Bratcher, Mike, EMNRD

From:	Groves, Amber <agroves@slo.state.nm.us></agroves@slo.state.nm.us>
Sent:	Thursday, December 14, 2017 11:08 AM
То:	Weaver, Crystal, EMNRD; Matt Buckles
Cc:	Bratcher, Mike, EMNRD; Lee Livingston; Jerry Sherrell; Cliff Brunson
Subject:	RE: C-141 on the Klondike Release 2RP-4446

Matt,

While NMSLO agrees with the below stipulations set forth by NMOCD, your plan is denied due to the lack of a revegetation portion. Please revise and resubmit.

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 88240



*The New Mexico State Land Office will be closed from 12/22/2017 at 1pm - 01/01/2018. The office will reopen on 01/02/2018. Happy Holidays!

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From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]
Sent: Monday, December 11, 2017 3:41 PM
To: Matt Buckles <mattbuckles@mec.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Groves, Amber <a groves@slo.state.nm.us>; Lee Livingston <leel@mec.com>; Jerry Sherrell <jerrys@mec.com>; Cliff Brunson <cbrunson@bbcinternational.com>
Subject: RE: C-141 on the Klondike Release 2RP-4446

RE: Mack Energy * Klondike State Lease * 30-005-64295 * 2RP-4446

Matt/Cliff,

The site characterization/work plan is approved with the following conditions:

- It states in the proposal that "The area near SP1 SP5, SP8 SP10, SP12, and SP13 (yellow shade on diagram) will be excavated to a depth of 1 foot. The area near SP6 and SP11 (purple shade on diagram) will be excavated to a depth of 2 feet. The area near SP7 (blue shade on diagram) will be excavated to a depth of 3 feet." OCD will require that all of these areas will be excavated through the interval they state i.e. SP-7 area will be excavated through to the 4ft depth etc. Otherwise bottom hole lab confirmation samples will be required every 50 ft. in every cardinal direction within the spill plume. OCD has reason to believe that within the area that this release occurred in that shallow ground water may be likely to be encountered. Therefore, OCD would prefer that this release get remediated to the full extent practicable.
- Please provide representative sidewall lab tested samples of the excavated areas that are demarked on your map as the 2' and 3' areas.

Please notify OCD once remedial activities have been scheduled.

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.

If you have any questions or concerns, and for notification, please contact Mike Bratcher and/or myself in the District II Office.

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street Artesia, NM 88210 Office: 575-748-1283 ext. 101 Cell: 575-840-5963 Fax: 575-748-9720

-----Original Message-----

From: Matt Buckles [mailto:mattbuckles@mec.com]

Sent: Monday, November 20, 2017 3:00 PM

To: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; <u>agroves@slo.state.nm.us</u>; Lee Livingston <<u>leel@mec.com</u>>; Jerry Sherrell <<u>jerrys@mec.com</u>>; Cliff Brunson <<u>cbrunson@bbcinternational.com</u>> Subject: Re: C-141 on the Klondike Release 2RP-4446

Attached is the site characterization plan and work plan. Please let me know if you have any questions or concerns.

Thanks,

Matt Buckles

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Bratcher, Mike, EMNRD

From:	Cliff Brunson <cbrunson@bbcinternational.com></cbrunson@bbcinternational.com>
Sent:	Thursday, December 14, 2017 11:19 AM
То:	'Groves, Amber'; Weaver, Crystal, EMNRD; 'Matt Buckles'
Cc:	Bratcher, Mike, EMNRD; 'Lee Livingston'; 'Jerry Sherrell'
Subject:	RE: C-141 on the Klondike Release 2RP-4446
Attachments:	Delineation Workplan, Klondike State Lease.pdf

Amber,

I missed putting the revegetation portion in the plan. My apologies. It is now included on page 4 of the attached plan.

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: <u>cbrunson@bbcinternational.com</u>



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Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Lee Livingston <leel@mec.com>; Jerry Sherrell
<jerrys@mec.com>; Cliff Brunson <cbrunson@bbcinternational.com>
Subject: RE: C-141 on the Klondike Release 2RP-4446

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1

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Amber Groves



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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 88240

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Sent: Monday, December 11, 2017 3:41 PM

To: Matt Buckles <<u>mattbuckles@mec.com</u>>

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RE: Mack Energy * Klondike State Lease * 30-005-64295 * 2RP-4446

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The site characterization/work plan is approved with the following conditions:

- It states in the proposal that "The area near SP1 SP5, SP8 SP10, SP12, and SP13 (yellow shade on diagram) will be excavated to a depth of 1 foot. The area near SP6 and SP11 (purple shade on diagram) will be excavated to a depth of 2 feet. The area near SP7 (blue shade on diagram) will be excavated to a depth of 3 feet." OCD will require that all of these areas will be excavated through the interval they state i.e. SP-7 area will be excavated through to the 4ft depth etc. Otherwise bottom hole lab confirmation samples will be required every 50 ft. in every cardinal direction within the spill plume. OCD has reason to believe that within the area that this release occurred in that shallow ground water may be likely to be encountered. Therefore, OCD would prefer that this release get remediated to the full extent practicable.
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Crystal Weaver

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Attached is the site characterization plan and work plan. Please let me know if you have any questions or concerns.

Thanks, Matt Buckles

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PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

MACK ENERGY – KLONDIKE STATE LEASE (Leak Date: 10/15/17)

RP # 2RP-4446 API NO. 30-005-64295

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4446.

The following information includes:

- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
- 4. Laboratory analysis results summary table and original laboratory analysis reports
- 5. A copy of the initial C-141
- 6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

Mack Energy will excavate the spill area as depicted on the following site diagram. The area near SP1 – SP5, SP8 – SP10, SP12, and SP13 (yellow shade on diagram) will be excavated to a depth of 1 foot. The area near SP6 and SP11 (purple shade on diagram) will be excavated to a depth of 2 feet. The area near SP7 (blue shade on diagram) will be excavated to a depth of 3 feet.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Mack Energy, Klondike State Lease

Sample points, hand auger/backhoe SP1, N 32.98606 W-104.09817 SP2, N 32.98616 W-104.09811 SP3, N 32.98629 W-104.09802 SP4, N 32.98642 W-104.09794 SP5, N 32.98654 W-104.09786 SP6, N 32.98667 W-104.09777 SP7, N 32.98679 W-104.09769 SP8, N 32.98655 W-104.09793 SP9, N 32.98632 W-104.09808 SP10, N 32.98620 W-104.09815 SP11, N 32.98609 W-104.09822 SP12, N 32.98613 W-104.09829 SP13, N 32.98634 W-104.09814 N1, N 32.98637 W-104.09820 E1, N 32.98664 W-104.09788 W1, N 32.98601 W-104.09830 S1, N 32.98631 W-104.09806 N2, N 32.98641 W-104.09799 E2, N 32.98693 W-104.09758 W2, N 32.98599 W-104.09822 S2, N 32.98639 W-104.09788



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New Mexico State Land Office Revegetation and Noxious Weed Management Plan

MACK ENERGY – KLONDIKE STATE LEASE

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. Since the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Gramma grass – 40% - 1.5 lbs. PLS Buffalo grass – 40% - 1.5 lbs. PLS Side oats – 10% - 0.5% lbs. PLS Four wing Salt bush – 10% - 1.5 lbs. PLS

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

Received by OCD: 9/19/2024 1:34:33 PM

?

New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 584061

Northing (Y): 3650003

Radius: 1700

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

10/23/17 12:25 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Released to Imaging: 9/19/2024 1:36:25 PM http://nmwrrs.ose.state.nm.us/...22%203650003.0%20%22%2C%0A%22R%22%3A%221700%22%2C%0A%22PLSSDiv%22%3A%22false%22%7D[10/23/2017 12:25:46 PM]

UTM Conversion Tool Received by OCD: 9/19/2024 1:34:33 PM

0	Public Land Survey System (PLSS) Q64: Q16: Q4: 4 Sec: 26 Tws: 155 Rng: 28E
0	State Plane Coordinate System - NAD27 X: 0 ft Y: 0 ft Zone:
0	State Plane Coordinate System - NAD83 X: 0 ft Y: 0 ft Zone:
0	Degrees/Minutes/Seconds Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
0	UTM - NAD27 Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:
	All Conversion Results are displayed as <u>NAD 1983 UTM Zone 13</u> Easting (X): 584061.0 mtrs Northing (Y): 3650003.0 mtrs

SP1@13'

SP1@8'

SP1@3'

SP1@2'

SP1 @ 1'

Sample ID

10/24/17

10/24/17

10/24

10/24/

10/18/17

Date

Method

Analyte

3TEX 8021B

Benzene

		-	11 0 0 0 0	10 0 0 0 0		.010
		sample IU	Sample ID SP8 @ 1	SP8 (0 2	2 B 8 4 5	212 @ 17
Analyte	Method	Date	10/18/17	10/25/17	10/25/17	10/25/17
			mg/kg	mg/kg	ba/kgm	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		7730	32	48	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

mg/kg n/a n/a n/a 112 112 112 n/a n/a n/a

mg/kg n/a n/a n/a 112 112 n/a n/a

mg/kg n/a n/a n/a **336** 3**36** n/a n/a n/a

mg/kg n/a n/a n/a n/a n/a n/a n/a n/a

 mg/kg

 <0.050</td>

 <0.000</td>

 <0.

BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B SM4500Cl-B TPH 8015M TPH 8015M

Chloride GRO EXT DRO

DRO

			~ 10.0	1/0	II/d	1/14
	Ś	ample ID	Sample ID SP9 @ 1'	SP9@2'	SP9@7' SP9@12'	.21 @ 6dS
Analyte Method	ро	Date	10/18/17	10/25/17	10/25/17	10/25/17
			mg/kg	mg/kg	mg/kg	63/6m
Chloride SM4500CI-B	OCI-B		8400	160	48	48

SP2 @ 13' 10/24/17

SP2 @ 8'

SP2 @ 3'

SP2@2' 10/24/17 mg/kg 256

SP2 @ 1'

Sample ID Date

<10.0

10/18/17

Method

Analyte

mg/kg 8530

SM4500CI-B

Chloride

10/24/17

10/24/17

mg/kg 112

mg/kg 128

mg/kg **336**

SP3@13'

SP3 @ 8'

SP3@3'

SP3 @ 2'

SP3 @ 1'

Sample ID Date

Method

Analyte

10/18/17

10/24/17 mg/kg **192**

10/24/17 mg/kg **144**

10/24/17 mg/kg **160**

10/24/17 mg/kg 224

mg/kg 12500

SM4500CI-B

Chloride

SP4 @ 12'

SP4@7' 10/24/17

SP4@2'

SP4 @ 1'

Sample ID Date

Method

Analyte

nzene

10/24/17

10/18/17

0/24/17

mg/kg n/a n/a n/a n/a **96**

mg/kg n/a n/a n/a n/a **96** n/a n/a n/a n/a

mg/kg n/a n/a n/a n/a **64** n/a n/a n/a

mg/kg <0.050 <0.050 <0.150 <0.150 <0.300 <0.300 8930 <10.0 <10.0 <10.0

BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B SM4500CI-B

oluene B Ethylbenzene P Total Xylenes ^f Total BTEX

Chloride

GRO

R

		Cample ID	Sample ID SP10@1'	SP10 @ 2'		SP10 @ 7' SP10 @ 12'	
Analyte	Method	Date	10/18/17			10/25/17	
			mg/kg	mg/kg	mg/kg	mg/kg	
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	
Chloride	SM4500CI-B		11200	16	32	32	
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	
ехт рго	TPH 8015M		<10.0	n/a	n/a	n/a	
							_
		Sample ID	SP11@1	Sample ID SP11 @ 1' SP11 @ 2'	SP11 @ 3'	SP11@8' SP11	SP11

		Sample ID	Sample ID SP11@1' SP11@2' SP11@3' SP11@8' SP11@13'	SP11 @ 2'	SP11 @ 3'	SP11@8'	SP11 @ 13'
Analyte	Method	Date	10/18/17	10/25/17	10/25/17	10/25/17	10/25/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		10600	1140	192	32	32

SP6 @8' SP6 @ 13'

SP6@3'

SP6@2'

SP6 @ 1'

SP5 @ 12'

SP5@7' 10/24/17 mg/kg **96**

SP5@2'

SP5 @ 1'

<10.0

TPH 8015M TPH 8015M TPH 8015M

EXT DRO

10/24/17

10/18/17

Sample ID Date

Method

Analyte

n/a n/a n/a 10/24/17

mg/kg 32

mg/kg 64

mg/kg 6000

SM4500CI-B

Chloride

10/24/17

10/24/17

10/24/17

10/24/17

10/18/17

Sample ID Date

Method

Analyte

mg/kg mg/kg mg/kg

mg/kg mg/kg

		Sample ID	Sample ID SP12 @ 1'	SP12 @ 2'	SP12 @ 7' SP12 @ 12'	SP12 @ 12'
Analyte	Method	Date	10/18/17	10/25/17	10/25/17	10/25/17
			mg/kg	mg/kg	mg/kg	ba/gm
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		0006	16	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a

Chloride	SM4500CI-B		8400	2160	16	32	16	
		Sample ID	SP7 @ 1'	SP7@2'	SP7@3'	SP7@4'	SP7 @ 9'	SP7 @ 14'
Analyte	Method	Date	10/18/17	10/24/17	10/24/17	10/24/17	10/24/17	10/24/17
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0:050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0:050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
T otal BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		8660	2360	1800	80	32	16
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	e/u	n/a	n/a	n/a	n/a

.

Toluene [Ethylbenzene [Total Xylenes [Total BTEX [

		Sample ID SP13@ 1' SP13@ 2' SP13@ 7' SP13@ 12'	SP13@1.	SP13 @ 2'	SP13 @ 7'	SP13 @ 12'
Analyte	Method	Date	10/18/17	10/25/17	10/25/17	10/25/17
			mg/kg	mg/kg	mg/kg	mg/kg
Chloride	SM4500CI-B		13600	112	192	176
		Sample ID Surface	N1 @ Surface			

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		Sample ID	Surface
Analyte	Method	Date	10/18/17
			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		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0
			E1 @

		Sample ID	Surface
Analyte	Method	Date	10/18/17
			mg/kg
Chloride	SM4500CI-B		80
			W1@
		Sample ID	Surface
Analyte	Method	Date	10/18/17
			mg/kg
Chloride	SM4500CI-B		208

			S1@
		Sample ID	Surface
Analyte	Method	Date	10/18/17
			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		208
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample ID	N2 @ Surface
Analyte	Method	Date	1 0/1 8/1 7
			mg/kg
Benzene	BTEX 8021B	B	<0:050
Toluene	BTEX 8021B	B	<0:050
Ethylbenz	Ethylbenz BTEX 8021B	B	<0:050
Total Xyle	Fotal Xyle BTEX 8021B	B	<0.150
Fotal BTE	Fotal BTE BTEX 8021B	B	<0.300
Chloride	SM4500CI-B	æ	80
GRO	TPH 8015M	5	<10.0
DRO	TPH 8015M	5	<10.0
EXT DRO	TPH 8015M	5	<10.0

		Sample ID	E2 @ Surface
Analyte	Method	Date	10/18/17
			mg/kg
Chloride	SM4500CI-B	æ	64
			M2@
		Sample ID	Surface
Analyte	Method	Date	1 0/1 8/1 7
			mg/kg
Chloride	SM4500CI-B	æ	160

Analyte Method Date Benzene BTEX 8021B Ethylbenze Foluene BTEX 8021B Ethylbenze Toluene SM450001-B Ethylbenze GRO TPH 8015M Ethylbenze DRO TPH 8015M Ethylbenze			Sample ID	S2 @ Surface
Berzene BTEX 8021B Berzene BTEX 8021B BETOLIDEE BTEX 8021B Ethylbenzi BTEX 8021B Total Xyle BTEX 8021B Total Xyle BTEX 8021B Chloride SM4500Cl-B GRO TPH 8015M DRO TPH 8015M	Analyte	Method	Date	10/18/17
Benzene BTEX 8021B Toluene BTEX 8021B Ethylbench BTEX 8021B Total Xyle BTEX 8021B Total Xyle BTEX 8021B Total Xyle BTEX 8021B Chloride SM4500CHB GRO TPH 8015M DRO TPH 8015M				by/gm
Toluene BTEX 8021B Ethylbenzel BTEX 8021B Total XyLe 8021B Total XyLe 8021B Total XyLe 8021B Chloride SM4500Cl-B GRO TPH 8015M DRO TPH 8015M EXTERD TPH 8015M	Benzene	BTEX 8021	B	<0:050
Ethylbenz BTEX 8021B Total Xyle BTEX 8021B Total Xyle BTEX 8021B Choride E SM4500C1-B GRO TPH 8015M FXTPRO TPH 8015M	Toluene	BTEX 8021	B	<0:050
Total Xyle BTEX 8021B Total BTE BTEX 8021B Total BTE BTEX 8021B Chloride Chloride SM4500Cl-B GRO TPH 8015M DRO TPH 8015M	Ethylbenz	BTEX 8021	B	<0.050
Total BTE 8TEX 8021B Chloride SN4500Cl-B GRO TPH 8015M DRO TPH 8015M	Total Xyle	BTEX 8021	B	<0.150
ide Car	Total BTE	BTEX 8021	B	<0.300
	Chloride	SM4500CI-	æ	208
DRO TPH 8015M FXT DRO TPH 8015M	GRO	TPH 8015N	5	<10.0
EXT DRO TPH 8015M	DRO	TPH 8015N	V	<10.0
	EXT DRO	TPH 8015N	v	<10.0



November 02, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: KLONDIKE STATE LEASE

Enclosed are the results of analyses for samples received by the laboratory on 10/26/17 17:00.

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/qa/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 1 @ 1' (H702951-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/30/2017	ND	1.98	99.1	2.00	1.64	
Toluene*	<0.050	0.050	10/30/2017	ND	2.00	100	2.00	0.412	
Ethylbenzene*	<0.050	0.050	10/30/2017	ND	2.06	103	2.00	0.883	
Total Xylenes*	<0.150	0.150	10/30/2017	ND	6.26	104	6.00	1.13	
Total BTEX	<0.300	0.300	10/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 72-148							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1960	16.0	10/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	83.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.9	% 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 1 @ 2' (H702951-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/31/2017	ND	448	112	400	0.00	

Sample ID: SP 1 @ 3' (H702951-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/31/2017	ND	448	112	400	0.00	

Sample ID: SP 1 @ 8' (H702951-04)

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	10/31/2017	ND	448	112	400	0.00	

Sample ID: SP 1 @ 13' (H702951-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/31/2017	ND	448	112	400	0.00	

Sample ID: SP 2 @ 1' (H702951-06)

Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	10/31/2017	ND	448	112	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 2 @ 2' (H702951-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 2 @ 3' (H702951-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 2 @ 8' (H702951-09)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 2 @ 13' (H702951-10)

Chloride, SM4500CI-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	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 3 @ 1' (H702951-11)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	10/31/2017	ND	432	108	400	7.69	

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Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 3 @ 2' (H702951-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 3 @ 3' (H702951-13)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 3 @ 8' (H702951-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 3 @ 13' (H702951-15)

Chloride, SM4500Cl-B	mg	/kg	Analyzed B						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/31/2017	ND	432	108	400	7.69	

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BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 4 @ 1' (H702951-16)

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	10/30/2017	ND	1.98	99.1	2.00	1.64	
Toluene*	<0.050	0.050	10/30/2017	ND	2.00	100	2.00	0.412	
Ethylbenzene*	<0.050	0.050	10/30/2017	ND	2.06	103	2.00	0.883	
Total Xylenes*	<0.150	0.150	10/30/2017	ND	6.26	104	6.00	1.13	
Total BTEX	<0.300	0.300	10/30/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 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	8930	16.0	10/31/2017	ND	432	108	400	7.69	
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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	87.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 4 @ 2' (H702951-17)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 4 @ 7' (H702951-18)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 4 @ 12' (H702951-19)

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	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 5 @ 1' (H702951-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 5 @ 2' (H702951-21)

Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/31/2017	ND	432	108	400	7.69	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 5 @ 7' (H702951-22)

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	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 5 @ 12' (H702951-23)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC	: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	10/31/2017	ND	432	108	400	7.69			

Sample ID: SP 6 @ 1' (H702951-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 6 @ 2' (H702951-25)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	10/31/2017	ND	432	108	400	7.69	

Sample ID: SP 6 @ 3' (H702951-26)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/31/2017	ND	432	108	400	7.69	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 6 @ 8' (H702951-27)

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	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 6 @ 13' (H702951-28)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/01/2017	ND	416	104	400	3.77	

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*=Accredited Analyte

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 7 @ 1' (H702951-29)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	QR-03
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	8660	16.0	11/01/2017	ND	416	104	400	3.77	
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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	79.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.6	% 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/24/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 7 @ 2' (H702951-30)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 7 @ 3' (H702951-31)

Chloride, SM4500Cl-B	mg,	′kg	Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	11/01/2017	ND	416	104	400	3.77		

Sample ID: SP 7 @ 4' (H702951-32)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 7 @ 9' (H702951-33)

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	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 7 @ 14' (H702951-34)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/01/2017	ND	416	104	400	3.77	

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 8 @ 1' (H702951-35)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 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	7730	16.0	11/01/2017	ND	416	104	400	3.77	
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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	88.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 8 @ 2' (H702951-36)

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	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 8 @ 7' (H702951-37)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 8 @ 12' (H702951-38)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 9 @ 1' (H702951-39)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 9 @ 2' (H702951-40)

Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/01/2017	ND	416	104	400	3.77	

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 9 @ 7' (H702951-41)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 9 @ 12' (H702951-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/01/2017	ND	416	104	400	3.77	

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 10 @ 1' (H702951-43)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	11200	16.0	11/01/2017	ND	416	104	400	3.77	
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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	92.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.6	% 34.7-15	7						

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 10 @ 2' (H702951-44)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 10 @ 7' (H702951-45)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	11/01/2017	ND	416	104	400	3.77			

Sample ID: SP 10 @ 12' (H702951-46)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/01/2017	ND	416	104	400	3.77	

Sample ID: SP 11 @ 1' (H702951-47)

Chloride, SM4500Cl-B	mg	mg/kg Ar		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 11 @ 2' (H702951-48)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	11/01/2017	ND	432	108	400	0.00	QM-07

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 11 @ 3' (H702951-49)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 11 @ 8' (H702951-50)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 11 @ 13' (H702951-51)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/01/2017	ND	432	108	400	0.00	

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 12 @ 1' (H702951-52)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148							
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	11/01/2017	ND	432	108	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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	90.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.1	% 34.7-15	7						

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 12 @ 2' (H702951-53)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 12 @ 7' (H702951-54)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 12 @ 12' (H702951-55)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 13 @ 1' (H702951-56)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 13 @ 2' (H702951-57)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/01/2017	ND	432	108	400	0.00	

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Received:	10/26/2017	Sampling Date:	10/25/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: SP 13 @ 7' (H702951-58)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: SP 13 @ 12' (H702951-59)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/01/2017	ND	432	108	400	0.00	

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: N1 @ SURFACE (H702951-60)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/01/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	86.0 % 28.3-16		4						
Surrogate: 1-Chlorooctadecane	87.6	% 34.7-15	7						

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: E1 @ SURFACE (H702951-61)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: W1 @ SURFACE (H702951-62)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/01/2017	ND	432	108	400	0.00	

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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: S1 @ SURFACE (H702951-63)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 72-148	2						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/01/2017	ND	432	108	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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	82.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.3	% 34.7-15	7						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: N2 @ SURFACE (H702951-64)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	,						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/01/2017	ND	432	108	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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	83.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.8	% 34.7-15	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: E2 @ SURFACE (H702951-65)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/01/2017	ND	432	108	400	0.00	

Sample ID: W2 @ SURFACE (H702951-66)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/01/2017	ND	432	108	400	0.00	

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson P.O. Box 805 Hobbs NM, 88241 Fax To: (575) 397-0397

Received:	10/26/2017	Sampling Date:	10/18/2017
Reported:	11/02/2017	Sampling Type:	Soil
Project Name:	KLONDIKE STATE LEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MACK ENERGY - CHAVES CO NM		

Sample ID: S2 @ SURFACE (H702951-67)

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	10/31/2017	ND	1.91	95.4	2.00	2.78	
Toluene*	<0.050	0.050	10/31/2017	ND	1.92	95.9	2.00	1.31	
Ethylbenzene*	<0.050	0.050	10/31/2017	ND	1.94	96.9	2.00	1.92	
Total Xylenes*	<0.150	0.150	10/31/2017	ND	6.18	103	6.00	2.13	
Total BTEX	<0.300	0.300	10/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	208	16.0	10/28/2017	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	10/29/2017	ND	188	93.8	200	3.24	
DRO >C10-C28	<10.0	10.0	10/29/2017	ND	200	100	200	5.92	
EXT DRO >C28-C36	<10.0	10.0	10/29/2017	ND					
Surrogate: 1-Chlorooctane	84.2	28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.1	% 34.7-15	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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. Keine

Celey D. Keene, Lab Director/Quality Manager

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	Cliff Brunson		P.O. #:		_		
Address: P.O. Box 805	0x 805		Company:	280			
City: Hobbs	State: NM	zip: 88241	Attn:				
Phone #: 575-397-6388		575-397-0397	Address:				
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Lab I.D.

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

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Page 34 of 34

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NM OIL CONSERVATION

ARTESIA DISTRICT

Page 49 of 53

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			Rele	ease Notifica			101-00	ction			
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Name of Co	mpany M			13831		Contact Ma	tt Buckles				
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E-mail Addr	ess: mattbu	ckles@mec.co	om			Conditions o	f Approval:	allar	had	Attachee	2RP-4446
Date: 10/	16/2017	1122		Phone: 575-748-12	288		UE	UTTUL	na		Chi 4446

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/17/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 302-4446 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in <u>ARTESIA</u> on or before 11/17/2017 If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From:	Matt Buckles <mattbuckles@mec.com></mattbuckles@mec.com>
Sent:	Tuesday, October 17, 2017 4:52 PM
То:	Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; agroves@slo.state.nm.us
Cc:	Lee Livingston; Jerry Sherrell
Subject:	RE: C-141 on the Klondike Release
Attachments:	Klondike Lease.pdf

From: Matt Buckles Sent: Tuesday, October 17, 2017 4:51 PM To: 'Bratcher, Mike, EMNRD'; Crystal.Weaver@state.nm.us; 'agroves@slo.state.nm.us' Cc: Lee Livingston; Jerry Sherrell Subject: C-141 on the Klondike Release

Here is the completed C-141. Let me know if you have any questions or concerns.

Thanks,

Matt Buckles

From: Matt Buckles Sent: Monday, October 16, 2017 3:51 PM To: 'Bratcher, Mike, EMNRD'; <u>Crystal.Weaver@state.nm.us</u>; 'agroves@slo.state.nm.us' Cc: Lee Livingston; Jerry Sherrell Subject: Immediate Notice on the Klondike Release

Good Afternoon,

Mack Energy had a release on the Klondike State Lease in Chaves County of approximately 200 Bbls of produced water. The release was discovered this morning 10/16/2017 at approximately 7:30am. We will be submitting a C-141 shortly.

Thanks,

Matt Buckles Mack Energy Corporation 11344 Lovington Highway Artesia NM 88210 575-748-1288 Office 575-703-1958 Mobile 575-746-5508 Fax Email:<u>mattbuckles@mec.com</u> http://www.mec.com

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

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

District IV 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

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	385188
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)
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CONDITIONS

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