phone Fax	In Person	
By Whom:	Via:	eMail	[] Filone { _] rax	(
Regarding: Client Instructions:					
•					
17. Additional remarks:					
18. Cooler Information Cooler No Temp °C Condition	Seal Intact Seal No	Seal Dat	te Signed By	_	
1 1.3 Good	'es			1	

Hall Environmental Analysis Laboratory, Inc.

WO#: **1602A67**

01-Mar-16

Client: Blagg Engineering

Project: GCU #215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: R32443 RunNo: 32443 Prep Date: Analysis Date: 2/26/2016 SeqNo: 992135 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 21 20.00 106 65 127

Sample ID 100NG BTEX LO	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	olatiles				
Client ID: LCSW	Batch	n ID: R3	2443	F	RunNo: 3	2443						
Prep Date:	Analysis D	oate: 2/	26/2016	8	SeqNo: 9	92136	Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	18	1.0	20.00	0	90.8	80	120					
Toluene	19	1.0	20.00	0	94.9	80	120					
Ethylbenzene	19	1.0	20.00	0	95.8	80	120					
Xylenes, Total	58	2.0	60.00	0	96.5	80	120					
Surr: 4-Bromofluorobenzene	24		20.00		119	65	127					

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

R RPD outside accepted recovery limits

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

Analytical Report

Lab Order **1508C68**Date Reported: **8/28/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: MW # 4

 Project:
 GCU # 215
 Collection Date: 8/24/2015 8:05:00 AM

 Lab ID:
 1508C68-001
 Matrix: AQUEOUS
 Received Date: 8/26/2015 7:00:00 AM

Analyses	Result RL Qual Units		al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	1.2	1.0	μg/L	1	8/27/2015 2:18:13 AM	1 a28483
Toluene	ND	1.0	μg/L	1	8/27/2015 2:18:13 AM	1 a28483
Ethylbenzene	8.6	1.0	μg/L	1	8/27/2015 2:18:13 AM	1 a28483
Xylenes, Total	ND	2.0	μg/L	1	8/27/2015 2:18:13 AM	1 a28483
Surr: 4-Bromofluorobenzene	104	65-127	%REC	1	8/27/2015 2:18:13 AN	1 a28483

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

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
- R RPD outside accepted recovery limits
- 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 Page 1 of 2
- P Sample pH Not In Range
- RL Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: BLAGG Wor	k Order Number: 1602A67		RcptNo:	1
Received by/date: LM UZ/Z51/6				
Logged By: Anne Thorne 2/25/2	016 7:20:00 AM	anne Sham	_	
Completed By: Anne Thorne 2/25/2	016	anne Am	_	
Reviewed By: Q2 07/	15/16	J		
Chain of Custody	7. 4			
1. Custody seals intact on sample bottles?	Yes	No □	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗸	No 🗌	Not Present	
3. How was the sample delivered?	<u>Courier</u>			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	na 🗆	
5. Were all samples received at a temperature of >0°	C to 6.0°C Yes ✓	No 🗆	NA \square	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly prese	erved? Yes	No 🗆		
9. Was preservative added to bottles?	Yes 🗀	No 🗹	NA 🗌	
10.VOA vials have zero headspace?	Yes 🗹	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes 🗌	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗀	bottles checked for pH:	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custod	v? Yes ✔	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗸	No 🗌	Checked by:	
Special Handling (if applicable)		\Box	٠ 🗖	
16. Was client notified of all discrepancies with this orde	er? Yes	No 🗔	NA 🗹	7
Person Notified:	Date			
By Whom:	Via: eMail	Phone Fax	In Person	
Regarding:				
Client Instructions:		*		
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact 1 1.2 Good Yes	Seal No Seal Date	Signed By		
			.1	

Hall Environmental Analysis Laboratory, Inc.

WO#: **1605B98**

01-Jun-16

Client: Blagg Engineering

Project: GCU 215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: A34548 RunNo: 34548 Prep Date: Analysis Date: 5/27/2016 SeqNo: 1065532 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 23 20.00 113 87.9 146

Sample ID 100NG BTEX LC	SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch	n ID: A3	4548	F	RunNo: 3	4548				
Prep Date:	Analysis D	oate: 5/	27/2016	S	SeqNo: 1	065533	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.0	80	120			
Toluene	19	1.0	20.00	0	92.8	80	120			
Ethylbenzene	18	1.0	20.00	0	89.8	80	120			
Xylenes, Total	54	2.0	60.00	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		122	87.9	146			

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
- R RPD outside accepted recovery limits
- 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1605B98 RoptNo: 1 Received by/date: Logged By: Lindsay Mangin 5/26/2016 7:54:00 AM Completed By: Lindsay Mangin 5/26/2016 9:01:41 AM Reviewed By: AT 05/26/16 Chain of Custody 1. Custody seals intact on sample bottles? No. Not Present Y No. 2. Is Chain of Custody complete? Not Fresent 3 How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? NA Yes No Were all samples received at a temperature of >0° C to 6.0°C. No I NA . Sample(s) in proper container(s)? No . Yes V 7. Sufficient sample volume for indicated test(s)? No I 8. Are samples (except VOA and ONG) properly preserved? No. Was preservative added to bottles? No V NA Yes 10. VOA vials have zero headspace? No VOA Vials No ... 11. Were any sample containers received broken? No V # of preserved bottles checked 12 Does paperwork match bottle labels? for pH: Yes V No -(Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No 14, is it clear what analyses were requested? No Yes V 15. Were all holding times able to be met? No. Checked by: Yes V (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes _ No | NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 1.5 Good Yes

Hall Environmental Analysis Laboratory, Inc.

WO#: **1608C15**

25-Aug-16

Client: Blagg Engineering

Project: GCU 215

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: **B36734** RunNo: 36734 Prep Date: Analysis Date: 8/24/2016 SeqNo: 1138368 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 20 20.00 98.7 87.9 146

Sample ID 100NG BTEX LC	S Sampl	Type: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batcl	h ID: B3	6734	F	RunNo: 3	6734				
Prep Date:	Analysis D	Date: 8/	24/2016	S	SeqNo: 1	138369	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.8	80	120			
Toluene	19	1.0	20.00	0	94.4	80	120			
Ethylbenzene	18	1.0	20.00	0	91.9	80	120			
Xylenes, Total	54	2.0	60.00	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		101	87.9	146			

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

R RPD outside accepted recovery limits

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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Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1608C15 RoptNo: 1 Client Name: **BLAGG** Received by/date: 75/12D 8/20/2016 9:15:00 AM Logged By: Lindsay Mangin Lindsay Mangin Completed By: 8/20/2016 11:58:25 AM 08/23/16 Reviewed By: Chain of Custody No 🗀 Not Present 1. Custody seals intact on sample bottles? No 🗀 Yes 🗭 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗔 NA 🗌 4. Was an attempt made to cool the samples? No 🗌 NA 🗔 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? Yes 🕏 8. Are samples (except VOA and ONG) properly preserved? Nο NA 🔲 Yes No 🛷 9. Was preservative added to bottles? No 🗌 No VOA Vials 10.VOA vials have zero headspace? No 🏕 Yes 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 Yes 🕏 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗀 13 Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA 🐼 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Cooler No Temp °C Condition Seal Date Signed By

3.8

Yes

Good

Hall Environmental Analysis Laboratory, Inc.

WO#: **1612461**

12-Dec-16

Client: Blagg Engineering

Project: GCU 215

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: **B39284** RunNo: 39284 Prep Date: Analysis Date: 12/9/2016 SeqNo: 1229721 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 19 20.00 96.4 80 120

Sample ID 100NG BTEX LC	CSB SampT	ype: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batch	1D: B3	9284	R	RunNo: 3	9284				
Prep Date:	Analysis D	ate: 12	2/9/2016	S	SeqNo: 1	229722	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	114	80	120			
Toluene	22	1.0	20.00	0	112	80	120			
Ethylbenzene	22	1.0	20.00	0	108	80	120			
Xylenes, Total	62	2.0	60.00	0	103	80	120			
Surr: 4-Bromofluorobenzene	20		20.00		100	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
- R RPD outside accepted recovery limits
- 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



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1612461 **BLAGG** Client Name: Received by/date 12/8/2016 8:10:00 AM Ashley Gallegos Logged By: 12/8/2016 1:48:03 PM Ashley Gallegos Completed By: Reviewed By: Chain of Custody Not Present ▼ Νo Yes 1 Custody seals intact on sample bottles? Not Present Νo Yes 🗸 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA No Yes 4. Was an attempt made to cool the samples? NA 5. Were all samples received at a temperature of >0° C to 6.0°C No No 6. Sample(s) in proper container(s)? No Yes 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? NΑ No Yes 9. Was preservative added to bottles? No VOA Vials No 10.VOA vials have zero headspace? No 11. Were any sample containers received broken? Yes # of preserved bottles checked for pH: No 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? Checked by: Νo 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V No 16. Was client notified of all discrepancies with this order? Yes Date Person Notified: In Person Via: eMail Phone Fax By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Signed By Seal Date 1.1 Good

Hall Environmental Analysis Laboratory, Inc.

WO#: **1702A94**

03-Mar-17

Client: Blagg Engineering

Project: GCU 215

Sample ID rb SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List PBW Client ID: Batch ID: **B41093** RunNo: 41093 Prep Date: Analysis Date: 3/1/2017 SeqNo: 1287202 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 ND Toluene 1.0 ND Ethylbenzene 1.0 Xylenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 11 10.00 112 70 130 Surr: 4-Bromofluorobenzene 9.1 10.00 91.4 70 130 Surr: Dibromofluoromethane 11 10.00 108 70 130 70 Surr: Toluene-d8 9.9 10.00 99.2 130

Sample ID 100ng Ics	SampT	ype: LC	S	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch	n ID: B4	1093	F	RunNo: 4	1093				
Prep Date:	Analysis D	oate: 3/	1/2017	9	SeqNo: 1	287203	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	98.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		102	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		97.4	70	130			
Surr: Dibromofluoromethane	10		10.00		99.8	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

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Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: 1702A94 RcptNo: 1 Received by/date: (Logged By: Ashley Gallegos 2/24/2017 8:08:00 AM Completed By: **Ashley Gallegos** 2/24/2017 9:09:34 AM Reviewed By: Chain of Custody No [.] 1. Custody seals intact on sample bottles? Yes Not Present 2. Is Chain of Custody complete? Yes 🗸 No 🗀 Not Present 3. How was the sample delivered? <u>Courier</u> Log In 4. Was an attempt made to cool the samples? No 🛄 NA 🗀 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗀 NA 🗌 Yes 🗸 Sample(s) in proper container(s)? No 🗍 Yes 🔽 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗀 8. Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 🗀 9. Was preservative added to bottles? Yes 🗌 No 🗸 NA 🔲 10. VOA vials have zero headspace? Yes 🗸 No 🗔 No VOA Vials 11. Were any sample containers received broken? Yes 🗔 No 🗹 # of preserved bottles checked 12. Does paperwork match bottle labels? No [for pH: Yes 🔽 (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 13. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 14. Is it clear what analyses were requested? Yes 🗸 No 🗔 15. Were all holding times able to be met? Yes 🗹 Checked by: No [(If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes 🗌 No 🗔 NA 🔽 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No | Seal Date

Hall Environmental Analysis Laboratory, Inc.

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WO#: **1706F13**

03-Jul-17

Client: Blagg Engineering

Project: GCU 215

Sample ID rb	SampType: MBLK TestCode: EPA Method 8260: Volatiles Short List									
Client ID: PBW	Batch	ID: A 4	3907	R	RunNo: 4	3907				
Prep Date:	Analysis Da	ate: 6/	/29/2017	S	SeqNo: 1	384011	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		105	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			
Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: E	PA Method	8260: Volatil	es Short L	ist	
Client ID: LCSW	Batch	ID: A 4	3907	R	RunNo: 4	3907				
Prep Date:	Analysis Da	ate: 6/	/29/2017	S	SeqNo: 1	384012	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		105	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.4		10.00		94.4	70	130			
Sample ID rb	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8260: Volatil	es Short L	.ist	
Client ID: PBW	Batch	ID: B 4	13928	R	RunNo: 4	3928				
Prep Date:	Analysis Da	ate: 6 /	/30/2017	S	SeqNo: 1	385538	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Foluene	ND	1.0								
Ethylbenzene	ND	1.0								
Kylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			

Sample ID 100ng lcs	SampT	ype: LC	s	Tes	tCode: El	EPA Method 8260: Volatiles Short List					
Client ID: LCSW	Batch	n ID: B4	3928	F	RunNo: 4	3928					
Prep Date:	Analysis D	ate: 6/	30/2017	8	SeqNo: 1	385539	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	21	1.0	20.00	0	105	70	130				
Toluene	20	1.0	20.00	0	100	70	130				
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130				
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130				
Surr: Dibromofluoromethane	9.6		10.00		96.4	70	130				
Surr: Toluene-d8	9.5		10.00		94.9	70	130				

10.00

10.00

10.00

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- 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

107

99.1

99.6

70

70

70

130

130

130

- 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 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	BLAGG	Work Order Number:	1706F13		RcptNo:	1
Received By:	Andy Jansson	6/28/2017 8:00:00 AM		only more		
Completed By:	Sophia Campuzano	6/28/2017 2:32:15 PM		Joshu Joyan-		
Reviewed By:	IO	6/28/17				
Chain of Cus	stody					
1. Custody sea	als intact on sample bottles?	•	Yes 🗌	No 🗆	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
4. Was an atte	empt made to cool the samp	ples?	Yes 🗹	No 🗆	NA \square	
5. Were all sai	mples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	ample volume for indicated t	est(s)?	Yes 🗹	No 🗆		
8. Are samples	s (except VOA and ONG) pr	operly preserved?	Yes 🗹	No 🗆		
9. Was presen	vative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
10.VOA vials h	ave zero headspace?		Yes 💆	No 🗆	No VOA Vials	
11. Were any s	ample containers received	oroken?	Yes 🗌	No 🗹	# of preserved	
	work match bottle labels?	Α.	Yes 🗸	No 🗆	bottles checked for pH:	or >12 unless noted)
•	pancies on chain of custod s correctly identified on Cha		Yes 🔽	No □	Adjusted?	n - 12 diliess ficted)
	nat analyses were requester		Yes 🗹	No 🗆	•	
15. Were all hol	lding times able to be met? customer for authorization.		Yes 🗹	No 🗔	Checked by:	
Special Hand	dling (if applicable)					
	notified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🗹	
Perso	n Notified:	Date	· ·			
By Wi	hom:	Via: [eMail	Phone 🗌 Fax	In Person	
Regar	ding:			<u>p. 11. 12. 12. 12. 12. 12. 12. 12. 12. 12</u>		
Client	Instructions:					
17. Additional r	remarks:					
18. <u>Cooler Info</u> Cooler N	1 1	Seal Intact Seal No :	Seal Date	Signed By		

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709G44**

11-Oct-17

Client: Blagg Engineering

Project: GCU 215

Sample ID MB	SampType: mblk			Tes	tCode: E	3				
Client ID: PBW	Batch	ID: R4	6083	F	RunNo: 4	6083				
Prep Date:	Analysis D	ate: 10)/3/2017	5	SeqNo: 1	465943	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Sample ID LCS	SampT	ype: Ics	.	Tes	tCode: E	PA Method	300.0: Anions	5		
Client ID: LCSW	Batch	ID: R4	6083	F	RunNo: 4	6083				
Prep Date:	Analysis D	ate: 10)/3/2017	5	SeqNo: 1	465944	Units: mg/L			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.54	0.10	0.5000	0	107	90	110			
Chloride	4.9	0.50	5.000	0	98.8	90	110			
Nitrogen, Nitrite (As N)	1.0	0.10	1.000	0	101	90	110			
Nitrogen, Nitrate (As N)	2.6	0.10	2.500	0	104	90	110			
Sulfate	10	0.50	10.00	0	102	90	110			
Sample ID MB	Sampl	vpe: m b	olk	Tes	tCode: El	PA Method	300.0: Anion	ıs		

Sample ID MB	SampTy	/pe: m b	olk	Tes	tCode: El	PA Method	300.0: Anions	5		
Client ID: PBW	Batch	ID: R4	6093	R	RunNo: 4	6093				
Prep Date:	Analysis Da	ate: 10	0/4/2017	S	SeqNo: 1	467787	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50		_						

Sample ID LCS	SampType	: Ics	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch ID	: R46093	F	RunNo: 4	6093				
Prep Date:	Analysis Date	10/4/2017	S	SeqNo: 1467788 Units: mg					
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	99 (0.50 10.00	0	99.0	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

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709G44**

11-Oct-17

Client: Blagg Engineering

Project: GCU 215

Sample ID RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBW Client ID: Batch ID: **B46025** RunNo: 46025 Analysis Date: 10/2/2017 Prep Date: SeqNo: 1463598 Units: µg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 1.0 Toluene ND 1.0 Ethylbenzene ND 1.0 ND Xylenes, Total 2.0 Surr: 4-Bromofluorobenzene 23 20.00 116 72.5 140

Sample ID 100NG BTEX LC	Samp	Гуре: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batc	Batch ID: B46025			RunNo: 46025					
Prep Date:	Analysis [Date: 10	0/2/2017	S	SeqNo: 1	463599	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	92.5	71.7	126			
Toluene	19	1.0	20.00	0	93.1	73.3	119			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	62	2.0	60.00	0	104	80	120			
Surr: 4-Bromofluorobenzene	24		20.00		118	72.5	140			

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 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **1709G44**

11-Oct-17

Client: Blagg Engineering

Project: GCU 215

Sample ID MB-34165 SampType: MBLK TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: PBW Batch ID: 34165 RunNo: 46052

Prep Date: 10/1/2017 Analysis Date: 10/3/2017 SeqNo: 1464423 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids ND 20.0

Sample ID LCS-34165 SampType: LCS TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Batch ID: 34165 RunNo: 46052

Prep Date: 10/1/2017 Analysis Date: 10/3/2017 SeqNo: 1464424 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Total Dissolved Solids 1020 20.0 1000 0 102 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

Page 8 of 8



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

Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	1709G44		RcptNo: 1		
Received By: Sophia Campuzano	9/28/2017 7:30:00 AM		Sophia Ergan	·-		
Completed By: Michelle Garcia 9/29/2017 8:17:57 Al			41 febillo Gjav			
Chain of Custody						
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present 🗹			
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present			
3. How was the sample delivered?	Courier					
<u>Log In</u>						
4. Was an attempt made to cool the sample	Yes 🗹	No 🗆	na 🗆			
5. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🔽	No 🗆	NA 🗀		
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌				
7. Sufficient sample volume for indicated te	Yes 🗹	No 🗆				
8. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌			
9. Was preservative added to bottles?		Yes	No 🗹	na 🗆		
10.VOA vials have zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹		
11. Were any sample containers received by	Yes	No 🗹	# of preserved			
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	bottles checked for pH:	or >12 unless noted)		
13. Are matrices correctly identified on Chair		Yes 🗹	No 🗆	Adjusted?	yes	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆				
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗌	Checked by:	בממ		
Special Handling (if applicable)						
16. Was client notified of all discrepancies w	th this order?	Yes 🗆	No 🗀	NA 🗹	٦	
Person Notified:	Date					
By Whom: Regarding:	Via:	_ eMail	Phone Fax	In Person		
Client Instructions:						
17. Additional remarks: Poured of	F from 170°	7644	01-05	3 to 01-	U5C.	
18. Cooler Information		[1 1		_		
Cooler No Temp °C Condition	Seal Intact Seal No S	Seal Date	Signed By			
1 3.6 Good	Yes	\$ 1 m				