District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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.

			Rele	ease Notific	catior	and Co	orrective A	ction	n				
						OPERA'	ГOR		☐ Initia	al Report	Final Report		
Name of Co	ompany BP	America Produc	tion Compa	ny		Contact Erin	Garifalos			•			
Address 200	Energy Cour	t, Farmington, N	M 87401			Telephone 1	No. (832) 609-7048						
Facility Na	me SANDOV	AL GC A 001A				Facility Typ	e: Natural Gas We	II					
Surface Ow	ner: Federa	I		Mineral (	Owner:	Federal			API No	. 3004522294			
				LOCA	ATIO	OF RE	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County			
C	35	30N	09W	1,150	Nor	th	1,590	We	est	Sa	an Juan		
			Latitud	le 36.77222	L	ongitude1	07.75408	NAD	083				
				NAT	TURE	OF REL	EASE						
Type of Rele	ase:: none	9					Release:: unkno	own	Volume F	Recovered:: N	/A		
Source of Re	elease: belo	w grade ta	nk - 95	bbl			Hour of Occurrence	e:		Hour of Disco	very:		
Was Immedi						n/a If YES, To	Whom?		n/a				
was minieur	ate Notice (		Yes 🗸	No □ Not R	equired	11 1125, 10	whom:						
By Whom?						Date and H	Hour						
Was a Water	course Read					If YES, Vo	olume Impacting t	he Wat	tercourse.				
			Yes ✓	No									
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*					OIL CO	NS. DIV DI	ST. 3		
										- 004	,		
									DE	C 2 2 201	/		
	25 11												
Describe Car	ise of Probl	em and Reme	diai Actio	BTEX a	nd chlorid is ranked	es with all but with a closure	during BGT remova TPH below BGT clos standard of 1,000 p sure. Field reports a	sure sta	ndards. Follow requiring no f	wing the spill and further action. Fu	d release guidelines,		
Describe Are	a Affected	and Cleanup	Action Tal	cen.*	10				1 - 2		-111		
											ated using a		
							was comple			oratory a	naiysis		
							al action is re						
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to a	o report and acceptant adequately OCD accept	nd/or file certain in the of a C-141 report investigate and in	elease no ort by the emediate	otifications as NMOCD m contaminati	knowledge and und perform correct arked as "Final R on that pose a three the operator of	etive act eport" of eat to g respons	tions for rele does not reli round water sibility for co	eases which m leve the operate, surface wate compliance with	ay endanger or of liability r, human health h any other		
							OIL CON	SERV	ATION	DIVISION	1		
1	oun 9	Wilfale	24							1			
o a Barana						Approved by	Environmental S	pecialis	st:	1			
Printed Name	e: Erin C	arifalos							1	5/			
	Title: Field Environmental Coordinator  Approval Date: 12 /22/17 Expiration Date:												
		garifalos				Conditions of	7009	(					
Date: Decer				(832) 609-7048		UI DIEGO OF				Attached [			
Attach Addi				1		-1 -1	7 11						
			7	+10051	15	065	3477			,			

CLIENT: BP		NGINEERING, IN		API#: 300452	2294
	(50	5) 632-1199		TANK ID (if applicble):	A
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGATION / C	OTHER:	PAGE #: <b>1</b>	of <b>2</b>
SITE INFORMATION		VAL GC A #1A		DATE STARTED: 10	/05/17
QUAD/UNIT: C SEC: 35 TWP:		NM CNTY: SJ	ST: NM	DATE FINISHED:	
1/4 - 1/4/FOOTAGE: 1,150'N / 1,5 LEASE #: SF078139		TYPE: FEDERAL STATE / STRIKE ONTRACTOR: MBF - R. F		ENVIRONMENTAL SPECIALIST(S): NJ\	//JCB
REFERENCE POINT			9 X 107.75352	GL ELEV.:	5,712'
1) 95 BGT (SW/DB)	GPS COORD.: 36	5.77222 X 107.75408	DISTANCE/BEA	RING FROM W.H.: 186', N	V63.5W
2)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	
SAMPLING DATA:  1) SAMPLE ID: 1 @ 4.5' (95 2) SAMPLE ID: Minor Impact 3-pt 3) SAMPLE ID: Minor Impact 4-pt 4) SAMPLE ID: Minor Impact Pipeline 5) SAMPLE ID:	t. @ 12' SAMPLE DATE: 10/05 t. 7'-10' SAMPLE DATE: 10/05	5/17 SAMPLETIME: 1505 5/17 SAMPLETIME: 1515	LAB ANALYSIS: 801  LAB ANALYSIS: 801  LAB ANALYSIS: 801	15B/8021B/300.0 (CI) 15B/8021B/300.0 (CI) 15B/8021B/300.0 (CI) 15B/8021B/300.0 (CI)	OVM READING (ppm) 1,445 1.4 1.2
SOIL COLOR: DARK YEL  COHESION (ALL OTHERS): NON COHESIVE (SLIGHTL'  CONSISTENCY (NON COHESIVE SOILS): LO  MOISTURE: DRY (SLIGHTLY MOIST MOIST) W  SAMPLE TYPE: GRAB (COMPOSITE) #  DISCOLORATION/STAINING OBSERVED: YES IN	DOSE (FIRM) DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS5	PLASTICITY (CLAYS): NON PLASTIC DENSITY (COHESIVE CLAYS & HC ODOR DETECTED: YES NO SOILS ONLY. ANY AREAS DISPLAYING WETNES	SILTS): SOFT FIRM EXPLANATION - PHY  SS: YES NO EXPLAN	STIFF VERY STIFF / HARD SICALLY FROM DISCOLO WATION -	
SITE OBSERVATION  APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA:  OTHER: NMOCD OR BLM NOT PRESEN  IMPACTED SOILS.  EXCAVATION DIMENSION ESTIMATION:	DAND/OR OCCURRED: YES NO EXPL YES NO EXPLANATION - 105 BB T TO WITNESS CONFIRMATION S	ANATION: PHYSICALLY FROM L SHALLOW LOW PROFILE	ABOVE-GRADE TAI IBERGLASS LINE D	NK TO BE SET ATOP BG	T LOCATION.
DEPTH TO GROUNDWATER: <100' N	IEAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER:	>1,000' NMOC	D TPH CLOSURE STD:1	,000 ppm
SITE SKETCH	BGT Located: off on sit	e PLOT PLAN circ	cle: attached OVM	CALIB. READ. = 100.0	_ppm RF =1.00
					ppm
SEPAR	RATOR ->		N TIME	: <u>11:25</u> (am/pm DATE: _	10/05/17
	✓ COM	MPRESSOR		MISCELL. NO	)TES
T.B B BER	M PIPELIN	& 4-pt. nples E GRAB	R V P.	201	14/10
FENCE:	PROD. FLOWLINE	GLASS	Tar IC	nk OVM = Organic Vapor I	/ <b>N</b>
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION	ON DEPRESSION; B.G. = BELOW GRADE; B = B	ELOW; T.H. = TEST HOLE; ~ = APPROX.;	W.H. = WELL HEAD;	BGT Sidewalls Visible: Y	
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	.OW-GRADE TANK LOCATION; SPD = SAMPLE F E WALL; DW - DOUBLE WALL; SB - SINGLE BOT	POINT DESIGNATION; R.W. = RETAINING		lagnetic declination: 1	10°E
NOTES: GOOGLE EARTH IMAG	ERY DATE: 10/5/2016.	ONSITE: 10/05/	17		

CLIENT: BP	P.O. BOX 87, B	NGINEERING, INC. LOOMFIELD, NM 87 5) 632-1199	413	API #: 3004522  TANK ID (if applicble): A	294
FIELD REPORT:	(circle one): BGT CONFIRMATION /	RELEASE INVESTIGATION / OTHER:		PAGE #: <b>2</b> o	f <b>2</b>
SITE INFORMATION	SITE NAME: SANDO	VAL GC A #1A		DATE STARTED: 10/0	5/17
QUAD/UNIT: C SEC: 35 TWP:	30N RNG: 9W PM:	NM CNTY: SJ ST	NM	DATE FINISHED: 10/0	6/17
1/4 -1/4/FOOTAGE: 1,150'N / 1,5	90'W NE/NW LEASE T	YPE: FEDERAL STATE / FEE /	INDIAN	ENVIRONMENTAL	
0=0=0100		STRIKE ONTRACTOR: MBF - R. POWE			CB
REFERENCE POINT	: WELL HEAD (W.H.) GPS	COORD.: 36.77199 X 1	07.75352	GL ELEV.: 5	,712'
95 BGT (SW/DB)	GPS COORD.: 36	.77222 X 107.75408	DISTANCE/BEAF	RING FROM W.H.: 186', N6	3.5W
2)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
3)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # C	OR LAB USED: HALL			OVM READING
1) SAMPLE ID: Minor Impact South Wal			veis: 801	5B/8021B/300.0 (CI)	(ppm) 11.8
	Is 4-pt. (2'-5') SAMPLE DATE: 10/06		004	5B/8021B/300.0 (CI)	2.8
	ase 8' (5-pt.) SAMPLE DATE: 10/06		004	5B/8021B/300.0 (CI)	7.2
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL	YSIS:		
5) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL	YSIS:		
SOIL DESCRIPTION					
	LOWISH ORANGE	PLASTICITY (CLAYS): NON PLASTIC SLIGH			LY PLASTIC
COHESION (ALL OTHERS): NON COHESIVE (SLIGHTL' CONSISTENCY (NON COHESIVE SOILS): LC		DENSITY (COHESIVE CLAYS & SILTS): HC ODOR DETECTED: YES NO EXPLAN			ED
MOISTURE: DRY/SLIGHTLY MOIST MOIST W		SOILS ONLY.	MION- FILL	SICALLI PROM DISCOLOR	
SAMPLE TYPE: GRAB COMPOSITE #		ANY AREAS DISPLAYING WETNESS: YES	NO EXPLAN	IATION -	
DISCOLORATION/STAINING OBSERVED: YES	O EXPLANATION - MOSTLY BLACK				
SITE OBSERVATION	S: LOST INTEGRITY OF EQUIPMENT	YES NO EXPLANATION -			
APPARENT EVIDENCE OF A RELEASE OBSERVE	D AND/OR OCCURRED : YES NO EXPL	ANATION: PHYSICALLY FROM DISC			
EQUIPMENT SET OVER RECLAIMED AREA:	YES NO EXPLANATION - 105 BBI	L SHALLOW LOW PROFILE ABOVE	E-GRADE TAN	NK TO BE SET ATOP BGT L	OCATION.
OTHER: NMOCD OR BLM NOT PRESEN	I TO WITNESS SAMPLING. ABA	NDONED FIBERGLASS LINE DISC	OVERED WIT	HIN AREA OF IMPACTED S	OILS.
EXCAVATION DIMENSION ESTIMATION:	8 ft. X 6	ft. X 12 ft. IMPAC	TED SOILS ES	STIMATION (Cubic Yards) : _	10-15 ±
DEPTH TO GROUNDWATER: <100' N	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER: >1,0	00' NMOC	D TPH CLOSURE STD: 1,0	00 ppm
SITE SKETCH	BGT Located : off on site	e PLOT PLAN circle: at	tached	CALIB. READ. = <b>100.3</b> ppi	
		TEOTIE III SII SII SII	_ OVIVI		141 -1.00
SEDAE	RATOR →			CALIB. GAS = 100 ppr	0/06/17
SEFA	ATOR		TIME	:	0/00/17
	✓ CON	IPRESSOR	'	MISCELL. NOT	ΓES
		5/17 excavation	l w	O:	
	.~5'	10/06/17 excavation	R	EF#: P-802	
_		South & North Walls	V	D: VHIXONEVRI	1
BER	MAL	& South Base samples	P.	J#:	
		ermit date(s): 06/14	1/10		
FENCE		10/05/17 TO W.H.		CD Appr. date(s): 02/07	
, 21102	ABANDO	OIAED	Tan	k OVM = Organic Vapor Met	
	PROD. FLOWLINE ~			ppm = parts per million BGT Sidewalls Visible: Y /	<u>N</u> )
	TANK			BGT Sidewalls Visible: Y /	
NATES DOT DELCHIODADE TANK E.B. EVO	NI DEDDEGGIONI D. A. DEL CHI ODI DE D. D.		S.P.D.	BGT Sidewalls Visible: Y /	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION   TB = TANK BOTTOM: PBGTL = PREVIOUS BEL		ELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = W OINT DESIGNATION; R.W. = RETAINING WALL; NA	A-NOT		
	E WALL; DW - DOUBLE WALL; SB - SINGLE BOT		IV	lagnetic declination: 10	
NOTES: GOOGLE EARTH IMAG	ERY DATE: 10/5/2016.	ONSITE: 10/05/17, 10	/06/17		

Lab Order 1710370

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

**Client Sample ID:** 1 @ 4.5' (95)

Project: SANDOVAL GC A #1A

Collection Date: 10/5/2017 11:15:00 AM

**Lab ID:** 1710370-001

Matrix: SOIL

Received Date: 10/6/2017 7:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	ND	30		mg/Kg	20 10/6/2017 11:02:20 AM 34279
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: TOM
Diesel Range Organics (DRO)	670	9.2		mg/Kg	1 10/6/2017 10:13:02 AM 34275
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1 10/6/2017 10:13:02 AM 34275
Surr: DNOP	101	70-130		%Rec	1 10/6/2017 10:13:02 AM 34275
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	2600	160		mg/Kg	50 10/6/2017 10:53:54 AM 34265
Surr: BFB	533	54-150	S	%Rec	50 10/6/2017 10:53:54 AM 34265
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.81		mg/Kg	50 10/6/2017 10:53:54 AM 34265
Toluene	ND	1.6		mg/Kg	50 10/6/2017 10:53:54 AM 34265
Ethylbenzene	ND	1.6		mg/Kg	50 10/6/2017 10:53:54 AM 34265
Xylenes, Total	47	3.3		mg/Kg	50 10/6/2017 10:53:54 AM 34265
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	50 10/6/2017 10:53:54 AM 34265

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

- \* 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1710369

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering SANDOVAL GC A #1A **Project:** 

Lab ID: 1710369-001

Client Sample ID: Minor Impact 3-pt @ 12'

Collection Date: 10/5/2017 3:05:00 PM Received Date: 10/6/2017 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	10/6/2017 10:25:06 AM	1 34279
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS	3			Analys	: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/6/2017 10:35:07 AM	34275
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/6/2017 10:35:07 AM	34275
Surr: DNOP	98.5	70-130	%Rec	1	10/6/2017 10:35:07 AM	34275
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/6/2017 9:43:19 AM	34258
Surr: BFB	92.6	54-150	%Rec	1	10/6/2017 9:43:19 AM	34258
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.017	mg/Kg	1	10/6/2017 9:43:19 AM	34258
Toluene	ND	0.034	mg/Kg	1	10/6/2017 9:43:19 AM	34258
Ethylbenzene	ND	0.034	mg/Kg	1	10/6/2017 9:43:19 AM	34258
Xylenes, Total	ND	0.068	mg/Kg	1	10/6/2017 9:43:19 AM	34258
Surr: 4-Bromofluorobenzene	96.6	66.6-132	%Rec	1	10/6/2017 9:43:19 AM	34258

Matrix: SOIL

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 7 J
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1710369

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: SANDOVAL GC A #1A

**Lab ID:** 1710369-002

Client Sample ID: Minor Impact 4-pt @ 7'-10'

**Collection Date:** 10/5/2017 3:15:00 PM **Received Date:** 10/6/2017 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	10/6/2017 10:37:31 AM	34279
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/6/2017 10:57:18 AM	34275
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/6/2017 10:57:18 AM	34275
Surr: DNOP	99.2	70-130	%Rec	1	10/6/2017 10:57:18 AM	34275
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	10/6/2017 10:06:47 AM	34258
Surr: BFB	96.6	54-150	%Rec	1	10/6/2017 10:06:47 AM	34258
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	10/6/2017 10:06:47 AM	34258
Toluene	ND	0.044	mg/Kg	1	10/6/2017 10:06:47 AM	34258
Ethylbenzene	ND	0.044	mg/Kg	1	10/6/2017 10:06:47 AM	34258
Xylenes, Total	ND	0.087	mg/Kg	1	10/6/2017 10:06:47 AM	34258
Surr: 4-Bromofluorobenzene	96.9	66.6-132	%Rec	1	10/6/2017 10:06:47 AM	34258

Matrix: SOIL

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

- \* 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 Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1710369

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Minor Impact Pipeline Grab @

 Project:
 SANDOVAL GC A #1A
 Collection Date: 10/5/2017 3:45:00 PM

 Lab ID:
 1710369-003
 Matrix: SOIL
 Received Date: 10/6/2017 7:20:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	10/6/2017 10:49:55 AM	34279
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	3			Analys	: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/6/2017 11:19:21 AM	34275
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/6/2017 11:19:21 AM	34275
Surr: DNOP	100	70-130	%Rec	1	10/6/2017 11:19:21 AM	34275
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	10/6/2017 10:30:22 AM	34258
Surr: BFB	91.7	54-150	%Rec	1	10/6/2017 10:30:22 AM	34258
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.018	mg/Kg	1	10/6/2017 10:30:22 AM	34258
Toluene	ND	0.036	mg/Kg	1	10/6/2017 10:30:22 AM	34258
Ethylbenzene	ND	0.036	mg/Kg	1	10/6/2017 10:30:22 AM	34258
Xylenes, Total	ND	0.073	mg/Kg	1	10/6/2017 10:30:22 AM	34258
Surr: 4-Bromofluorobenzene	96.7	66.6-132	%Rec	1	10/6/2017 10:30:22 AM	34258

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

- \* 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 Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1710438

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: Minor Impact South Base @ 8' (5

Project: SANDOVAL GC A 1A

**Collection Date:** 10/6/2017 11:32:00 AM

**Lab ID:** 1710438-001

Matrix: SOIL

Received Date: 10/7/2017 10:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	10/9/2017 1:59:25 PM	34306
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	10/9/2017 11:38:35 AM	34298
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/9/2017 11:38:35 AM	34298
Surr: DNOP	97.4	70-130	%Rec	1	10/9/2017 11:38:35 AM	34298
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	10/9/2017 9:38:12 AM	G46204
Surr: BFB	92.3	54-150	%Rec	1	10/9/2017 9:38:12 AM	G46204
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.021	mg/Kg	1	10/9/2017 9:38:12 AM	B46204
Toluene	ND	0.042	mg/Kg	1	10/9/2017 9:38:12 AM	B46204
Ethylbenzene	ND	0.042	mg/Kg	1	10/9/2017 9:38:12 AM	B46204
Xylenes, Total	ND	0.084	mg/Kg	1	10/9/2017 9:38:12 AM	B46204
Surr: 4-Bromofluorobenzene	97.5	66.6-132	%Rec	1	10/9/2017 9:38:12 AM	B46204

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

- \* 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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Lab Order 1710438

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Client Sample ID: Minor Impact South Walls 4-pt (

Project: SANDOVAL GC A 1A Collection Date: 10/6/2017 11:36:00 AM

Lab ID: 1710438-002 Matrix: SOIL Received Date: 10/7/2017 10:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: MRA
Chloride	ND	30	mg/Kg	20	10/9/2017 2:11:50 PM	34306
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	3			Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/9/2017 12:00:26 PM	34298
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/9/2017 12:00:26 PM	34298
Surr: DNOP	101	70-130	%Rec	1	10/9/2017 12:00:26 PM	34298
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	10/9/2017 10:01:43 AM	G46204
Surr: BFB	90.6	54-150	%Rec	1	10/9/2017 10:01:43 AM	G46204
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.019	mg/Kg	1	10/9/2017 10:01:43 AM	B46204
Toluene	ND	0.038	mg/Kg	1	10/9/2017 10:01:43 AM	B46204
Ethylbenzene	ND	0.038	mg/Kg	1	10/9/2017 10:01:43 AM	B46204
Xylenes, Total	ND	0.076	mg/Kg	1	10/9/2017 10:01:43 AM	B46204
Surr: 4-Bromofluorobenzene	95.4	66.6-132	%Rec	1	10/9/2017 10:01:43 AM	B46204

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

- \* 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 Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Lab Order 1710438

Date Reported: 10/11/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: Minor Impact North Walls 4-pt (

Project: SANDOVAL GC A 1A

Collection Date: 10/6/2017 11:42:00 AM

**Lab ID:** 1710438-003

Matrix: SOIL

Received Date: 10/7/2017 10:35:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	10/9/2017 2:24:15 PM	34306
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	10/9/2017 12:22:27 PM	34298
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/9/2017 12:22:27 PM	34298
Surr: DNOP	96.7	70-130	%Rec	1	10/9/2017 12:22:27 PM	34298
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/9/2017 10:25:08 AM	G46204
Surr: BFB	88.6	54-150	%Rec	1	10/9/2017 10:25:08 AM	G46204
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.017	mg/Kg	1	10/9/2017 10:25:08 AM	B46204
Toluene	ND	0.034	mg/Kg	1	10/9/2017 10:25:08 AM	B46204
Ethylbenzene	ND	0.034	mg/Kg	1	10/9/2017 10:25:08 AM	B46204
Xylenes, Total	ND	0.069	mg/Kg	1	10/9/2017 10:25:08 AM	B46204
Surr: 4-Bromofluorobenzene	95.1	66.6-132	%Rec	1	10/9/2017 10:25:08 AM	B46204

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

- 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 Page 3 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS	Chain-of-Custody Record		Turn-Around T	ime:	SAME		ı			н	A	LL	E	NV	/IF	20	NI	ИĒ	NT	A	L	
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		BLOOM	FIELD, NM 87413	Project #:					Tel	. 50	5-34	5-39	975	1	ax	505-	345	-410	7			
Phone #:		(505) 63	32-1199										A	hal	ysis	Rec	lues	t				
email or F	ax#:			Project Manag	jer:										4				T		Т	$\neg$
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VE	LEZ		FMB's (8021B)	only)	MRO)			IS)		04,50	PCB's			er - 300.1)			a
Accreditat	ion:			Sampler:	<b>NELSON VE</b>	LEZ	971	€ (8(	(Gas	RO/	11	7	SIIV		102,	3082			/ wat			sample
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□ EDD (1	ype)			Sample Temperature: 7-8			1	# ±	(GRC	pou	pot	or	etals	CI,N	cide	(A)	i-V	il - 3		e l	osit	
Date	Time	Matrix	Sample Request ID	Container Preservative		BTEX +-MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water -		Grab sample	# pt. composite		
10/5/17	1115	SOIL	1 @ 4.5' (95)	4 oz 1	Cool		001	٧		٧		$\neg$							٧		٧	
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Chain-of-Custody Record		Turn-Around	Time:	same 1	DAY										-		4-					
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QA/QC I	Package:		☐ Level 4 (Full Validation)	J.	BLAGE			<b>加斯</b> 's (8021)	TPH (Gas only)	DRO/MRO)			SIMS)		PO4,S(	PCB's						
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□ EDD	(Type)			Sample Tem	opalo <b>re</b>	1.8			3 +	(GR	d 41	d 50	o	tals	8	des		0/	1.			2
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. 1 .	f necessary,	samples sub	mitted to Hall Environmental may be subc	contracted to other a	ccredited laboratori	es. This serves as	notice of this	possi	bility.	Any su	b-cont	racted	data	will be	clear	y nota	ited or	n the a	nalytic	al repor	t.	

	hain	-of-Cu	istody Record	Turn-Around	Time:	SAME DAY						IAI			MIN	TE	0	NI B	A E	NT	AI	í	
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Data	<b>T</b>	Matrix	Commis Dominat ID	Container	Preservative	HEALING		4-6	≥ +	015	Meth	Met	PAH's (8310	8	F,	Pest	8260B (VOA)	Sen	CHEBEUR				pple
Date	Time	Matrix	Sample Request ID	Type and #	Туре	FIE ALENO	***	BTEX	BTEX	H 8	H.	)B(	YH's	SRA!	ions	81 F	60B	20 (	CF				- Bu
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1-11		samples sub	mitted to Hall Environmental may be subc	ontracted to other a	correlated laboratori			possil	bility.	Any st	ub-con	tracte	d data	will be	clear	ly nota	ated on	the a	nalytic	al repo	rt.		_
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## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710370

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID MB-34279

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

**PBS** 

Batch ID: 34279

RunNo: 46172

Prep Date:

Sample ID LCS-34279

10/6/2017

SeqNo: 1471142

Units: mg/Kg

Analyte

Analysis Date: 10/6/2017

%REC LowLimit

HighLimit

**RPDLimit** 

Qual

Chloride

Result PQL

ND 1.5

SampType: Ics Batch ID: 34279

RunNo: 46172

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date: LCSS 10/6/2017

Analysis Date: 10/6/2017

SeqNo: 1471143

Units: mg/Kg

%RPD

Analyte

Result

SPK value SPK Ref Val %REC

92.9

LowLimit 90 HighLimit

15.00

%RPD

Chloride

14

**RPDLimit** 

Qual

PQL 1.5

SPK value SPK Ref Val

110

### Qualifiers:

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

Page 2 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1710370

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID LCS-34275	SampTy	/pe: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 34	275	R	RunNo: 4	6160				
Prep Date: 10/6/2017	Analysis Da	ate: 10	/6/2017	S	SeqNo: 1	469181	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	73.2	114			
Surr: DNOP	4.8		5.000		95.4	70	130			

Sample ID MB-34275	SampT	уре: МЕ	BLK	Tes	Code: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: <b>34</b>	275	F	tunNo: 4	6160				
Prep Date: 10/6/2017	Analysis D	ate: 10	0/6/2017	S	eqNo: 1	469182	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.1	70	130			

### Qualifiers:

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

ve quantitation range

Page 3 of 5

## Hall Environmental Analysis Laboratory, Inc.

990

WO#:

1710370

11-Oct-17

Client:

Blagg Engineering

Project:

Surr: BFB

SANDOVAL GC A #1A

Sample ID MB-34265 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Batch ID: 34265 Client ID: PBS RunNo: 46173 SeqNo: 1470392 Prep Date: 10/5/2017 Analysis Date: 10/6/2017 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 870 1000 87.0 54 150

TestCode: EPA Method 8015D: Gasoline Range Sample ID LCS-34265 SampType: LCS Client ID: LCSS Batch ID: 34265 RunNo: 46173 Analysis Date: 10/6/2017 SeqNo: 1470393 Prep Date: 10/5/2017 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result PQL LowLimit Gasoline Range Organics (GRO) 28 25.00 114 125

99.0

54

150

1000

### 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

Reporting Detection Limit

- J Analyte detected below quantitation limits
  - quantitation minto
- P Sample pH Not In Range

RL

W Sample container temperature is out of limit as specified

Page 4 of 5

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710370

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID MB-34265	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 34	265	R	RunNo: 4	6173						
Prep Date: 10/5/2017	Analysis D	ate: 10	0/6/2017	S	SeqNo: 1	470424	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	66.6	132					

Sample ID LCS-34265	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	1D: 34	265	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis D	ate: 10	0/6/2017	8	SeqNo: 1	470425	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.1	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	66.6	132			

### 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

Page 5 of 5

- 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 Na	ame: BLAG	3	Work Order Number	: 17103	70		RcptNo:	1
Received	By: Anne	Thome	10/6/2017 7:20:00 AM	ı	am	Am.	_	
Complete	ed By: Anne	Thorne	10/6/2017 7:47:27 AM	l	Dan	1	_	
Reviewe	d By: 30	10.6.17 @	8810		Q.	7,		
Chain o	of Custody							
		on sample bottles?	,	Yes	□ N	o 🗆	Not Present ✓	
• •	ain of Custody			Yes			Not Present	
	was the sample			Courie				
Log In								
4. Was	an attempt ma	de to cool the samp	les?	Yes	✓ N	io 🗌	NA 🗆	
5. Were	all samples re	ceived at a tempera	ture of >0° C to 6.0°C	Yes 8	✓ No		NA 🗆	
6. Sam	ple(s) in proper	container(s)?		Yes	<b>✓</b> N	lo 🗆		
7. Suffic	cient sample vo	lume for indicated to	est(s)?	Yes	<b>✓</b> N	o 🗆		
8. Are s	amples (except	VOA and ONG) pro	operly preserved?	Yes	✓ No	0 🗆		
9. Was	preservative ad	ded to bottles?		Yes	N	0 🗹	NA	
10.VOA	vials have zero	headspace?		Yes [		o 🗆	No VOA Vials ✓	
11. Were	e any sample co	ontainers received b	roken?	Yes	N	o 🗹	# of preserved	
				,			bottles checked	
		ch bottle labels? on chain of custody	)	Yes	✓ N	<b>о</b> Ш	for pH: (<2 o	or >12 unless noted)
		y identified on Chai	•	Yes [	✓ No	o 🗆	Adjusted?	
		ses were requested		Yes [	✓ Ne	• 🗆		
	_	es able to be met?		Yes [	✓ No	o 🗆	Checked by:	
(If no,	, notify custome	er for authorization.)				ı		
Special	Handling (if	applicable)						
16. Was	client notified of	all discrepancies w	vith this order?	Yes [	No		NA 🗹	
	Person Notified	1:	Date	ANAGEN-REGENCIANIE	NACACIAN BANANANIA (NI TACIONA BANANA	MADE STOREST CONTRACT		
	By Whom:		Via:	eMail	Phone	Fax	☐ In Person	
	Regarding:			distance in a little state	Street Authorities and embedded to Apublished activities had			
	Client Instruction	ons:						
17. Addit	tional remarks:							
1	er Information poler No Tem 1.8	p °C   Condition	Seal Intact   Seal No   Yes	Seal Date	e Signed	Ву		

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710369

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID MB-34279

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 34279

RunNo: 46172

Prep Date:

SeqNo: 1471142

Units: mg/Kg

Analyte

10/6/2017

Analysis Date: 10/6/2017

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** 

Qual

Chloride

Result PQL ND 1.5

Sample ID LCS-34279

SampType: Ics

RunNo: 46172

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

LCSS

Batch ID: 34279

SeqNo: 1471143

Units: mg/Kg

Analyte

10/6/2017

Analysis Date: 10/6/2017

SPK value SPK Ref Val %REC

92.9

LowLimit

%RPD HighLimit

**RPDLimit** 

Qual

Result

**PQL** 1.5

15.00

Chloride

14

90

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

**PQL** Practical Quanitative Limit % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 4 of 7

Sample pH Not In Range

RL

Reporting Detection Limit Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710369

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID LCS-34275	SampTy	pe: LC	s	Test	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 34	275	R	RunNo: 4	6160				
Prep Date: 10/6/2017	Analysis Da	ate: 10	0/6/2017	S	SeqNo: 1	469181	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	73.2	114			
Surr: DNOP	4.8		5.000		95.4	70	130			

Sample ID MB-34275	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: <b>34</b>	275	R	RunNo: 4	6160				
Prep Date: 10/6/2017	Analysis D	ate: 10	0/6/2017	S	SeqNo: 1	469182	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.1	70	130			

- \* 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
- Page 5 of 7

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710369

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A #1A

Sample ID MB-34258 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Batch ID: 34258 Client ID: PBS RunNo: 46173 Prep Date: 10/5/2017 Analysis Date: 10/6/2017 SeqNo: 1470376 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 900 1000 898 54 150

Sample ID LCS-34258 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 34258 RunNo: 46173 Prep Date: 10/5/2017 Analysis Date: 10/6/2017 SeqNo: 1470377 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 29 Gasoline Range Organics (GRO) 0 125 5.0 25.00 117 76.4 Surr: BFB 1100 1000 106 54 150

#### Qualifiers:

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

Page 6 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710369

11-Oct-17

Client: Blagg Engineering
Project: SANDOVAL GC A #1A

Sample ID MB-34258	Sampl	Гуре: <b>М</b> Е	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	h ID: 34	258	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis D	Date: 10	0/6/2017	8	SeqNo: 1	470411	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	66.6	132			

Sample ID LCS-34258	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	1D: 34	258	F	RunNo: 4	6173				
Prep Date: 10/5/2017	Analysis D	ate: 10	0/6/2017	8	SeqNo: 1	470412	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.3	80	120			
Toluene	0.99	0.050	1.000	0	99.0	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	0.99		1,000		99 1	66.6	132			

### 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 7



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 N	lame:	BLAGG		Work O	rder Numbe	r: 1710	369		Rc	ptNo: 1	
Received	d By:	Anne Tho	me	10/6/2017	7:20:00 AM	A		anne Sh.			
Complete	ed By:	Anne Tho	me	10/6/2017	7:38:37 AM	А		anne A.			
Reviewe	d By:	50 10	61700	810				Cana Ar			
Chain c	of Cus	tody									
1. Cust	ody sea	ls intact on s	ample bottles?			Yes		No 🗆	Not Present	$\checkmark$	
2. Is Ch	nain of C	custody comp	olete?			Yes	<b>V</b>	No 🗆	Not Present		
3. How	was the	sample deli	vered?			Cour	ier				
Log In											
4. Was	an atte	mpt made to	cool the sample	es?		Yes	$\checkmark$	No 🗌	NA		
5. Were	e all san	nples receive	d at a temperat	ure of >0°C to	6.0°C	Yes	<b>V</b>	No 🗆	NA		
6. Sam	ıple(s) in	proper conta	ainer(s)?			Yes	$\checkmark$	No 🗆			
7. Suffic	cient sar	mple volume	for indicated tes	st(s)?		Yes	$\checkmark$	No 🗌			
8. Are s	samples	(except VOA	and ONG) proj	perly preserved	1?	Yes	$\checkmark$	No 🗆			
9. Was	preserv	ative added t	o bottles?			Yes		No 🗹	NA		
10.VOA	vials ha	ve zero head	Ispace?			Yes		No 🗆	No VOA Vials	<b>✓</b>	
11. Were	e any sa	mple contain	ers received br	oken?		Yes		No 🗹	# of preserved		
40 p						.,		N	bottles checke		
		ork match bo pancies on ch	nain of custody)			Yes	•	No 🗆	for pH:	(<2 or >12 ur	nless noted)
			ntified on Chain	of Custody?		Yes	<b>V</b>	No 🗌	Adjusted	1?	
14. Is it c	lear wha	at analyses w	ere requested?			Yes	V	No 🗌			
		_	le to be met? authorization.)			Yes	V	No 🗆	Checked	by:	
<b>(</b>	,,		,								
Special	Handi	ing (if app	olicable)								
16. Was	client no	otified of all d	iscrepancies wit	th this order?		Yes		No 🗆	NA	$\checkmark$	
	Person	Notified:		U.W.William in an autom	Date		MARINE AND A	CAT-125-CA-125-CA-Anna-An-Aban-Anna-An-Anna-An-An-An-An-An-An-An-An-An-An-An-An-An-			
	By Who	om:	A CONTRACTOR AND AND ADDRESS OF A CO	TERRITORIO CONTROLINA DE LA CONTROLINA DE	Via:	eMa	il 🔲	Phone Fax	☐ In Person		
	Regard	ing:				********			M. ATTER ON THE STREET STREET, CONTRACTOR OF THE STREET, CONTRACTOR OF	LAMP .	
	Client I	nstructions:					NO SALIMANA (MIN				
17. Addit	tional re	marks:									
18. <u>Cool</u>	ler Infor			Seal Intact   S	Seal No	Seal Da	te	Signed By	4		
L					·			(1.00) - 1.00 (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00) (1.00)	[		

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710438

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A 1A

Sample ID MB-34306

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 34306

RunNo: 46208

Prep Date:

Analyte

10/9/2017

Analysis Date: 10/9/2017

SeqNo: 1472041

Units: mg/Kg HighLimit

**RPDLimit** 

%RPD

Qual

Chloride

PQL Result ND 1.5

Sample ID LCS-34306

LCSS

SampType: Ics Batch ID: 34306

PQL

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 46208

SeqNo: 1472042

Units: mg/Kg

Prep Date: Analyte

Client ID:

10/9/2017

Analysis Date: 10/9/2017

SPK value SPK Ref Val %REC

LowLimit

%RPD HighLimit

Qual

90.2

90

Chloride

15.00

**RPDLimit** 

Result 14

0

SPK value SPK Ref Val %REC LowLimit

110

#### Qualifiers:

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

Page 4 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710438

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A 1A

Sample ID LCS-34298	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS						6197				
Prep Date: 10/9/2017	Analysis D	ate: 10	)/9/2017	8	SeqNo: 1	470767	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.3	73.2	114			
Surr: DNOP	4.2		5.000		83.3	70	130			

Sample ID MB-34298	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 34	298	R	RunNo: 4	6197				
Prep Date: 10/9/2017	Analysis D	ate: 10	)/9/2017	S	SeqNo: 1	470768	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.1	70	130			

#### Qualifiers:

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

Page 5 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710438

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A 1A

Sample ID RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

PBS

Batch ID: G46204

RunNo: 46204

Client ID:

PQL

5.0

HighLimit

Prep Date: Analyte

Prep Date:

Analysis Date: 10/9/2017

SeqNo: 1471397

Units: mg/Kg

**RPDLimit** 

Qual

Gasoline Range Organics (GRO)

Result ND

SPK value SPK Ref Val

SPK value SPK Ref Val

93.3

%REC

%RPD

%RPD

Surr: BFB

930

1000

Sample ID 2.5UG GRO LCS

SampType: LCS

0

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Client ID:

LCSS

Batch ID: G46204 Analysis Date: 10/9/2017

PQL

RunNo: 46204

%REC

HighLimit

150

150

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result 28 1100

25.00 1000

114 107

SeqNo: 1471398

54

LowLimit

**RPDLimit** 

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 6 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1710438

11-Oct-17

Client:

Blagg Engineering

Project:

SANDOVAL GC A 1A

Sample ID RB	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: <b>B46204</b>			RunNo: 46204						
Prep Date:	Analysis D	ate: 10	0/9/2017	S	SeqNo: 1	471413	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	66.6	132			

Sample ID 100NG BTEX LC	Samp	Type: LC	s	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: B4	6204	RunNo: 46204						
Prep Date:	Analysis [	Analysis Date: 10/9/2017 SeqNo: 1471414 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1 000		103	66.6	132			

#### 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 7



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

# Albuques N. 87109 Sample Log-In Check List

Client Name:	BLAGG	Work Order Number	er: 1710438		RcptNo:	1
Received By:	Andy Freeman	10/7/2017 10:35:00	AM	andyl		
Completed By:	Anne Thome	10/9/2017 7:46:24 A	M	and Home	_	
Reviewed By:	NC	10/9/17				
Chain of Cus	<u>tody</u>					
1. Custody sea	is 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?		Courier			
Log In						
4. Was an atte	empt made to cool the sample	es?	Yes 🗹	No 🗆	NA 🗆	
5. Were all san	nples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) ii	n proper container(s)?		Yes 🗹	No 🗆		
7. Sufficient sa	mple volume for indicated te	st(s)?	Yes 🗹	No 🗆		
8. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗆		
9. Was preserv	vative 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 b	roken?	Yes	No 🗹		
			_		# of preserved bottles checked	
	vork match bottle labels? pancies on chain of custody)		Yes 🗸	No 🗀	for pH: (<2 o	r >12 unless noted)
	correctly identified on Chair		Yes 🗹	No 🗆	Adjusted?	
	at analyses were requested		Yes 🗹	No 🗆		
15. Were all hold	ding times able to be met?		Yes 🗹	No 🗆	Checked by:	•
(If no, notify	customer for authorization.)			L		
Special Hand	ling (if applicable)					
	otified of all discrepancies w	th this order?	Yes	No 🗌	NA 🗸	
Person	Notified:	Date				]
By Wh	d .	Via:	; ∏eMail∏ F	hone Fax	In Person	
Regard	SHARING BURNESS AND SHARING SHARING		CONTRACTOR	THOUSE CHANGES AND THE SECOND PARTY OF	helis SCHART (A. A. STANIS AND	
Client I	Instructions:	CONTRACTOR OF THE CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR AND CONTRACTOR OF THE	A SAN DAY SAN ALATA YARATSA MARAKSA SAN AND MA	ANDREAS AND A CARACTER STORES AND A STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD STANDARD ST		
17. Additional re	emarks:					J
18. Cooler Info	1 1	Seal Intact   Seal No	Seal Date	Signed By		
1		Yes	Joan Date	Orginou by		