Closure Report

Site Description						
Site Name:	Lightning P-38 State #002H					
Company:	COG Operating LLC					
Legal Description:	U/L A, Section 1, T21S, R33E					
County:	Lea County, NM					
GPS Coordinates:	N 32.51731° W 103.51861°					

Release Data							
Date of Release:	10/19/2016						
Type of Release:	Oil						
Source of Release:	Mechanical failure on oil dump valve linkage to FWKO						
Volume of Release:	15 bbls						
Volume Recovered:	10 bbls						

Remediation Specifications							
Remediation Parameters:	Mow the overspray area. Excavate to a depth of 2 feet in the spill area. Obtain confirmation bottom and sidewall samples SP1 and SP2 and in between those 2 points. Backfill the site with clean soil.						
Remediation Activities:	03/10/2017 to 0	3/21/2017					
Plan Sent to OCD:	02/27/2017	Email from Cliff Brunson to Olivia Yu					
OCD Approval of Plan:	CD Approval of Plan: 03/09/2017 Email from Olivia Yu to Cliff Brunson						
Plan Sent to SLO:	02/05/2017 Email from Cliff Brunson to Amber Groves						
SLO Approval of Plan:	02/22/2017	Email from Amber Groves to Cliff Brunson					

Supporting Documentation							
Initial C-141	Signed 10/27/2016						
Final C-141	Signed 04/04/2017						
Site Diagram	January 2017						
Groundwater Plot	75'-100'						
TOPO Maps	January 2017						
Lab Summary	01/12/2017 and 03/15/2017						
Lab Analysis 01/12/2017 and 03/15/2017							
Correspondence	Request and approval of remediation plan via email						

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

04/11/2016

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 87503

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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	ase Notific	atio	n and Co	orrective A	ction				Book and Store Con-
N. CO						OPERA'	<u>ror</u>	×] Initia	al Report	☐ Fin	al Repor
Name of Co Address:			Operation Mid	ng LLC land TX 79701		Contact:	· † .		rt McNe			
Facility Nar	ne: L	IGHTNING	P-38 ST	ATE #002H		Telephone I Facility Typ	Publica Principa, a large la management de la companya de la companya de la companya de la companya de la comp		83-744 Battery		,	
Surface Ow		State	* '	Mineral O								
	11911	- Other							API No	. 30-0	25-40302	***
Unit Letter	Section	Township	Range	LOCA Feet from the		N OF REI		E			***	
A	01	215	33E	1980'		North	Feet from the 330'	East/Wes			County Lea	
			I	atitude 32.516	8495	Longitu	ide 103.518478	4	**************************************			
				NAT	URE	OF RELI		•				
Type of Relea	ise:	O!!				Volume of	Release:		Volume	Recovered		
Source of Rel	ease:	Oil		······································		Date and H	15bbis our of Occurrence	e.	Dote an	10b d Hour of D		
Was Immedia	ta Matian C	FWKO)		entronymus vietos	10-1	19-2016 08:30 ai		CANCE MI	10-19-2016		
vv as minicule	ne Notice O		Yes 🗵	No 🗵 Not Rec	quired	If YES, To	Whom?					
By Whom?						Date and H						
Was a Watero	ourse Reac	hed?	Yes 🛛	No		If YES, Volume Impacting the Watercourse.						
If a Watercou	rse was Imp	acted, Describ	e Fully.*				***************************************					
Describe Cau	se of Proble	m and Remed	ial Action	Taken.*		The state of the s						
	*				· FWK0) sending to f	luid to the flare. R	tepaired th	e dump	valve linkage	on the FV	/KO.
Describe Area	Affected a	nd Cleanup A	ction Take	n.*					- Chiparthurpelpus arman			-
mive the S	pui site sam	ipiea to aeime	ate any po:	ssible contaminat approval prior	ion from to any s	n the release a significant ren	ds a mist area of 3 and we will presented at the work.	nt a remedi	iation we	ork plan to th	e NMOCE) for
public health should their o	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.								er lity			
Signature:	7 2 -						OIL CONS	ERVA7	TION I	DIVISIO	1	
Printed Name	4	Robert	Grubbs Jr.		F	Approved by I	Environmental Sp	ecialist:				
Title:	Sei	nior Environm	ental Coor	dinator		Approval Date	2	Expi	iration D	ate:		
E-mail Addres	55:	rgrubbs@c	oncho.com	1		Conditions of	Approval:	- Comment Rose		Attached		
Date: Octobe				32-683-7443						- 1-3(r) - 1-1		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

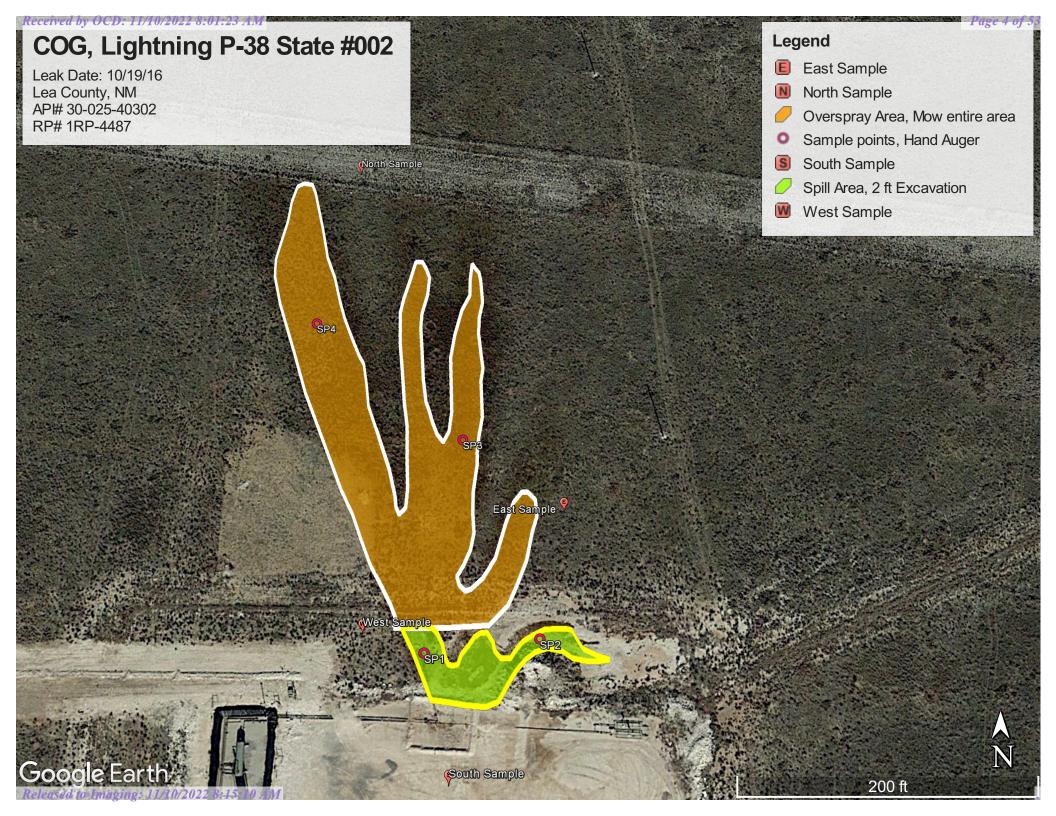
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notifi	catio	n and Co	orrective A	ction			
·						OPERA	TOR	Initi	ial Report	\boxtimes	Final Repor
Name of Company: COG Operating LLC Address: 600 West Illinois Avenue, Midland, TX 79701						Contact: Robert McNeill					
							No. 432-685-43				
Facility Nar	ne: Lignu	ning P-38 St	ate #0021	<u> </u>		Facility Typ	e: Tank Battery	у			
Surface Ow	ner: State			Mineral ()wner:			API No	o. 30-025-4	0302	
				LOCA	ATIO	N OF REI	LEASE				**
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County		
A	01	21S	33E	1980	l	North	330	East	Lea County	, NM	
			I	Latitude <u>N 32.5</u>	1731°	Longitu	ıde <u>W 103.51</u> 86	10	*	,	

Type of Relea	ise Oil		-	NAI	UKE	OF RELI		1 77 1 7			
Source of Rel	ease: FWK	(0					Release: 15 bbls four of Occurrence		Recovered: 1		
		LO					6 @ 8:30 am	1	Hour of Disc 16 @ 8:30 am		
Was Immedia	te Notice C					If YES, To		10/15/20	10 (8) 0.50 411		
		L	Yes 🗵	No 🛛 Not Re	equired						
By Whom?						Date and H					
Was a Watero	ourse Reac	hed?	Yes 🛛	l No		If YES, Vo	lume Impacting th	ne Watercourse.			
If a Watercou		_									
Describe Area Most of this redelineated and Olivia Yu of N I hereby certified regulations all public health of	Affected a elease was countries in the results in MOCD via by that the in operators a per the environment.	coil dump valued a contained with were used to a email on 03/ dformation gives required to comment. The	ction Take in the ber compose a 09/2017, ren above report and	e attached to the F en.* med area of the fl a remediation plan is true and compl d/or file certain re	are. Du	ne to high windediation was come best of my keptifications and MOCD ma	ds, a mist area of completed in accordance of the completed in accordance of the constant of the contract of t	red the dump valve 300' x 100' is local rdance with the residerstand that purstive actions for releport" does not relie at to ground water	uant to NMO	cture. n appr CD ru ay en	The site was oved by
or the environs federal, state, o	nent. In ad	ldition, NMO(JD accept	ance of a C-141 r	eport de	oes not relieve	the operator of re	sponsibility for co	mpliance wit	h any	other
							OIL CONS	ERVATION	DIVISION	1	-
Signature:	Tout	in 1	بر	1							ı
Printed Name:	Robert Gr	ubbs	/			Approved by E	Environmental Spe	ecialist: Ash	ley Ma	Kw	ell
Title: Senior E	Invironmen	tal Coordinate	or			Approval Date	:	Expiration I	Date:		
E-mail Address	s: rgrubbs@	@concho.com		·		Conditions of A	Approval:		Attachad	- , .	
Date: 4/4	1/17		Phone:	(432) 683-7443					Attached [J	
Attach Additio	onal Sheet	s If Necessar								_	

APPROVED

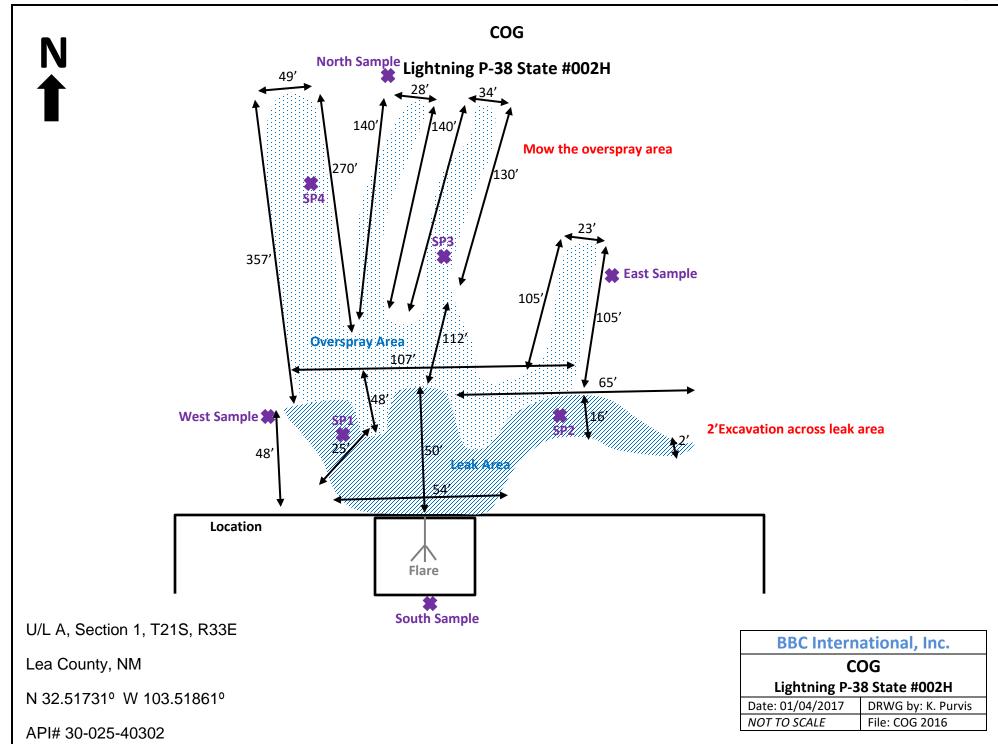
By Ashley Maxwell at 8:11 am, Nov 10, 2022

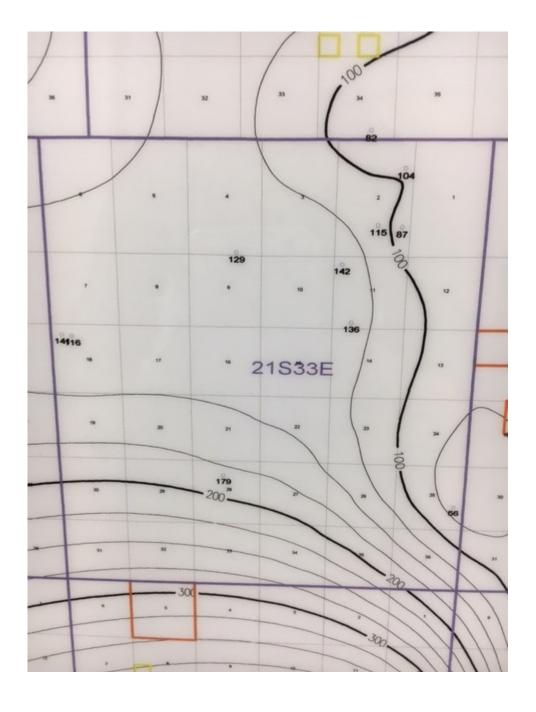


COG, Lightning P-38 State #002

Sample Points, Hand Auger SP1, N 32.51740 W-103.51871 SP2, N 32.51743 W-103.51846 SP3, N 32.51782 W-103.51864 SP4, N 32.51807 W-103.51900

NORTH SAMPLE, N 32.51842 W-103.51891 SOUTH SAMPLE, N 32.51717 W-103.51865 EAST SAMPLE, N 32.51768 W-103.51840 WEST SAMPLE, N 32.51744 W-103.51885







New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

(quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

• •				(1					8			`	/	
		POD Sub-		QQ	Q								,	Water
POD Number	Code	basin	County	64 16	4 S	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDe	pthWater C	column
<u>CP 00611</u>			LE	2	1	06	21S	34E	639838	3598306*	787	118	112	6
<u>CP 00579</u>			LE	2	2	02	21S	33E	637438	3598269*	1613	125	100	25
CP 00796 POD1		CP	LE	2 2	4 (02	21S	33E	637548	3597564*	1670	102		
CP 01335 POD1			LE	4 1	4	35	20S	34E	638205	3599736	1672	1307	735	572

Average Depth to Water:

315 feet

Minimum Depth:

Maximum Depth:

100 feet 735 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 639051 **Northing (Y):** 3598293 **Radius:** 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/11/17 11:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

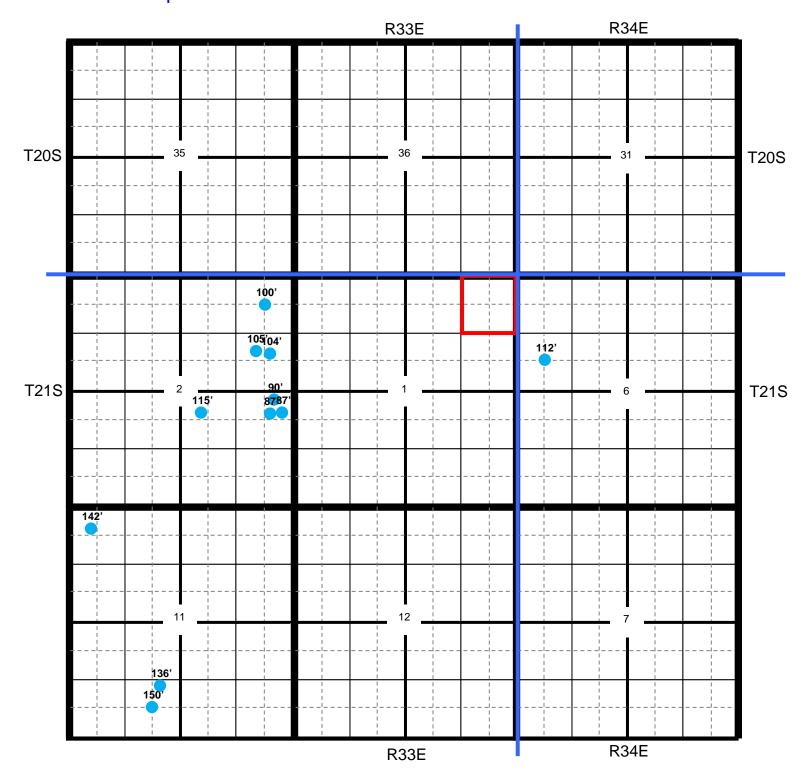
	Public Land S	Survey System (PLSS)								
Q64:	Q16: NE Q4: NE	Sec: 01 Tws: 21S Rng: 33E								
	State Plane Coo	rdinate System - NAD27								
X: ft	Y: ft	Zone:								
	State Plane Coordinate System - NAD83									
X: ft	Y: ft	Zone:								
	Degrees/Minutes/Seconds									
Longitude (X):	Degrees: °	Minutes: ' Seconds: "								
Latitude (Y):	Degrees: °	Minutes: ' Seconds: "								
	UT	M - NAD27								
Easting (X):	mtrs Northing (Y):	mtrs Zone:								
		SUBMIT								
All (Conversion Results are d	lisplayed as <u>NAD 1983 UTM Zone 13</u>								
Easting (X):	639051.0 mtrs	Northing (Y): 3598293.0 mtrs								
	~~ Please keep screen open to copy UTM values for Reports. ~~									

Groundwater Plot

COG Lightning P-38 State #002H

CountyUnit LetterSectionTownshipRangeLeaA121S33E

Trend Map 75'-100'



Section Quarters

COG Lightning P-38 State #002H

CountyUnit LetterSectionTownshipRangeLeaA121S33E

Trend Map 75'-100'

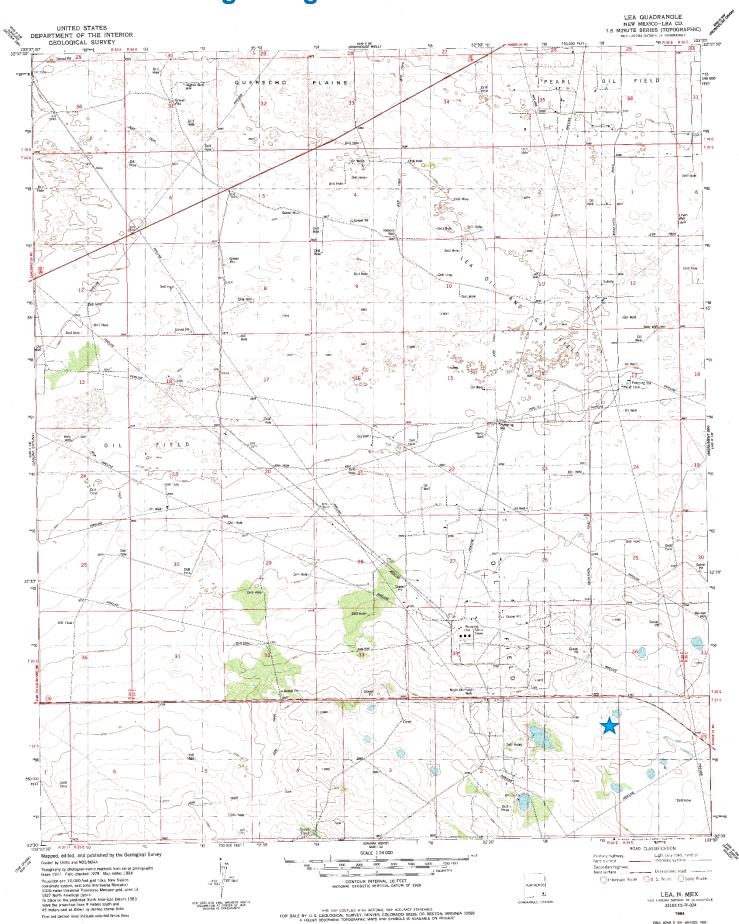
1

NW/NW None found	NE/NW	NW/NE	NE/NE
Unit Letter D SW/NW	Unit Letter C SE/NW	Unit Letter B SW/NE	Unit Letter A SE/NE
Unit Letter E NW/SW	Unit Letter F	Unit Letter G NW/SE	Unit Letter H NE/SE
Unit Letter L SW/SW	Unit Letter K SE/SW	Unit Letter J SW/SE	Unit Letter I SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

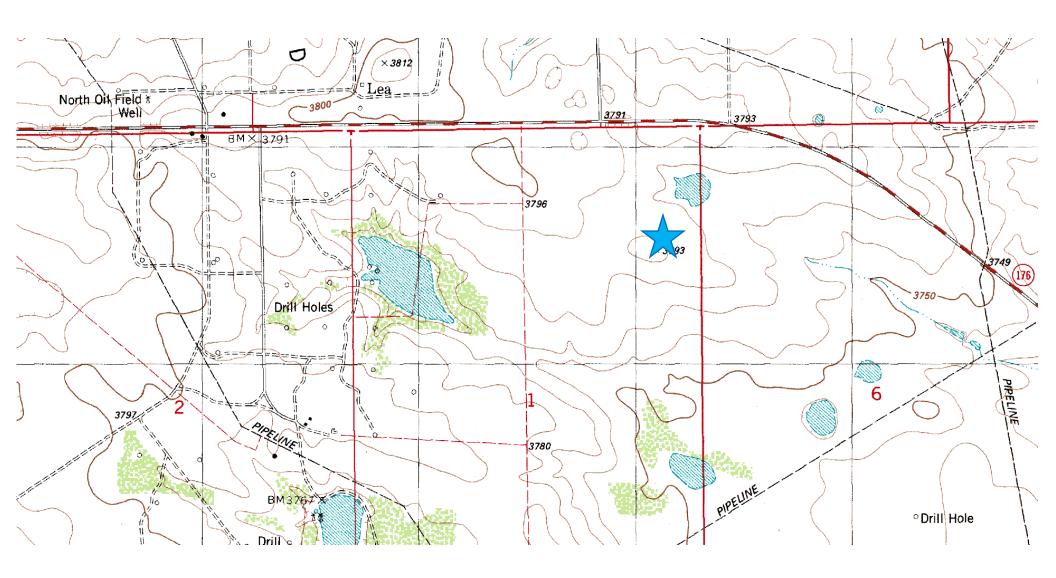
COG

Lightning P-38 State #002H



COG

Lightning P-38 State #002H



Laboratory Analytical Results Summary Lightning P-38 State #002H

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/12/17	1/12/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.13	< 0.050
Ethylbenzene	BTEX 8021B		0.486	< 0.050
Total Xylenes	BTEX 8021B		2.82	< 0.150
Total BTEX	BTEX 8021B		3.44	< 0.300
Chloride	SM4500CI-B		n/a	128
GRO	TPH 8015M		320	<10.0
DRO	TPH 8015M		6980	468

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/12/17	1/12/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.179	< 0.050
Ethylbenzene	BTEX 8021B		0.407	< 0.050
Total Xylenes	BTEX 8021B		2.22	< 0.150
Total BTEX	BTEX 8021B		2.8	< 0.300
Chloride	SM4500CI-B		n/a	n/a
GRO	TPH 8015M		222	<10.0
DRO	TPH 8015M		6400	439

		Sample	SP3 @ SURFACE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP4 @ SURFACE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		n/a
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

	·	Sample	NORTH SAMPLE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B	·	n/a
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST SAMPLE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		n/a
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH SAMPLE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		n/a
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST SAMPLE
Analyte	Method	Date	1/12/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		n/a
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Laboratory Analytical Results Summary Lightning P-38 State #002H

Confirmation		Sample	NORTH SIDEWALL
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		112
GRO	TPH 8015M		<10.0
DRO	TPH 8015M	•	56.2

Confirmation		Sample	EAST SIDEWALL
Analyte	Method	Date	3/1517
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		0.07
Total Xylenes	BTEX 8021B		0.165
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		53.3

Confirmation		Sample	SOUTH SIDEWALL
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		55.6

Confirmation		Sample	WEST SIDEWALL
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		< 0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		56.4

Confirmation		Sample	SP1 @ BOTTOM
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		52.4

Confirmation		Sample	SP2 @ BOTTOM
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		46

Confirmation		Sample	SP3 @ BOTTOM
Analyte	Method	Date	3/15/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		57.6



January 18, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LIGHTNING P38 #2H

Enclosed are the results of analyses for samples received by the laboratory on 01/13/17 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil Project Name: LIGHTNING P38 #2H Sampling Condition: Coo

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 1 @ 1' (H700095-01)

BTEX 8021B	mg,	kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	0.130	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	0.486	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	2.82	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	3.44	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	159	% 73.6-14	0						
TPH 8015M	mg,	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	320	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	6980	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	120	25.145	7						
Surroguie. 1-Chioroociune	138	% 35-147	,						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 1 @ 2' (H700095-02)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/17/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	468	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	75.9 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	88.0 9	% 28-171							

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Celey D. Keine



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 2 @ 1' (H700095-03)

TEX 8021B	mg	/kg	Analyzed By: CK					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346		
Toluene*	0.179	0.050	01/16/2017	ND	2.22	111	2.00	0.116		
Ethylbenzene*	0.407	0.050	01/16/2017	ND	2.24	112	2.00	0.289		
Total Xylenes*	2.22	0.150	01/16/2017	ND	6.31	105	6.00	0.427		
Total BTEX	2.80	0.300	01/16/2017	ND						
Surrogate: 4-Bromofluorobenzene (PID	147	% 73.6-14	0							
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	222	10.0	01/17/2017	ND	212	106	200	3.70		
DRO >C10-C28	6400	10.0	01/17/2017	ND	236	118	200	3.40		
Surrogate: 1-Chlorooctane	129	% 35-147	7							
Surrogate: 1-Chlorooctadecane	196	% 28-171	,							

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 2 @ 2' (H700095-04)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	439	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	91.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	96.8	% 28-171							

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 3 @ SURFACE (H700095-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/17/2017	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	93.7 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.3 9	% 28-171							

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 4 @ SURFACE (H700095-06)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	87.0	% 35-147	7						
Surrogate: 1-Chlorooctadecane	89.0	% 28-171							

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: NORTH (H700095-07)

BTEX 8021B	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	212	106	200	3.70	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	236	118	200	3.40	
Surrogate: 1-Chlorooctane	81.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	87.8	% 28-171	!						

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: EAST (H700095-08)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2017	ND	2.25	113	2.00	0.346	
Toluene*	<0.050	0.050	01/16/2017	ND	2.22	111	2.00	0.116	
Ethylbenzene*	<0.050	0.050	01/16/2017	ND	2.24	112	2.00	0.289	
Total Xylenes*	<0.150	0.150	01/16/2017	ND	6.31	105	6.00	0.427	
Total BTEX	<0.300	0.300	01/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	
Surrogate: 1-Chlorooctane	85.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	89.2	% 28-171							

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SOUTH (H700095-09)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	
Surrogate: 1-Chlorooctane	84.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	87.4	% 28-171							

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Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/13/2017 Sampling Date: 01/12/2017

Reported: 01/18/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 #2H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: WEST (H700095-10)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2017	ND	2.25	112	2.00	1.42	
Toluene*	<0.050	0.050	01/17/2017	ND	2.22	111	2.00	1.47	
Ethylbenzene*	<0.050	0.050	01/17/2017	ND	2.24	112	2.00	1.26	
Total Xylenes*	<0.150	0.150	01/17/2017	ND	6.34	106	6.00	1.39	
Total BTEX	<0.300	0.300	01/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2017	ND	211	105	200	3.72	
DRO >C10-C28	<10.0	10.0	01/17/2017	ND	231	116	200	1.17	
Surrogate: 1-Chlorooctane	77.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	79.0	% 28-171							

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keene

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

RDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

city: Hobbs Relinquished By: Project Manager: Cliff Brunson Company Name: BBC International, Inc. Sampler - UPS Sampler Name: Project Name: Project #: Phone #: 575-397-6388 Address: P.O. Box 805 Project Location: Delivered By: (Circle One) FOR LAB USE ONLY Lab I.D. 505) 393-2326 FAX (505) 393-2476 Bus - Other: Sample I.D. 0 Fax #: Time: Project Owner: State: NM inque 575-397-0397 Zip: POPP GORABOR (C)OMP Received By # CONTAINERS erved By 88241 GROUNDWATER Cool Intact
Pyes Pyes
No No Sample Condition WASTEWATER SOIL MATRIX OIL SLUDGE State: P.O. #: OTHER Phone #: Attn: Address: Company ACID/BASE: PRESERV CE / COOL BILL TO OTHER Zip: Phone Result: Fax Result: REMARKS: 725 200 6 20 Yes 8 8 8 Add'I Fax #: ANALYSIS REQUEST



March 21, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LIGHTNING P38

Enclosed are the results of analyses for samples received by the laboratory on 03/15/17 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Reported: 03/21/2017

Project Name: LIGHTNING P38
Project Number: NONE GIVEN

Project Location: COG

Sampling Date: 03/15/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: NORTH SIDEWALL (H700689-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	<0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	<0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	<0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	?						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	56.2	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	78.3 9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	70.7	26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

 Received:
 03/15/2017
 Sampling Date:
 03/15/2017

 Reported:
 03/21/2017
 Sampling Type:
 Soil

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: EAST SIDEWALL (H700689-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	<0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	0.070	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	0.165	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	53.3	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	67.8	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	65.3	% 26.8-17	0						

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Celey D. Keine



Analytical Results For:

BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Sampling Date: 03/15/2017

Reported: 03/21/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: SOUTH SIDEWALL (H700689-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	< 0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	< 0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	< 0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	55.6	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	82.2 9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	79.2 9	% 26.8-17	0						

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Celey & Keene



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Sampling Date: 03/15/2017

Reported: 03/21/2017 Sampling Type: Soil Project Name: LIGHTNING P38 Sampling Condition: Coo

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: WEST SIDEWALL (H700689-04)

Analyte	mg/kg Analyzed By: MS								
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recov	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	< 0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	<0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	<0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	}						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	56.4	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	72.4 %	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	71.69	% 26.8-17	0						

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Celey D. Keene



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Sampling Date: 03/15/2017

Reported: 03/21/2017 Sampling Type: Soil Project Name: LIGHTNING P38 Sampling Condition: Coo

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: 1 BOTTOM (H700689-05)

BTEX 8021B Analyte	mg/	kg	Analyze	d By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	< 0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	<0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	<0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	<0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	7						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	52.4	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	82.4 9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	83.7 9	% 26.8-17	0						

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Celey D. Keene



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Sampling Date: 03/15/2017

Reported: 03/21/2017 Sampling Type: Soil Project Name: LIGHTNING P38 Sampling Condition: Coo

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: 2 BOTTOM (H700689-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	<0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	<0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	<0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 72-148	,						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	46.0	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	89.1 9	6 25.1-15	8						
Surrogate: 1-Chlorooctadecane	89.8 9	6 26.8-17	0						

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Celey D. Keene



Analytical Results For:

BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 03/15/2017 Sampling Date: 03/15/2017

Reported: 03/21/2017 Sampling Type: Soil

Project Name: LIGHTNING P38 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: COG

Sample ID: 3 BOTTOM (H700689-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/20/2017	ND	2.04	102	2.00	0.182	
Toluene*	<0.050	0.050	03/20/2017	ND	1.93	96.7	2.00	0.0974	
Ethylbenzene*	<0.050	0.050	03/20/2017	ND	1.95	97.4	2.00	0.357	
Total Xylenes*	<0.150	0.150	03/20/2017	ND	5.57	92.9	6.00	0.565	
Total BTEX	<0.300	0.300	03/20/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/20/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/17/2017	ND	182	91.0	200	4.18	
DRO >C10-C28	57.6	10.0	03/17/2017	ND	196	97.8	200	0.645	
Surrogate: 1-Chlorooctane	88.2 9	25.1-15	8						
Surrogate: 1-Chlorooctadecane	79.4 9	6 26.8-17	0						

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Celey D. Kune



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

From: Yu, Olivia, EMNRD

To: <u>Cliff Brunson</u>; <u>"Kathy Purvis"</u>

Cc: Oberding, Tomas, EMNRD; "Robert Grubbs"; Houston, Kristen, EMNRD; agroves@slo.state.nm.us; Ken Swinney;

Jennifer Gilkey

Subject: RE: COG - Lightning P-38 State #002H - Remediation Plan

Date: Thursday, March 9, 2017 2:35:05 PM

Attachments: Approvedworkplan 1RP4487 Remediation Packet Lightning P-38 State #002H.pdf

Dear All:

NMOCD approves the delineation workplan for 1RP-4487 with conditions below accepted. Please see the attachment for your records.

Olivia

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, February 27, 2017 4:43 PM

To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; 'Kathy Purvis' <kathy@bbcinternational.com>

Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; 'Robert Grubbs'

<RGrubbs@concho.com>; Houston, Kristen, EMNRD <Kristen.Houston@state.nm.us>;
agroves@slo.state.nm.us; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey

<jgilkey@bbcinternational.com>

Subject: RE: COG - Lightning P-38 State #002H - Remediation Plan

Olivia,

Your approval is appreciated. Per our conversation, I wanted to reply to your email with some clarification on the listed conditions.

- 1. Excavation will be to a depth of 2 ft. bgs.
- 2. Confirmation bottom and sidewall samples will be taken of SP1-2. No excavation will occur for SP 3-4 as this is the overspray area and the previous samples were below limits. This is the area that will be mowed that has been approved by the SLO. No additional samples will be taken in the overspray area. A bottom sample will be taken between SP1 & SP2.
- 3. Documentation of depth to groundwater in the format that you have requested will be included in the final report.
- 4. A scaled digital map will be included in the final report as we agreed and we discussed the discrepancy between GPS coordinates so now everyone is on the same page.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:

1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Friday, February 17, 2017 4:01 PM

To: 'Cliff Brunson' < cbrunson@bbcinternational.com">cbrunson@bbcinternational.com 'Kathy Purvis' < kathy@bbcinternational.com

Cc: Oberding, Tomas, EMNRD <<u>Tomas.Oberding@state.nm.us</u>>; 'Robert Grubbs' <<u>RGrubbs@concho.com</u>>; Lynch, Kristen, EMNRD <<u>Kristen.Lynch@state.nm.us</u>>;

'agroves@slo.state.nm.us' <a groves@slo.state.nm.us>

Subject: COG - Lightning P-38 State #002H - Remediation Plan

Dear Mr. Brunson:

The workplan for 1RP-4487 is approved with the following conditions.

- 1) Excavate contaminated soil to a depth of 2 ft. bgs.
- 2) Confirmation bottom and sidewall samples of SP1-4 and North, South, East, and West Samples. Additionally, take a soil sample between SP1 & SP2, between SP3 & SP4, between SP3 & East Sample, and west of SP4 (beyond the western border of the release).
- 3) Provide documentation of depth to groundwater (i.e., pdf of OSE search or copy of Chevron water trend map).
- 4) A scaled digital map with the release area demarcated and georeferenced locations of sample points. This is important given that the GPS coordinates provided on the submitted initial C141 differs from the GPS coordinates on the drawing on page 2.

Also, this release occurred on a State lease, so approval from the State Land Office regarding the mowing of vegetation in the overspray area as a corrective action is required.

Please confirm these conditions.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I

Olivia.yu@state.nm.us

575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson

Sent: Saturday, January 28, 2017 6:44:55 PM (UTC-07:00) Mountain Time (US & Canada)

To: Lynch, Kristen, EMNRD

Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** COG - Lightning P-38 State #002H - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the COG Lightning P-38 State #002H release. I have attached the information packet that we used in our discussion on 2/25/17 with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber

To: Yu, Olivia, EMNRD; "Cliff Brunson"; "Kathy Purvis"

Cc: Oberding, Tomas, EMNRD; "Robert Grubbs"; Lynch, Kristen, EMNRD

Subject: RE: COG - Lightning P-38 State #002H - Remediation Plan

Date: Wednesday, February 22, 2017 8:31:36 AM

Attachments: <u>image002.png</u>

image001.png

Good Morning, Cliff,

NMSLO agrees with NMOCD's work plan approval and conditions.

Thank you,

Amber Groves

Remediation Specialist
Field Operations Division
(575)392-3697
(575)263-3209 cell
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88260

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Friday, February 17, 2017 4:01 PM

To: 'Cliff Brunson' <cbrunson@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>

Cc: Oberding, Tomas, EMNRD <Tomas.Oberding@state.nm.us>; 'Robert Grubbs'

<RGrubbs@concho.com>; Lynch, Kristen, EMNRD <Kristen.Lynch@state.nm.us>; Groves, Amber <agroves@slo.state.nm.us>

Subject: COG - Lightning P-38 State #002H - Remediation Plan

Dear Mr. Brunson:

The workplan for 1RP-4487 is approved with the following conditions.

1) Excavate contaminated soil to a depth of 2 ft. bgs.

- 2) Confirmation bottom and sidewall samples of SP1-4 and North, South, East, and West Samples. Additionally, take a soil sample between SP1 & SP2, between SP3 & SP4, between SP3 & East Sample, and west of SP4 (beyond the western border of the release).
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Please confirm these conditions.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 157581

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	157581
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	11/10/2022