~

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5	S	anta F	Fe, NM 875	505						
	-		Rel	ease Notifi	catio	on and Co	orrective A	ction	1				
						OPERA '	TOR		🔲 Initia	al Report	\boxtimes	Final Repor	
Name of Co	ompany: B	P				Contact: Jef	f Peace						
Address: 20	0 Energy	Court, Farm	ington, N	IM 87401		Telephone 1	No.: 505-326-94	479					
Facility Nat	ne: Muage	e Gas Com L	<u> </u>			Facility Typ	be: Natural gas v	well	<u></u>				
Surface Ow	ner: Feder	al		Mineral (Owner:	Federal			API No	. 30045280	526	-	
				LOC	ATIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North	h/South Line	Feet from the	East/V	Vest Line	County: S	an Juan		
В	12	31N	11W	920	Nortl	h	1,670	East					
	l	I	I				L	<u> </u>		i			
		Latit	ude36	.917480		Longitud	e107.937850		<u> </u>				
				NAT	TURE	OF REL	EASE						
Type of Rele	ase: conder	isate/oil				Volume of	Release: unknow	vn	Volume I	Recovered: r	ione		
Source of Re.	lease: unkn	own - historic	al			Date and F	lour of Occurrenc	ce:	Date and 2014 10	Hour of Dis 30 AM	covery:	April 1,	
Was Immedia	ate Notice (Given?				If YES, To	Whom?		2014, 10.	50 / 110			
			Yes [] No 🛛 Not R	equired	1							
By Whom?						Date and F	lour:						
Was a Watero	course Read	ched?	Yes 🕅	1 No		If YES, Vo	olume Impacting f	the Wate	ercourse.				
10 11/-				*						<u>CVD APR</u>	<u>16'1</u>	đ	
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	T.						UL CUN	i. DIV	р При 1	
	. <u></u>									DIST	. 3		
impacted soil Describe Area	was found	and Cleanup /	eared to b	e historic, possib	ly from	a former earth	en pit. Impacted	soil was	bedrock, v	and remove	:d. ' to 6' b	elow the	
surface. Soil analysis for a hauled to the	was scrape 10-point co IEI landfar	d from the top omposite soil m for treatmen	o of the sa sample aff nt. The si	ndstone and then ter excavation and te will be reclaim	hydrog d treatm ed and	en peroxide wa nent resulted in seeded.	as applied to the s 68 ppm TPH. A	surface b pproxim	efore back hately147 c	filling with o ubic yards w	ilean so iere exc	oil. Lab cavated and	
I hereby certific regulations all public health should their of or the environ federal, state,	fy that the i l operators or the envir perations h ment. In a or local lay	nformation gi are required t ronment. The ave failed to a ddition, NMC ws and/or regu	ven above o report an acceptanc adequately OCD accep ilations.	e is true and comp nd/or file certain r ce of a C-141 rep v investigate and r otance of a C-141	olete to release r ort by th remedia report o	the best of my notifications an ne NMOCD m ite contaminati does not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of	inderstar ctive acti eport" d eat to gr responsi	nd that purs ons for rele oes not reli ound water bility for co	uant to NM0 eases which eve the oper , surface wa ompliance w	OCD ru may en ator of ter, hur vith any	iles and danger liability nan health other	
		\cap			_		OIL CON	SERV	ATION	DIVISIG	承		
Signature:	(all	Vares									/	\mathcal{A}	
120 S SJ. France DF., Sama Fe, NM 87505 Release Notification and Corrective Action OPERATOR Initial Report Initia Report Initian Report Initial Report Initial Report In		in /											
Printed Name	: Jeff Peace	<u> </u>							$- \leftarrow$	\supset			
Title: Area Er	vironment	al Advisor				Approval Dat	e: 4/21/14		Expiration I	Date:			
E-mail Addre	ss: peace.je	effrey@bp.coi	n			Conditions of	Approval:	·	Attached				
Date: April 1	5, 2014		Phone: 5	05-326-9479						<u> </u>			
Attach Addit	ional Shee	ets If Necess	ary		-	Incident	+# N	(SI	411 11	502	79		

BP BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 AP #: 30-045-28626 THELD REPORT: Reter on: BOTOMPRATION / RELAXE INSTITUTION, IOT PROVIDED, NM 87413 PAGE #:			
FIELD REPORT: (end-one): BUT ON PRANTING / RELEASE INSTRUMENT (OTHER) PROCE #:	CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	3 API # <u>30-045-28626</u> TANK ID (if applicble):
SITE INFORMATION: STEWME: MUDGE G.C. D.1 DRESTRIED 4-3-2014 QUADUAR B. SEC. (2. TWP. 31N) RNG. (W. PML AM. CONTR. SJ. SE. ALM. DRESTRIED 4-3-2014 Mailandorace LEASE # PROD FORMATION. PLA CONTRACTOR F. PM. (MEL) DRESTRIED 4-3-2014 LEASE # PROD FORMATION. PLA CONTRACTOR F. PM. (MEL) DRESTRIED 4-3-2014 STERME PROD FORMATION. PLA CONTRACTOR F. PM. (MEL) DRESTRIED 4-3-2014 LEASE # PROD FORMATION. PLA CONTRACTOR F. PM. (MEL) DRESTRIED 4-3-2014 LEASE # PROD FORMATION. PLA CONTRACTOR F. PM. (MEL) DRESTRIED 4-3-2014 JEASE TO CONT. GRE CORD. GRE CORD. DRESTRIED DRESTRIED DRESTRIED J.M.PACT CENTER GRE CORD. DRESTRIED DRESTR	FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION (OTHER:) REMEDIATION SAMPLING	PAGE # of
QUADUNT B SEC /2 TWA TWA PARK MM CMTY ST DITERNISED DITERNISED HATAGOTAGE LEASE PROJ FORMATION. PARK MM CMTY ST DITERNISED DITERNISED MATAGOTAGE LEASE PROJ FORMATION. PARK MARK MARK DITERNISED JATAGOTAGE LEASE PROJ FORMATION. PARK MARK MARK DITERNISED JATAGOTAGE DITERNISED DITERNISED JATAGOTAGE DITERNISED JATAGOTAGE DITERNISED	SITE INFORMATION	STENAME: MUDGE GC D 1	DATE STARTED: 4-3-2014
LA-IMPEGOTAGE LEASE TYPE (EDEPAD) STATE / FEE / INDAN LEASE # PROD FORMATION: PA CONTRACTOR F +/M (MEL) SPECIALISTIC: JCE REFERENCE POINT: WELLHEAD (MH) GRECORD: 107.9326.55 GELEX: 607.1 1 J.M.PACT CENTER GER CORD: DSIMULATION: PARCE 2 GER CORD: DSIMULATION: CENTER DSIMULATION: PARCE 3 GER CORD: DSIMULATION: CENTER DSIMULATION: PARCE 4 OPE COND: DSIMULATION: DSIMULATION: PARCE DSIMULATION: 5 GER CORD: DSIMULATION: DSIMULATION: <td< td=""><td>QUAD/UNIT: B SEC: 12 TWP:</td><td>31N RNG 11W PM NM CNTY ST ST N</td><td>1M DATE EMSLED 4-3-2014</td></td<>	QUAD/UNIT: B SEC: 12 TWP:	31N RNG 11W PM NM CNTY ST ST N	1M DATE EMSLED 4-3-2014
LEASE # PROD FORMATION: P A CONTRACTOR F +M (MSL) PROJUNT: REFERENCE POINT: WELLHEAD (WH) OPS COORD: 36.9(1759 × 107.933355 GLEEV: 607.11 1 J.M.PACT CEATEE orse coord: 36.9(1759 × 107.933355 GLEEV: 607.11 2 GPS COORD: J.M.PACT CEATEE orse coord: J.M.PACT DEMOCERANGEMENT: 120' \$33314/ 3 GPS COORD: J.M.PACT DEMOCERANGEMENT: 120' \$3334/ DEMOCERANGEMENT: 120' \$33314/ 3 GPS COORD: DEMOCERANGEMENT: DEMOCERANGEMENT: 120' \$3334/ DEMOCERANGEMENT: 120' \$13321/ 3 SAMPLET: DEMOCERANGEMENT: DEMOCERANGEMENT: 120' \$13321/ 22' \$2' \$2' \$2' \$2' \$2' \$2' \$2' \$2' \$2'	1/4 -1/4/FOOTAGE:	LEASE TYPE: (FEDERALY STATE / FEE / IND	
REFERENCE POINT: WeLL HEAD (WH) GPS COORD: 36.9(17.59 × 107.938355 CLELEV: 607(LEASE #	ROD FORMATION: PXA CONTRACTOR F+M (MEL)	SPECIALIST(S): JCB
Image: Second State Sta	REFERENCE POINT	MELL HEAD (MH) GPS COOPD: 36 91759 + 107	93355 GEEV: 6071
0 0	N IMPACT CENTER	GPS COOPD: 36.91756 × 107.93898	STANCEREADING EDUMANIE 120' 588 W
3)	2)	GPS COORD :	
A OPS COORD: DISTINGERRANDISTRANCIAL SAMPLING DATA: OWN OF CUETODY RECORDS # OR LAB USED. HALL #Connection 1) SAVELETD: DETERMINE THE CONSTRUCT AND CUETODY RECORDS # OR LAB USED. HALL #Connection 2) SAVELETD: DETERMINE THE CONSTRUCT AND CUETODY RECORDS # OR LAB USED. HALL #Connection 3) SAVELETD: DEVELOP: DEVELOP: DEVELOP: 22 3) SAVELETD: DEVELOP: DEVELOP: DEVELOP: DEVELOP: SOIL COLOR: Life (Signer Particip): DEVELOP: DEVELOP: DEVELOP: SOIL COLOR: Life (Signer Particip): DEVELOP: DEVELOP: DEVELOP: SOIL COLOR: Life (Signer Particip): DEVELOP: DEVELOP: DEVELOP: DEVELOP: SOIL COLOR: Color: DEVELOP: DEVELOP: DEVELoP:	3)		
SAMPLING DATA: OHIN OF CUSTODY RECORDS & OR LAB USED: HALL TPH//STEX/CL Provide and the provided of	4)	GPS COORD: 714	STANCE/BEARING FROM WH
	SAMPLING DATA	CHAIN OF CUSTODY RECORD(S) # OR LAB USED:	OVM READING
0 SAMPLE DC SAMPLE DC <td>AND ENT IN- DT. CANDO</td> <td>Pah share A-3-2014 summerse 1920 unin</td> <td>TOH BEEN /CI 27</td>	AND ENT IN- DT. CANDO	Pah share A-3-2014 summerse 1920 unin	TOH BEEN /CI 27
2) SMAPLE ID: SMAPLE ID	1) SAMPLE ID: 10 - C COUPCI		
OF SAMPLE DE SAMPLE DE SAMPLE DE USAMUES 4) SAMPLE DE SAMPLE DE SAMPLE DE USAMUES SOIL DESCRIPTION: Soil TYPE SAND/SILTS SAND/	3) SAMPLE ID:		
SOUL DESCRIPTION: SOL THE SAND/SLT/SALT/CAY/CAY/GRAVE/OTER SAND/ST/AE SOL COLOR: Lite G-ASU SOL CONSISTERCY (MOLORESVE SOLS): LOSS INFORMUTED SOLF SAMPLE TYPE: GRAP COMPOSITE # OF PTS. SOL COMPOSITE: # OF PTS. SOLE OF ARELAS COMPOSITE: # OF PTS. SOLE IMPACT DIMENSION ESTIMATION:	4) SAMPLE ID:	SAMPLE FOR SAMPLE THE	
SOLID DESCRIPTION Solit TYPE SAND SLITY SA			
SOLCOLOR: Life Grav Description of such as s	SOIL DESCRIPTION	SOIL TYPE: SAND/SILTY SAND/SILT/SILTY CLAY/CLAY/GRAVEL/OTHER	SANDSTUNE/CLAPSTONE
COUPAENT SET OVER RECLAIMEDAREA YES (D) EXPLANATION- OTHER: APPLY 4. gol H 202 to SAUNS KIVE BASE Follow'S ExcavAtion Estimation (cube Yards): 2001 SOIL IMPACT DIMENSION ESTIMATION: 32 fr. X 26 fr. X 3 fr. EXCAVATION ESTIMATION (cube Yards): 2001 DEPTH TO GROUNDWATER > 100 NEAREST WATER SOURCE > 400 NEAREST SURFACE WATER > 100 NMOOD TPH CLOSURE STD: 1,000 ppm SITE SKETCH BGT Located : off / on site PLOT PLAN circle: attached MM CALIB READ: 100 GPM DATE 4/3/14 MISCELL. NOTES WO: PX A PX A PX A PX A MISCELL. NOTES WO: PD #: PK: 2FE I R K 0 S T SE OD Appr. date(s): OD Appr. date(s): DEST Sidewalls Visible: Y / N BGT Sidewalls Vis	DISCOLORATION/STAINING OBSERVED: (19) NO SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVED	ANY AREAS DISPLAYING WETNESS: YES (IN EXPLANATION - <u>GRAY STREAKING</u> S: LOST INTEGRITY OF EQUIPMENT: YES (NO EXPLANATION - <u>His torg</u>) AND/OR OCCURRED: (ES) NO EXPLANATION: <u>COLUM/OS OR</u>	CAL RELEAS #
$APPLY + gal + 2O_2 + 55 5 A M S EMPLE FOllowis Excention.$ Solic IMPACT DIMENSION ESTIMATION: 32_ ft X _ 26 ft X _ 3 ft Excendention. ESTIMATION (Cubic Yards): 200 ft Solic IMPACT DIMENSION ESTIMATION: 32_ ft X _ 26 ft X _ 3 ft Excendention. ESTIMATION (Cubic Yards): 200 ft DEPTH TO GROUNDWATER > 100 MEAREST WATER SOURCE > 900 MEAREST SURFACE WATER > 1000 MMCALLB READ = 100.6 pm BGT Located : off / on site PLOT PLAN circle: attached OM CALLB READ = 100.6 pm MISCELL. NOTES WO: PO ft: PX A PX A PX A PX A PX A PM ARKER. 000 MISCELL: NOTES WO: PO ft: PO ft: PM = 05 Sidewalls Visible: Y I N BGT Sidewalls Visi	EQUIPMENT SET OVER RECLAIMED AREA:)	ES (DEXPLANATION-	
SOIL IMPACT DIMENSION ESTIMATION: <u>32</u> fr. X <u>26</u> fr. X <u>3</u> fr. ÉXCAVATION ESTIMATION (Cubic Yards): <u>200 f</u> DEPTH TO GROUNDWATER <u>> 100</u> NEAREST WATER SOURCE: <u>> 900</u> NEAREST SURFACE WATER <u>> 1000</u> NMOOD TPH CLOSURE STD: <u>1,000</u> ppm SITE SKETCH BGT Located : off / on site PLOT PLAN circle: attached OMEALB READ: <u>100,6 pm</u> <u>RF:0.52</u> OMEALB RAS: <u>100</u> pm DATE <u>4/3/14</u> N N N N N N N N N N N N N	APPLE 4,90	1 HZUZ TO SALWSIDNE BASE FOllowing ExCL	WATION.
$\frac{\text{CEPTH TO GROUNDWATER } \ge 100}{\text{SITE SKETCH}} \text{BGT Located : off / on site} PLOT PLAN \ \text{circle: attached}} \text{OMCALB READ = } \frac{100}{100} \text{gm}} \frac{100}{\text{RF-0.52}} \text{GMCALB READ = } \frac{100}{100} \text{gm}} \frac{100}{\text{RF-0.52}} \frac{100}{100} \text{gm}} \frac{100}{\text{RF-0.52}} \frac{100}{100} \frac{100}{\text{RF-0.52}} \frac{100}{100} \frac{100}{10} $	SOIL IMPACT DIMENSION ESTIMATION:	32_ ft. X 23 ft. X 3_ ft. EXCAVATION	ESTIMATION (Cubic Yards) : 200 ±
SITE SKETCH BGT Located : off / on site $PLOT PLAN \ circle: attached OM CALLB READ = 100.6 mm MR = 0710 mm DATE 4/3/14 MISCELL. NOTES WO: PO #: PK: 21 C I R K 0 S T S PJ #: Permit date(s): OCD Appr. date(s): CCD Appr. date(s): OCD Appr. date(s): CCD Appr. date(s): DGT Sidewalls Visible: Y / N BGT Sidewalls Vi$	DEPTH TO GROUNDWATER > 100 NE	AREST WATER SOURCE: > 900 NEAREST SURFACE WATER: > 1000	MMOCD TPH CLOSURE STD: 1,000 ppm
$\frac{32}{28}$ 32	SITE SKETCH	GT Located : off / on site PLOT PLAN circle: attach	$\begin{array}{c} \hline \textbf{OVM CALIB. READ.} = \underline{100.6} \text{ pm} \\ \hline \textbf{RF=0.52} \\ \hline \textbf{OVM CALIB. GAS} = \underline{100} \text{ pm} \\ \hline \textbf{TME} \underline{0710} \text{ cm} \\ \hline \textbf{DME} \text{ DATE } \underline{4/3/14} \\ \hline \textbf{MESCELL NOTES} \end{array}$
OCD Appr. date(s): Image: Solution of the second state of the	2.8	PXA 	WO: PO#: PK: ZFEIRKOSTS PJ#: Permit date(s):
T.B. = TANK BOTTON; PBGTL = PREMOUS BÉLOW GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA-NOT Magnetic declination: 10° E	NOTES: BGT = BELOW GRADE TANK: ED. = EXCAVATIO	IDEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE ~= APPROX; W.H. = W.E.I. HE	OCD Appr. date(s): Tank OVM = Organic Vapor Meter PD ppm = parts per million BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N
NOTES: U/2/2014	TB. = TANK BOTTOM; PBGTL = PREMOUS BELC APPLICABLE OR NOT AVAILABLE SW-SINGLE	NGRADE TANK LOCATION, SPD = SAMPLE POINT DESIGNATION, R.W. = RETAINING WALL; KA- NOT AALL: DW-DOUBLE WALL: SB-SINGLE BOTTOM, DB-DOUBLE BOTTOM	Magnetic declination: 10° E

revised: 11/26/13

L

.

l

BEI1005E-6.SKF

. .

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

April 11, 2014

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

RE: Mudge GC D 1

OrderNo.: 1404206

Dear Jeff Blagg:

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

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

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

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

Sincerely,

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1404206 Date Reported: 4/11/2014

Hall Environmental Analysis Laboratory, Inc.

.

-

Lab ID:

CLIENT: Blagg Engineering

1404206-001

Project: Mudge GC D 1

Client Sample ID: 10-pt Comp @ 6' Collection Date: 4/3/2014 9:20:00 AM

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

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	68	9.8	mg/Kg	1	4/7/2014 4:53:44 PM	12545
Surr: DNOP	77.4	66-131	%REC	1	4/7/2014 4:53:44 PM	12545
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/7/2014 12:40:46 PM	12550
Surr: BFB	105	74.5-129	%REC	1	4/7/2014 12:40:46 PM	12550
EPA METHOD 8021B: VOLATILES					Analys	NSB
Benzene	ND	0.047	mg/Kg	1	4/7/2014 12:40:46 PM	12550
Toluene	ND	0.047	mg/Kg	1	4/7/2014 12:40:46 PM	12550
Ethylbenzene	ND	0.047	mg/Kg	1	4/7/2014 12:40:46 PM	12550
Xylenes, Total	ND	0.094	mg/Kg	1	4/7/2014 12:40:46 PM	12550
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	4/7/2014 12:40:46 PM	12550
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	110	30	mg/Kg	20	4/8/2014 12:21:51 AM	12578

Matrix: SOIL

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 5
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 450 1 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Client:Blagg EngineeringProject:Mudge GC D 1

-

Sample ID MB-12578	SampType: MBLK Batch ID: 12578	TestCode: EPA Method RunNo: 17852	300.0: Anions	
Prep Date: 4/7/2014	Analysis Date: 4/7/2014	SeqNo: 514831	Units: mg/Kg	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-12578	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-12578 Client ID: LCSS	SampType: LCS Batch ID: 12578	TestCode: EPA Method RunNo: 17852	300.0: Anions	
Sample ID LCS-12578 Client ID: LCSS Prep Date: 4/7/2014	SampType: LCS Batch ID: 12578 Analysis Date: 4/7/2014	TestCode: EPA Method RunNo: 17852 SeqNo: 514832	Units: mg/Kg	
Sample ID LCS-12578 Client ID: LCSS Prep Date: 4/7/2014 Analyte	SampType: LCS Batch ID: 12578 Analysis Date: 4/7/2014 Result PQL SPK valu	TestCode: EPA Method RunNo: 17852 SeqNo: 514832 e SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %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

Page 2 of 5

1404206 *11-Apr-14*

WO#:

,

WO#: 1404206

11-Apr-14

-

Client:	Blagg	; Engineering								
Project:	Mudg	e GC D 1					<u></u>			
Sample ID	MB-12545	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Diese	l Range (Drganics	
Client ID:	PBS	Batch ID:	12545	F	RunNo: 1	7793				
Prep Date:	4/4/2014	Analysis Date:	4/4/2014	5	SeqNo: 5	13063	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10							
Surr: DNOP		7.4	10.00		74.3	66	131			
Sample ID	LCS-12545	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Diese	l Range C	Organics	
Client ID:	LCSS	Batch ID:	12545	F	RunNo: 1	7793				
Prep Date:	4/4/2014	Analysis Date:	4/4/2014	S	SeqNo: 5	13064	Units: mg/K	g		
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	46	10 50.00	0	92.5	60.8	145			
Surr: DNOP	· · · · · · · · · · · · · · · · · · ·	3.8	5.000		75.3	66	131			
Sample ID	MB-12557	SampType:	MBLK	Tes	tCode: El	PA Method	8015D: Diese	l Range C	Organics	
Client ID:	PBS	Batch ID:	12557	ਜ	RunNo: 1	7845				
Prep Date:	4/7/2014	Analysis Date:	4/8/2014	S	SeqNo: 5	14590	Units: %REC	2		
Analyte		Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		7.4	10.00		74.0	66	131			
Sample ID	LCS-12557	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Diese	l Range C	Drganics	·
Client ID:	LCSS	Batch ID:	12557	ਸ	RunNo: 1	7845				
Prep Date:	4/7/2014	Analysis Date:	4/8/2014	S	SeqNo: 5	14592	Units: %REC			
Analyte		Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.9	5.000		78.4	66	131			

Qualifiers:

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

Page 3 of 5

-

WO#: 1404206

11-Apr-14

Client: Blagg Engineering Mudge GC D 1 **Project:** Sample ID MB-12550 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 12550 RunNo: 17826 Prep Date: 4/4/2014 Analysis Date: 4/7/2014 SeqNo: 514468 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 860 1000 86.2 74.5 129 Sample ID LCS-12550 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 12550 RunNo: 17826 Analysis Date: 4/7/2014 Prep Date: 4/4/2014 SeqNo: 514469 Units: mg/Kg SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 71.7 134 Surr: BFB 930 1000 93.3 74.5 129

Qualifiers:

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

Page 4 of 5

Client: Blagg Engineering

•

Project: Mudge GC D 1

Sample ID MB-12550	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	n ID: 12	550	F	RunNo: 1	7826				
Prep Date: 4/4/2014	Analysis [Date: 4/	7/2014	S	eqNo: 5	14510	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		104	80	120			
	urr: 4-Bromofluorobenzene 1.0 1.000 104 80 120									
Sample ID LCS-12550	Samp1	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Sample ID LCS-12550 Client ID: LCSS	Samp1 Batcl	ype: LC	S 550	Tes R	tCode: El	PA Method 7826	8021B: Volat	iles	<u> </u>	
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014	SampT Batcl Analysis [ype: LC DID: 12 Date: 4 /	S 550 7/2014	Tes R S	tCode: El tunNo: 1 SeqNo: 5	PA Method 7826 14511	8021B: Volat Units: mg/K	iles G		
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014 Analyte	SampT Batcl Analysis E Result	Type: LC n ID: 12 Date: 4 / PQL	S 550 7/2014 SPK value	Tes R SPK Ref Val	tCode: EF RunNo: 1 SeqNo: 5 %REC	PA Method 7826 14511 LowLimit	8021B: Volat Units: mg/K HighLimit	iiles g %RPD	RPDLimit	Qual
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014 Analyte Benzene	SampT Batcl Analysis [Result 1.1	Type: LC n ID: 12 Date: 4 / PQL 0.050	S 550 7/2014 SPK value 1.000	Tes F S SPK Ref Val 0	tCode: EF RunNo: 1 BeqNo: 5 %REC 110	PA Method 7826 14511 LowLimit 80	8021B: Volat Units: mg/K HighLimit 120	iles Gg %RPD	RPDLimit	Qual
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014 Analyte Benzene Toluene	SampT Batcl Analysis [Result 1.1 1.0	ype: LC D ID: 12: Date: 4/ PQL 0.050 0.050	S 550 7/2014 SPK value 1.000 1.000	Tes F S SPK Ref Val 0 0	tCode: EF RunNo: 1 SeqNo: 5 <u>%REC</u> 110 101	PA Method 7826 14511 LowLimit 80 80	8021B: Volat Units: mg/K HighLimit 120 120	iiles (g %RPD	RPDLimit	Qual
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014 Analyte Benzene Toluene Ethylbenzene	Batch ID: 12550 114 Analysis Date: 4/7/2014 Result PQL SPK value ND 0.050 ND ND 0.050 ND ND 0.050 ND Analysis Date: 4/7/2014 Essite 1.0 1.000 Analysis Date: 4/7/2014 Essite Figure 1.0 1.000 Analysis Date: 4/7/2014 Result PQL SPK value 1.1 0.050 1.000 1.0 0.050 1.000 1.0 0.050 1.000 1.0 0.050 1.000 1.0 0.050 1.000 3.0 0.10 3.000 Analysis 1.1 1.000				tCode: Ef RunNo: 1 GeqNo: 5 <u>%REC</u> 110 101 101	PA Method 7826 14511 LowLimit 80 80 80	8021B: Volat Units: mg/K HighLimit 120 120 120	iiles g %RPD	RPDLimit	Qual
Sample ID LCS-12550 Client ID: LCSS Prep Date: 4/4/2014 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	SampT Batcl Analysis E Result 1.1 1.0 1.0 3.0	ype: LC Date: 4/ PQL 0.050 0.050 0.050 0.10	S 550 7/2014 SPK value 1.000 1.000 1.000 3.000	Tes F SPK Ref Val 0 0 0 0 0 0	tCode: ER RunNo: 1 GeqNo: 5 <u>%REC</u> 110 101 101 101	PA Method 7826 14511 LowLimit 80 80 80 80 80	8021B: Volat Units: mg/K HighLimit 120 120 120 120	iles g %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

Page 5 of 5

WO#: 1404206

11-Apr-14

Ξ

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

•

÷

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

Sample Log-In Check List

Client Name:	BLAGG	Work Order Numbe	r: 1404206		RcptNo: 1	
Received by/dat	te:AG	64/04/14				
Logged By:	Michelle Garcia	4/4/2014 10:00:00 AN	A	Mirul Ga	nue	
Completed By:	Michelle Garcia	4/4/2014 10:28:53 AM	A	Munul Go	nuin	
Reviewed By:	Cs	04/04/14				
Chain of Cus	tody					<u> </u>
1. Custody sea	als intact on sample bottl	es?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of (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 sa	mples?	Yes 🗹	No 🗌		
5. Were all sar	mples received at a temp	erature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sa	imple volume for indicate	d test(s)?	Yes 🔽	No 🗌		
8. Are samples	(except VOA and ONG)	property 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 receive	d broken?	Yes 🗆	No 🗹	# of preserved	
12. Does papen (Note discre	work match bottle labels? pancies on chain of custo	, ody)	Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12	unless noted)
13 Are matrices	s correctly identified on C	hain of Custody?	Yes 🗹	No 🗌	Adjusted?	
14. Is it clear wh	nat analyses were reques	ted?	Yes 🗹	No 🗆		
15. Were all hol (If no, notify	ding times able to be me customer for authorization	t? on.)	Yes 🗹	No 🗌	Checked by:	
Special Hand	lling (if applicable)					

16. Was client notified of all discrepancies with this order? Yes No No NA Person Notlfied: Person Notlfied: 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	1.0	Good	Yes			

	Blagg Engir BP America	ieering, ind 	3	Standard Project Name	Rush e:		_			AN/	LYS	SIS L	ABC menta	RA I.com	TOR	X
Mailing Addre	ess:	P.O. Box	87		Mudge GC D) 1		490	01 Ha	wkins	NE -	Albuqi	eraue	NM 8	7109	
		Bloomfie	ld, NM 87413	Project #:				Tel. 505-345-3975 Fax 505-345-4107							17	
Phone #		(505)320	-1183					<u>م الم</u>			Analy	sis Red	juest			
email or Fax	#:			Proiect Mana	iaer:										Î	
QA/QC Packa	ae:				Jeff Blagg											
Standard			Level 4 (Full Validation))					Q							
⊐ Other			•	Sampler.	Jeff Blagg				Ď							
□ EDD (Typ	e)			On Ice:	X Yes	🗆 No			ð							
		· ·		Sample Tem	perature:	fe O	€ ∭		<u>ق</u>	i						
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX (802		TPH 8015B						Chloride	A :- D - L - L -
04/03/2014	9:20	Soil	10-pt Comp @ 6'	1x 4oz	cool	-001	x		x						x	T
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Rer	mark	s: Bil	BP					<u></u>	
722/4	1600	1 de	11 'Diegg	motin	Weters	3Kory 1600	J ∣Pay	/key:	ZFE		SJS	Dies			te to:	
Date:	Time:	Relinquish	ed by:	Received by:	ND	Date Time		sce.je	ffrey(2)bp.c	om	L. IAS	se cobi	yiesu	13 10.	
4/2/14	1779	Moi	tu Dasta	Hatal	Halan What and will			HILI INAN								

~ .