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DELINEATION WORKPLAN

OXY – MLMU SATELLITE #4 (Leak Date: 6/19/17)

> RP # 1RP-4752 API # 30-025-27089

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4752.

The following information includes:

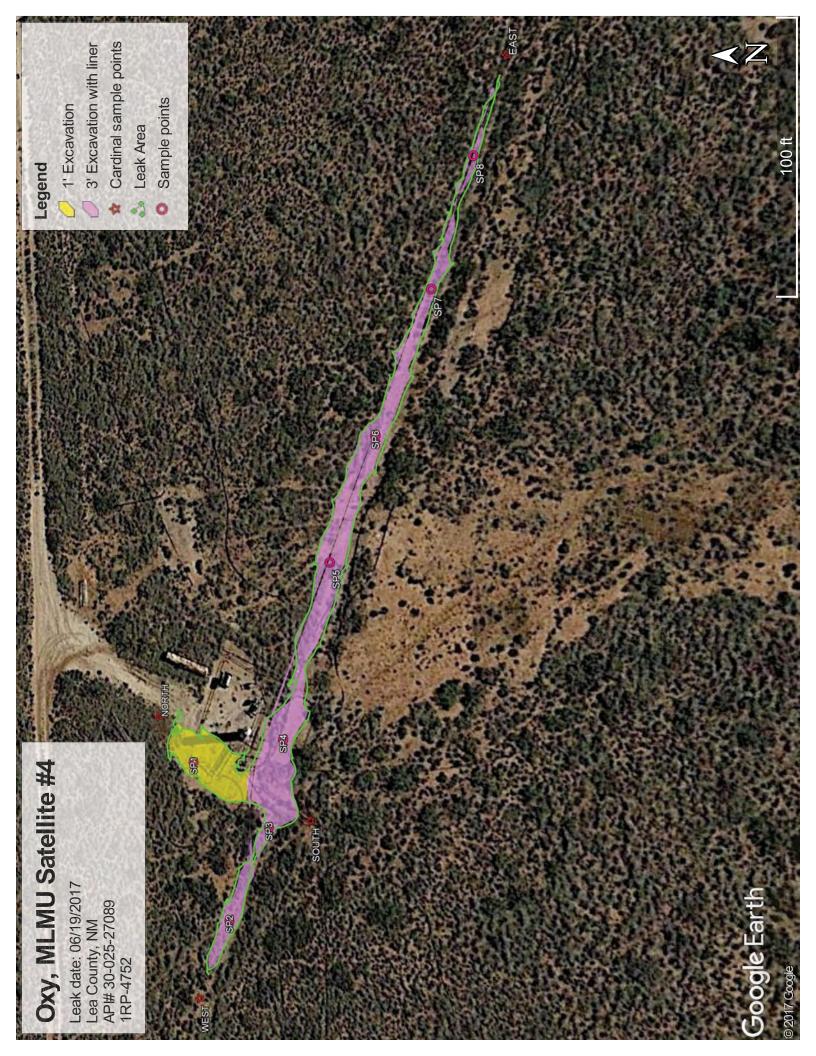
- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or 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:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 (shaded in yellow) will be excavated to a depth of 1 foot. The leak area near SP2 – SP8 (shaded in pink) will excavated to a depth of 3 feet then an impermeable liner will be placed in the excavation.

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.



Oxy, MLMU Satellite #4

Sample points, hand auger

SP1, N 32.23281 W-103.20623

SP2, N 32.23275 W-103.20645

SP3, N 32.23269 W-103.20631

SP4, N 32.23267 W-103.20618

SP5, N 32.23261 W-103.20593

SP6, N 32.23255 W-103.20576

SP7, N 32.23248 W-103.20556

SP8, N 32.23242 W-103.20540

NORTH, N 32.23286 W-103.20617

SOUTH, N 32.23263 W-103.20629

EAST, N 32.23238 W-103.20527

WEST, N 32.23280 W-103.20658

Oxy, MLMU Satellite #4 U/L E, Section 7, T24S, R37E Groundwater: 125'





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): 668827 **Northing (Y):** 3567746 **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.

6/26/17 9:57 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS) O Q64: Q16: SW Q4: NW Sec: 07 Tws: 24S Rng: 37E
State Plane Coordinate System - NAD27 O X: 0 ft Y: 0 ft Zone:
State Plane Coordinate System - NAD83 O x: 0 ft Y: 0 ft Zone:
Degrees/Minutes/Seconds Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
UTM - NAD27 Compared to the control of the control
All Conversion Results are displayed as NAD 1993 LITM Zone 13
All Conversion Results are displayed as NAD 1983 UTM Zone 13 Easting (X): 668827.0 mtrs Northing (Y): 3567746.0 mtrs ~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary MLMU Satellite #4

Analyte Method	2,00					(
	Date	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17	21/6/8
		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene BTEX 8021B	В	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene BTEX 8021B	В	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene BTEX 8021B	В	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes BTEX 8021B	В	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX BTEX 8021B	В	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride SM4500Cl-B	3	16	240	260	160	160	160
GRO TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO TPH 8015M		79.1	95.7	33.4	<10.0	<10.0	<10.0
ЕХТ DRO ТРН 8015М		109	34.6	16.9	<10.0	<10.0	<10.0

		Sample	SP2 @ 1.	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5.	SP2 @ 6'	SP2 @ 11.	SP2 @ 16'
Analyte	Method	Date	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17	8/9/17
			mg/Kg	mg/Kg						
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	<0.300	<0.300
Chloride	SM4500CI-B		96	160	1440	1100	640	64	64	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	<10.0	<10.0
DRO	TPH 8015M		908	102	<10.0	n/a	n/a	n/a	<10.0	<10.0
EXT DRO	TPH 8015M		172	31.3	<10.0	n/a	n/a	n/a	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5.	SP3 @ 6.	SP3 @ 7.	SP3 @ 8'	SP3 @ 9'	SP3 @ 10'	SP3 @ 15	SP3 @ 18'
Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
			mg/Kg	mg/Kg	mg/Kg									
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	u/a	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	u/a	<0.050	<0.050	<0.050
Ethylbenzene BTEX 802	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	e/u	<0.050	<0.050	<0.050
Total Xylenes BTEX 802	BTEX 8021B		0.222	1.58	<0.150	<0.150	<0.150	n/a	n/a	n/a	u/a	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	1.58	<0.300	<0.300	<0.300	n/a	n/a	n/a	u/a	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		288	640	704	848	912	096	1040	1220	968	32	48	32
GRO	TPH 8015M		<50.0	73.1	<10.0	<10.0	<10.0	n/a	n/a	n/a	u/a	<10.0	<10.0	<10.0
DRO	TPH 8015M		5210	066	253	<10.0	17.9	n/a	n/a	n/a	u/a	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		826	181	86.2	<10.0	<10.0	n/a	n/a	n/a	u/a	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4@3	SP4 @ 4'	SP4@5'	SP4 @ 6'	SP4@7	SP4 @ 8'	SP4 @ 9'	SP4 @ 10'	SP4 @ 15'	SP4 @ 18'
Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050	<0.050	<0.050
Ethylbenzene BTEX 802	BTEX 8021B		<0.050	1.79	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a	<0.050	<0.050	<0.050
Total Xylenes BTEX 802	BTEX 8021B		<0.150	2.29	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	4.07	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		304	809	292	1020	832	880	1040	1230	864	48	16	48
GRO	TPH 8015M		0.03>	47.2	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0	<10.0	<10.0
DRO	TPH 8015M		2610	475	230	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		1100	101	80.2	<10.0	<10.0	n/a	n/a	n/a	n/a	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary MLMU Satellite #4

		Sample	SP5 @ 1'	SP5 @ 2'	SP5@3'	SP5 @ 4'	SP5 @ 5'	.9 @ 9dS	SP5 @ 7"	SP5 @ 8'	SP5 @ 13'
Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	u/a	n/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	u/a	n/a	<0.050	<0.050
Ethylbenzene E	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	u/a	n/a	<0.050	<0.050
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	u/a	n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	u/a	n/a	<0.300	<0.300
Chloride	SM4500CI-B		288	720	1680	848	624	999	959	48	32
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	n/a	u/a	n/a	<10.0	<10.0
DRO	TPH 8015M		1130	<10.0	11.4	<10.0	n/a	u/a	u/a	<10.0	<10.0
EXT DRO	TPH 8015M		187	<10.0	<10.0	<10.0	n/a	n/a	n/a	<10.0	<10.0

		Sample	SP6 @ 1'	SP6 @ 2'	SP6@3'	SP6 @ 4'	SP6 @ 5'	SP6 @ 6'	SP6 @ 7"	SP6 @ 8'	SP6 @ 13
Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	050'0>	u/a	n/a	u/a	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	050'0>	u/a	n/a	u/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	090'0>	u/a	n/a	u/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	u/a	n/a	u/a	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	008'0>	u/a	n/a	u/a	<0.300	<0.300
Chloride	SM4500CI-B		32	1200	1170	752	959	640	269	32	32
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	u/a	n/a	u/a	<10.0	<10.0
DRO	TPH 8015M		1200	<10.0	<10.0	<10.0	u/a	n/a	u/a	<10.0	<10.0
EXT DRO	TPH 8015M		267	<10.0	<10.0	<10.0	e/u	n/a	u/a	<10.0	<10.0

Analyte Method Date \$\(\text{Not}\)\triangle \rightarrow \righta			Sample	SP7 @ 1'	SP7 @ 2'	SP7@3	SP7 @ 4'	SP7 @ 5'	SP7 @ 10'
BTEX 8021B	Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	21/01/8
BTEX 8021B				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
BTEX 8021B	Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	<0.050
STEX 8021B <0.050	Toluene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	n/a	<0.050
STEX 8021B <0.150	Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	n/a	<0.050
XX BTEX 8021B <0.300	Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	u/a	n/a	<0.150
SM4500CFB 64 928 576 448 48 TPH 8015M <10.0 <10.0 <10.0 n/a n/a r/a TPH 8015M <10.0 47 <10.0 n/a r/a r/a <th>Total BTEX</th> <td>BTEX 8021B</td> <th></th> <td><0.300</td> <td><0.300</td> <td><0.300</td> <td>u/a</td> <td>n/a</td> <td><0.300</td>	Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	u/a	n/a	<0.300
TPH 8015M <10.0	Chloride	SM4500CI-B		64	876	9/9	448	48	64
TPH 8015M <10.0 47 <10.0 n/a n/a r/a 17PH 8015M <10.0 30.9 <10.0 n/a n/a r/a r/a r/a r/a r/a r/a r/a r/a r/a r	GRO	TPH 8015M		<10.0	<10.0	<10.0	u/a	n/a	<10.0
TPH 8015M <10.0 30.9 <10.0 n/a n/a	DRO	TPH 8015M		<10.0	47	<10.0	u/a	n/a	<10.0
	EXT DRO	TPH 8015M		<10.0	30.9	<10.0	u/a	n/a	<10.0

		Sample	SP8 @ 1'	SP8 @ 2'	SP8@3'	SP8 @ 4'	.s @ 8dS	SP8 @ 10'
Analyte	Method	Date	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17	8/10/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	e/u	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	e/u	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	u/a	e/u	<0.050
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	<0.150	<0.150	n/a	u/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	u/a	<0.300
Chloride	SM4500CI-B		96	876	672	480	959	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	u/a	<10.0
DRO	TPH 8015M		<10.0	14.2	<10.0	n/a	u/a	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	e/u	e/u	<10.0

Laboratory Analytical Results Summary MLMU Satellite #4

		Sample	NORTH @ SURFACE
Analyte	Method	Date	8/10/17
			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
EXT DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	21/01/8
			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		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	8/10/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Foluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Fotal Xylenes	BTEX 8021B		<0.150
rotal BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
ORO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Analyte Method Date British Benzene BTEX 8021B <0.056 Toluene BTEX 8021B <0.056 Ettylbenzene BTEX 8021B <0.056 Total Xylenes BTEX 8021B <0.056 Total Steps BTEX 8021B <0.056 Chloride BTEX 8021B <0.056 Chloride SMA500Cl-B <0.306 GRO TPH 8015M <0.006 BRO TPH 8015M <0.006 EXT DRO TPH 8015M <0.006 EXT DRO TPH 8015M <0.006			Sample	SOUTH @ SURFACE
BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B SM4500CLB TPH 8015M TPH 8015M	Analyte	Method	Date	8/10/17
### 8021B ### 8022B ### 802B ##				mg/Kg
### BTEX 8021B Denrzene BTEX 8021B Xylenes BTEX 8021B BTEX 8021B ide SM4500CLB TPH 8015M TPH 8015M SMO TPH 8015M SMO	Benzene	BTEX 8021B		<0.050
Sylenes BTEX 8021B Sylenes BTEX 8021B BTEX BTEX 8021B ide BM4500CLB TPH 8015M DRO TPH 8015M	Toluene	BTEX 8021B		<0.050
Marcol M	Ethylbenzene			<0.050
ide SM4500C-B TPH 8015M TPH 8015M SM6 500C-B SM4500C-B SM4500C-B SM4500C-B SM50C-B SM50C-B	Total Xylenes			<0.150
ide SM4500CtB TPH 8015M TPH 8015M TPH 8015M	Total BTEX	BTEX 8021B		<0.300
TPH 8015M TPH 8015M DRO TPH 8015M	Chloride	SM4500CI-B		32
TPH 8015M TPH 8015M	GRO	TPH 8015M		<10.0
TPH 8015M	DRO	TPH 8015M		<10.0
	EXT DRO	TPH 8015M		<10.0



August 22, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU SATELLITE #4

Enclosed are the results of analyses for samples received by the laboratory on 08/15/17 11:30.

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



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

 Received:
 08/15/2017
 Sampling Date:
 08/09/2017

 Reported:
 08/22/2017
 Sampling Type:
 Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 1' (H702150-01)

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	08/16/2017	ND	1.80	89.9	2.00	12.7	
Toluene*	< 0.050	0.050	08/16/2017	ND	1.71	85.3	2.00	13.9	
Ethylbenzene*	< 0.050	0.050	08/16/2017	ND	1.78	88.9	2.00	14.8	
Total Xylenes*	<0.150	0.150	08/16/2017	ND	5.35	89.1	6.00	14.1	
Total BTEX	<0.300	0.300	08/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 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	16.0	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	79.1	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	109	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	91.79	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.1 9	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 2' (H702150-02)

BTEX 8021B	EX 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	08/16/2017	ND	1.80	89.9	2.00	12.7	
Toluene*	<0.050	0.050	08/16/2017	ND	1.71	85.3	2.00	13.9	
Ethylbenzene*	<0.050	0.050	08/16/2017	ND	1.78	88.9	2.00	14.8	
Total Xylenes*	<0.150	0.150	08/16/2017	ND	5.35	89.1	6.00	14.1	
Total BTEX	<0.300	0.300	08/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 72-148	}						
Chloride, SM4500CI-B	mg,	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	95.7	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	34.6	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	94.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 347-15	7						

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 3' (H702150-03)

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	08/17/2017	ND	2.06	103	2.00	1.77	
Toluene*	<0.050	0.050	08/17/2017	ND	1.97	98.3	2.00	0.0308	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	0.0464	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	6.11	102	6.00	0.290	
Total BTEX	<0.300	0.300	08/17/2017	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	560	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	33.4	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	16.9	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	79.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.2	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 4' (H702150-04)

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	08/17/2017	ND	2.06	103	2.00	1.77	
Toluene*	<0.050	0.050	08/17/2017	ND	1.97	98.3	2.00	0.0308	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	0.0464	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	6.11	102	6.00	0.290	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	160	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	87.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	90.1	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 9' (H702150-05)

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	08/17/2017	ND	2.06	103	2.00	1.77	
Toluene*	<0.050	0.050	08/17/2017	ND	1.97	98.3	2.00	0.0308	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	0.0464	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	6.11	102	6.00	0.290	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	160	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	78.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP1 @ 14' (H702150-06)

EX 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	08/17/2017	ND	2.06	103	2.00	1.77	
Toluene*	<0.050	0.050	08/17/2017	ND	1.97	98.3	2.00	0.0308	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	0.0464	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	6.11	102	6.00	0.290	
Total BTEX	<0.300	0.300	08/17/2017	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	160	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	77.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.5	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 1' (H702150-07)

BTEX 8021B	mg/	kg	Analyzed By: MS		: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	1.77	
Toluene*	<0.050	0.050	08/17/2017	ND	1.97	98.3	2.00	0.0308	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	2.06	103	2.00	0.0464	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	6.11	102	6.00	0.290	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	96.0	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	806	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	172	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	91.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	102 9	% 34.7-15	7						

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Celley D. Keine



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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 2' (H702150-08)

BTEX 8021B	X 8021B mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	QR-03
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	160	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	102	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	31.3	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	85.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.0	% 34.7-15	7						

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Celley D. Keine



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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 3' (H702150-09)

BTEX 8021B	mg/kg		Analyzed By: MS		: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	1440	16.0	08/16/2017	ND	400	100	400	3.92	
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	08/16/2017	ND	200	99.9	200	0.460	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	205	102	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	72.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.2	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 4' (H702150-10)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 1100 16.0 08/16/2017 ND 400 100 400 3.92

Sample ID: SP2 @ 5' (H702150-11)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 640 16.0 08/16/2017 400 400 3.92 ND 100

Sample ID: SP2 @ 6' (H702150-12)

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 08/16/2017 ND 400 0.00 **QR-03** 16.0 416 104

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 11' (H702150-13)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/16/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	67.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	72.8	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/09/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP2 @ 16' (H702150-14)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	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	80.0	16.0	08/16/2017	ND	416	104	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	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	67.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	72.3	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 1' (H702150-15)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	0.222	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	288	16.0	08/16/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	5210	50.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	978	50.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	90.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	166	% 347-15	7						

Surrogate: 1-Chlorooctadecane 166 % 34.7-157

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP3 @ 2' (H702150-16)

RTFY 8021R

IEX 8021B	тд/кд		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	1.58	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	1.58	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	158 9	% 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	640	16.0	08/16/2017	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	73.1	50.0	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	990	50.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	181	50.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	87.9	% 28.3-16	4						

Surrogate: 1-Chlorooctahee 87.9 % 28.3-104
Surrogate: 1-Chlorooctahecahe 107 % 34.7-157

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S-04



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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 3' (H702150-17)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	704	16.0	08/16/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	253	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	86.2	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	74.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.3	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP3 @ 4' (H702150-18)

RTFY 8021R

e Value QC RPD Qualifier 2.00 0.693 2.00 0.577 2.00 0.545 6.00 1.16
2.00 0.577 2.00 0.545
2.00 0.545
6.00 1.16
e Value QC RPD Qualifier
400 0.00
e Value QC RPD Qualifier
200 4.66
200 5.52
_

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 5' (H702150-19)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	< 0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	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	912	16.0	08/16/2017	ND	416	104	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	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	17.9	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	82.1 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.4 9	% 34.7-15	7						

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400

0.00



Analytical Results For:

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

1040

16.0

Sample ID: SP3 @ 6' (H702150-20)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/16/2017	ND	416	104	400	0.00	
Sample ID: SP3 @ 7' (H7	02150-21)								
Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SP3 @ 8' (H702150-22)

Chloride

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	08/16/2017	ND	416	104	400	0.00	

ND

416

104

08/16/2017

Sample ID: SP3 @ 9' (H702150-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/16/2017	ND	416	104	400	0.00	

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 10' (H702150-24)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	< 0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	% 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	32.0	16.0	08/16/2017	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	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	77.1 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 15' (H702150-25)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	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	48.0	16.0	08/16/2017	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	08/16/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	72.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.8	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP3 @ 18' (H702150-26)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	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	32.0	16.0	08/16/2017	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	70.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.9	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 1' (H702150-27)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	c BS % F	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	5610	50.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	1100	50.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	98.2	% 28.3-16							
Commenter 1 Chlores et al.	170	0/ 247.15	7						

Surrogate: 1-Chlorooctadecane 178 % 34.7-157

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Celeg D. Kreene



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

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 2' (H702150-28)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	1.79	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	2.29	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	4.07	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	158	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/16/2017	ND	416	104	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	47.2	10.0	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	475	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	101	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	89.4	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	96.7	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 96.7 %

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Celley D. Keine



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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 3' (H702150-29)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 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	768	16.0	08/16/2017	ND	416	104	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	230	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	80.2	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	77.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.6	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP4 @ 4' (H702150-30)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 08/17/2017 08/17/2017 08/17/2017 08/17/2017	Method Blank ND ND ND ND	BS 1.87 1.84 1.94	% Recovery 93.3 92.1 97.2	True Value QC 2.00 2.00 2.00	RPD 0.693 0.577 0.545	Qualifier
<0.050 <0.050 <0.150 <0.300	0.050 0.050 0.150	08/17/2017 08/17/2017 08/17/2017	ND ND	1.84 1.94	92.1	2.00	0.577	
<0.050 <0.150 <0.300	0.050 0.150	08/17/2017 08/17/2017	ND	1.94				
<0.150 <0.300	0.150	08/17/2017			97.2	2.00	0.545	
<0.300			ND	E 70				
	0.300	08/17/2017		5.79	96.5	6.00	1.16	
10:		, , 202,	ND					
106	% 72-148							
mg	/kg	Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1020	16.0	08/16/2017	ND	416	104	400	0.00	
mg/kg		Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/17/2017	ND	180	89.8	200	4.66	
<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
<10.0	10.0	08/17/2017	ND					
78.8	% 28.3-16	4						
	0/2 3/7/15	7						
	Result 1020 mg, Result <10.0 <10.0 <78.8	106 % 72-148 mg/kg Result Reporting Limit <10.0	106 % 72-148 mg/kg Analyzed Result Reporting Limit Analyzed Result Reporting Limit Analyzed Analyzed <10.0 10.0 08/17/2017	106 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank Result Reporting Limit Analyzed Method Blank <10.0	106 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS Result Reporting Limit Analyzed Method Blank BS <10.0	106 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	78.8 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit 1020 Analyzed Method Blank BS % Recovery True Value QC 1020 16.0 08/16/2017 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0 10.0 08/17/2017 ND 180 89.8 200	78.8 % 28.3-164 To 106 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Analyzed By: MS True Value QC RPD Result Reporting Limit Analyzed Analyzed Method Blank BS Recovery True Value QC RPD RPD <10.0

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 5' (H702150-31)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 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	832	16.0	08/16/2017	ND	416	104	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	77.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	83.0	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 6' (H702150-32)

Chloride, SM4500CI-B	mg	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/16/2017	ND	432	108	400	3.77	
Sample ID: SP4 @ 7' (H70	02150-33)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/16/2017	ND	432	108	400	3.77	
Sample ID: SP4 @ 8' (H70	02150-34)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/16/2017	ND	432	108	400	3.77	
Sample ID: SP4 @ 9' (H70	02150-35)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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ND

432

108

400

3.77

08/16/2017

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Chloride

864

16.0



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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 10' (H702150-36)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 72-148	}						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/16/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	80.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 15' (H702150-37)

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	08/17/2017	ND	1.87	93.3	2.00	0.693	
Toluene*	<0.050	0.050	08/17/2017	ND	1.84	92.1	2.00	0.577	
Ethylbenzene*	<0.050	0.050	08/17/2017	ND	1.94	97.2	2.00	0.545	
Total Xylenes*	<0.150	0.150	08/17/2017	ND	5.79	96.5	6.00	1.16	
Total BTEX	<0.300	0.300	08/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	16.0	16.0	08/16/2017	ND	432	108	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	78.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.7	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP4 @ 18' (H702150-38)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	48.0	16.0	08/16/2017	ND	432	108	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	73.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.6	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP5 @ 1' (H702150-39)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	288	16.0	08/16/2017	ND	432	108	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	<50.0	50.0	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	1130	50.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	187	50.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	84.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	108	% 347-15	7						

Surrogate: 1-Chlorooctadecane 108 % 34.7-157

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP5 @ 2' (H702150-40)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	720	16.0	08/16/2017	ND	432	108	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	08/17/2017	ND	180	89.8	200	4.66	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	183	91.5	200	5.52	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	75.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.0	% 34.7-15	7						

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P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP5 @ 3' (H702150-41)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 08/18/2017 08/18/2017 08/18/2017 08/18/2017	Method Blank ND ND ND	BS 1.84 1.80 1.93	% Recovery 92.2 90.0 96.5	2.00 2.00	RPD 1.40 0.871	Qualifier
<0.050 <0.050 <0.150	0.050 0.050 0.150	08/18/2017 08/18/2017	ND ND	1.80	90.0	2.00		
<0.050 <0.150	0.050 0.150	08/18/2017	ND				0.871	
<0.150	0.150			1.93	96.5	2.00		
		08/18/2017	ND		5015	2.00	0.401	
<0.300	0.300		ND	5.78	96.3	6.00	0.297	
	0.500	08/18/2017	ND					
102 9	% 72-148							
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1680	16.0	08/16/2017	ND	432	108	400	3.77	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/16/2017	ND	202	101	200	0.659	
11.4	10.0	08/16/2017	ND	197	98.7	200	1.11	
<10.0	10.0	08/16/2017	ND					
93.8	% 28.3-16	4						
98.5	% 34.7-15	7						
	Result 1680 mg/ Result <10.0 11.4 <10.0	102 % 72-148 mg/ky Result Reporting Limit 1680 16.0 mg/ky Result Reporting Limit <10.0 10.0 11.4 10.0 <10.0 10.0 93.8 % 28.3-16	<0.300 0.300 08/18/2017 102 % 72-148 mg/kg Analyzed 1680 16.0 08/16/2017 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	IO2 % 72-148 T0-148 Method Blank Method Blank 1680 16.0 08/16/2017 ND Method Blank Result Reporting Limit Analyzed Method Blank <10.0	<0.300 0.300 08/18/2017 ND 102 % 72-148 mg/ky Analyzed By: AC Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	<0.300 08/18/2017 ND 102 % 72-148 mg/ky Analyzed By: AC Result Reporting Limit Analyzed By: MS % Recovery Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	< 0.300 08/18/2017 ND 102 % 72-148 mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC True Value QC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	< 0.300 08/18/2017 ND 102 % 72-148 mg/kg Analyzed By: AC Result Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Result Reporting Limit Analyzed ND 202 101 200 0.659 11.4 10.0 08/16/2017 ND 197 98.7 200 1.11 11 11 11 11 10.0 08/16/2017 ND ND ND 197 98.7 200 1.11 11 11 11 11 11 11

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP5 @ 4' (H702150-42)

RTFY 8021R

BIEX 8021B	mg/	кд	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	848	16.0	08/16/2017	ND	432	108	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	08/16/2017	ND	202	101	200	0.659	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	197	98.7	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	87.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.3	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP5 @ 5' (H702150-43)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 624 16.0 08/16/2017 ND 432 108 400 3.77

Sample ID: SP5 @ 6' (H702150-44)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery Chloride 656 16.0 08/16/2017 432 400 3.77 ND 108

Sample ID: SP5 @ 7' (H702150-45)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 656 08/16/2017 ND 400 16.0 432 108 3.77

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP5 @ 8' (H702150-46)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	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	48.0	16.0	08/16/2017	ND	432	108	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	08/16/2017	ND	202	101	200	0.659	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	197	98.7	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	79.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.1	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP5 @ 13' (H702150-47)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/16/2017	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2017	ND	202	101	200	0.659	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	197	98.7	200	1.11	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	66.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.0	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP6 @ 1' (H702150-48)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/16/2017	ND	432	108	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	<50.0	50.0	08/16/2017	ND	202	101	200	0.659	
DRO >C10-C28	1200	50.0	08/16/2017	ND	197	98.7	200	1.11	
EXT DRO >C28-C36	267	50.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	80.8	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	111 9	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 111 %

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Celley D. Keine



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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP6 @ 2' (H702150-49)

RTFY 8021R

	Reporting Limit 0.050 0.050 0.050 0.150 0.300	Analyzed 08/18/2017 08/18/2017 08/18/2017 08/18/2017 08/18/2017	Method Blank ND ND ND ND ND ND ND	1.84 1.80 1.93 5.78	% Recovery 92.2 90.0 96.5 96.3	True Value QC 2.00 2.00 2.00 6.00	RPD 1.40 0.871 0.401 0.297	Qualifier
<0.050 <0.050 <0.150 <0.300	0.050 0.050 0.150 0.300	08/18/2017 08/18/2017 08/18/2017 08/18/2017	ND ND ND	1.80 1.93	90.0 96.5	2.00 2.00	0.871 0.401	
<0.050 <0.150 <0.300	0.050 0.150 0.300	08/18/2017 08/18/2017 08/18/2017	ND ND	1.93	96.5	2.00	0.401	
<0.150 <0.300	0.150 0.300	08/18/2017 08/18/2017	ND					
<0.300	0.300	08/18/2017		5.78	96.3	6.00	0.297	
102 5			ND					
	% 72-148							
mg/	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1200	16.0	08/16/2017	ND	432	108	400	3.77	
mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/17/2017	ND	182	90.9	200	0.0599	
<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
<10.0	10.0	08/17/2017	ND					
84.1	% 28.3-16	4						
89.3	% 34.7-15	7						
	Result 1200 mg/ Result <10.0 <10.0 <84.1	mg/kg Result Reporting Limit 1200 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0 <84.1 % 28.3-16.0	Result Reporting Limit Analyzed 1200 16.0 08/16/2017 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/ky Analyzed Method Blank Result Reporting Limit 10.0 Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0 10.0 08/17/2017 ND	mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 1200 16.0 08/16/2017 ND 432 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 1200 16.0 08/16/2017 ND 432 108 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1200 16.0 08/16/2017 ND 432 108 400 mg/kg Fanalyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC < 10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1200 16.0 08/16/2017 ND 432 108 400 3.77 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP6 @ 3' (H702150-50)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	1170	16.0	08/16/2017	ND	432	108	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	97.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	101	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP6 @ 4' (H702150-51)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	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	752	16.0	08/16/2017	ND	432	108	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	84.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.5	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP6 @ 5' (H702150-52)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 656 16.0 08/16/2017 ND 416 104 400 0.00

Sample ID: SP6 @ 6' (H702150-53)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery Chloride 640 16.0 08/16/2017 416 400 0.00 ND 104

Sample ID: SP6 @ 7' (H702150-54)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 592 08/16/2017 ND 400 0.00 16.0 416 104

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP6 @ 8' (H702150-55)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 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	32.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	72.2 9	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	74.5 9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP6 @ 13' (H702150-56)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	32.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	75.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.1	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP7 @ 1' (H702150-57)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	64.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	83.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.1	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP7 @ 2' (H702150-58)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	< 0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	< 0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 72-148	3						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	47.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	30.9	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	73.0	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	76.5	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: OXY - LEA CO NM

Sample ID: SP7 @ 3' (H702150-59)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	< 0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	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	576	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	81.3 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	84.3 9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP7 @ 4' (H702150-60)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 448 16.0 08/16/2017 ND 416 104 400 0.00

Sample ID: SP7 @ 5' (H702150-61)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 48.0 16.0 08/16/2017 416 104 400 0.00 ND

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: OXY - LEA CO NM

Sample ID: SP7 @ 10' (H702150-62)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	< 0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	% 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	64.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	86.2 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP8 @ 1' (H702150-63)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	85.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.2	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP8 @ 2' (H702150-64)

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	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	928	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	14.2	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	76.2	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	80.9	% 34.7-15	7						

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Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil
Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: SP8 @ 3' (H702150-65)

RTFY 8021R

BIEX 8021B	mg/	кg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.84	92.2	2.00	1.40	
Toluene*	<0.050	0.050	08/18/2017	ND	1.80	90.0	2.00	0.871	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.93	96.5	2.00	0.401	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.78	96.3	6.00	0.297	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	672	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	94.1	% 28.3-16-	4						
Surrogate: 1-Chlorooctadecane	98.6	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP8 @ 4' (H702150-66)

Chloride, SM4500CI-B mg/kg Analyzed By: AC

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

Chloride 480 16.0 08/16/2017 ND 416 104 400 0.00

Sample ID: SP8 @ 5' (H702150-67)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 656 16.0 08/16/2017 416 104 400 0.00 ND

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SP8 @ 10' (H702150-68)

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	08/18/2017	ND	1.73	86.5	2.00	0.962	
Toluene*	<0.050	0.050	08/18/2017	ND	1.76	87.9	2.00	1.37	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.89	94.7	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.71	95.1	6.00	1.37	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	32.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	89.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.3	% 34.7-15	7						

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

Sample ID: NORTH @ SURFACE (H702150-69)

RTFY 8021R

B1EX 8021B	mg,	rkg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.73	86.5	2.00	0.962	
Toluene*	<0.050	0.050	08/18/2017	ND	1.76	87.9	2.00	1.37	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.89	94.7	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.71	95.1	6.00	1.37	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	32.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	83.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.7	% 34.7-15	7						

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P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: EAST @ SURFACE (H702150-70)

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	08/18/2017	ND	1.73	86.5	2.00	0.962	
Toluene*	<0.050	0.050	08/18/2017	ND	1.76	87.9	2.00	1.37	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.89	94.7	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.71	95.1	6.00	1.37	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	48.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	86.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.8	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Analyzed By: MC

Project Location: OXY - LEA CO NM

ma/ka

Sample ID: WEST @ SURFACE (H702150-71)

RTFY 8021R

B1EX 8021B	mg	/ kg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2017	ND	1.73	86.5	2.00	0.962	
Toluene*	<0.050	0.050	08/18/2017	ND	1.76	87.9	2.00	1.37	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.89	94.7	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.71	95.1	6.00	1.37	
Total BTEX	<0.300	0.300	08/18/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	80.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	60.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	66.8	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 66.8 % 34.7-157

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

Fax To: (575) 397-0397

Received: 08/15/2017 Sampling Date: 08/10/2017

Reported: 08/22/2017 Sampling Type: Soil

Project Name: MLMU SATELLITE #4 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: OXY - LEA CO NM

Sample ID: SOUTH @ SURFACE (H702150-72)

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	08/18/2017	ND	1.73	86.5	2.00	0.962	
Toluene*	<0.050	0.050	08/18/2017	ND	1.76	87.9	2.00	1.37	
Ethylbenzene*	<0.050	0.050	08/18/2017	ND	1.89	94.7	2.00	1.07	
Total Xylenes*	<0.150	0.150	08/18/2017	ND	5.71	95.1	6.00	1.37	
Total BTEX	<0.300	0.300	08/18/2017	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	32.0	16.0	08/16/2017	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	08/17/2017	ND	182	90.9	200	0.0599	
DRO >C10-C28	<10.0	10.0	08/17/2017	ND	187	93.7	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	08/17/2017	ND					
Surrogate: 1-Chlorooctane	76.9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.8	% 34.7-15	7						

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Notes and Definitions

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S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Cliff Brunson	(S :	(505) 393-2326 FAX (505) 393-2476	6	BILL TO		AN	ANALYSIS REQUEST
Cliff Brunson	ompany Name:	BBC International, Inc.		DILL IO		1	
Sample I.D. State: NM Zip: 88241 Address: City: Zip: Zip	roject Manager:	Cliff Brunson	P.O.				
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Address:	Hobbs		88241	ICHO TOWN	Ç		
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Yes D No	7	SP1 @ 2"	X	8/9/17	10:58 AM 🗸 🗸	4	
Yes O No	N	SP1 @ 3'	0 -	8/9/17	11:11 AM 🗸 🗸	< -	
Yes O No	4	SP1 @ 4'	7	8/9/17	11:30 AM 🗸 🗸	•	
Yes O No	S	SP1 @ 9		8/9/17	11:55 AM 🗸 🗸	<	
Yes O No	6	SP1 @ 14"	20	8/9/17	12:45 PM 🗸 🗸	1	
Yes D No	7	SP2 @ 1'	7	8/9/17	1:11 PM 🗸 🗸	1	
Yes No	8	SP2 @ 2'		8/9/17		1	
Yes □ No	9	SP2 @ 3'	0	J 8/9/17	1:58 PM		
Yes No	10	SP2 @ 4'	The same of the sa	ort, shall be limited to the amount p	aid by the client for the		
Yes □ No	PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and client's exclusive remedy ing those for negligence and any other cause whatsoever sha	tor any coams enemy more than any recommendation withing and recommended waived unless made in writing and recommended without further than to be seen a second to the commended with th	arived by Cardinal within 30 days at of use, or loss of profits incurred b	y client, its subsidiaries.		
Sally Result: Tes Civo	service. In no event shall (Cardinal be liable for incidental or consequence of services hereunder sing out of or related to the performance of services hereunder	by Cardinal, regardless of whether such claim is bar	sed upon any of the above states		O No	dd'l Phone #:
	Relinquished By:	41/0/18 State	_			E NO	100

Sample Condition
Cool Intact
Pes Tes
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. P:0.#:		Company: CAC	
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. P.O. #: BILL TO ANALYSIS REQUEST P.O. #:		(WI	roject Manager: Cliff Brunson
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 BILL TO ANALYSIS REQUEST Company Name: BBC International, Inc.		F.O. #:	O. C.
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 8ILL TO ANALYSIS REQUEST		*	ompany Name: BBC International, Inc.
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 ANALYSIS REQUEST		BILL 10	
ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	ANALYSIS REQUEST		(505) 393-2326 FAX (505) 393-2476
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ARDINAL LABORATORIES			101 East Marland Hobbs, NM 88240
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101 East Mariand, House, History 202 2476					
		BILL TO			ANALYSIS REQUEST
Company Name: BBC International, Inc.	P.O. #:	1			
Project Manager: Cliff Brunson		LIM'I		_	
Address: P.O. Box 805		100	3		_
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5-397-6388 Fax#:	0397	Address:		_	_
	City:				
me: MLMU Satellite #4		te: Zip:		_	
Project I ocation: Lea County, NM	Ph	Phone #:			
1	Fax	Fax #:			
Sampler Name: Jeff Ornelas	MATRIX	PRESERV. SAMPLING	G		
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2 CD2 @ 11'	-	8/9/17	2:45 PM 🗸		
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CD3 @ 1	5	8/10/17	8:40 AM		
000000000000000000000000000000000000000	- 2	8/10/17	8:45 AM	V V	
6 OFO @ 2	200	8/10/17	8:57 AM	< <	
SP3 @ 3	00	8/10/17	9:11 AM	4 4	
_	0	8/10/17	9:15 AM	< <	
SP3 @ 5	61	W 8/10/17	9:22 AM	-	
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including those to registerine and my consequential damages, nt shall Cardinal be liable for incidental or consequential damages.	including without limitation, business interruptions, loss of use, or loss or pressure respons or otherwise, order by Cardinal, repartities of whether such claim is based upon any of the above stated resions or otherwise. Phone Result	ased upon any of the above stated re	Phone Result:		Add'l Phone #:
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	(505) 393-2326 FAX (505) 393-24/6	05) 393-24/6	BILL TO		ANALYSIS REQUEST
ompany Name:	Company Name: BBC International, Inc.	nc.	20100		
roject Manager	Project Manager: Cliff Brunson		7.0. 3		
Address: P.O.			Company:		
T		State: NM Zip: 88241	Attn:		
phone #: 575-397-6388	-	Fax #: 575-397-0397	Address:		_
Project #		Project Owner: Oxy	City:		
1	MI MII Satellite #4		State: Zip:		
roject Name:	The Court NIM		Phone #:		
Project Location:	: Lea County, NM		*		
Sampler Name:	Jeff Ornelas		PRESERV SAMPLING	ING	
FOR USE ONLY	Sample ID	DR (C)OMP. LINERS DWATER VATER	SE:	EX PHEX	
		CON	OTHE DATE	TIME (B	
HIUSISO	CD2 @ 7	- #		9:33 AM 🗸	
2	SP3@1		8/10/17	9:45 AM 🗸	
72	SP3@0	200	8/10/17	9:55 AM 🗸	
13	SP3 @ 40'	200	8/10/17	9:59 AM 🗸 🗸 🗸	
47	CD3 @ 15	0	8/10/17	4	
28	_	6 -	8/10/17	10:27 AM V V V	
31		0 =	0/10/17	10.33 AM	
28	SP4 @ 2'	-	8/10/17	-	
25	SP4 @ 3'			10:51 AM 🗸 🗸 🗸	
30	SP4 @ 4'	4 Contract to the amount paid by the client for the	ad in contract or tort, shall be limited to the amount	paid by the client for the	
PLEASE NOTE: Liability analyses. All claims inclu	LEASE NOTE: Liability and Damages. Cardinal's liability and citer palyses. All claims including those for negligence and any other or the no maned shall Cardinal be fiable for incidental or consequence.	PLEASE NOTE: Liability and Damages. Cardinal's liability and clearts exclusive enough for any cleam areing wronce under control by Cardinal within 30 days after completion of the applicable property of the control of the applicable and any other cause whatenew shall be deemed waveled unless a made in withing and received by Cardinal within 30 days after completion of the applicable property of the control of the applicable property of the applicable prope	- exclusive temedy for any claim sating winning oversure con- - exclusive temedy for any claim sating winning oversure of the sating and sectioned by Cardinal within 30 clays after completion of the as- te whatsoever shall be determed winned white a made in writing and section of use, or loss of profits recurring by clean, its substitutions had claimages, including without limitation, bushness interruptions, loss of use, or loss of profits recurring by con- trail claimages, including without limitation, bushness interruptions, to be only only of the above stilled seasons of otherwise.		
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HA Y	Und of	1	A	REMARKS	
Relinquished By:	Ву	Date: 5.17 Received By:			
		7.47	CO (XXIIII)	1	

Good Intact
Tyes Tyes
No No

Delivered By: (Circle One) 3.18

Sampler - UPS - Bus - Other:

(505) 393-2326 FAX (505) 393-2470	DILL TO	ANALYSIS REQUEST
Company Name: BBC International, Inc.	BILL 10	
Project Manager: Cliff Brunson	P.O. #:	
DO Box 805	Company:	
	The Land State Of	
City: Hobbs State: NM Zip: 00241	Atti: Volcooping	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project # Project Owner: Oxy	City:	
MLMU Satellite #4	State: Zip:	
Lea County NM	Phone #:	
Project Location.	Eav #	

Sampler Name:

Jeff Ornelas

MATRIX

PRESERV

Fax #:

FOR LAB USE ONLY

4702150

SP4 @ 8'

SP4 @ 15' SP4 @ 10'

SP5 @ 1' SP4 @ 18'

SP4 @ 6' SP4 @ 7'

O O O O O O O O (G)RAB OR (C)OMP.

8/10/17

11:11 AM

8/10/17

11:05 AM

8/10/17 8/10/17

8/10/17 8/10/17

> 11:40 AM 11:30 AM 11:20 AM

8/10/17 8/10/17

> 11:52 AM 11:50 AM

11:55 AM

8/10/17 8/10/17

10:59 AM

SP4 @ 5'

Lab I.D.

Sample I.D.

CONTAINERS GROUNDWATER WASTEWATER

SOIL OIL SLUDGE

OTHER ACID/BASE

DATE

TIME

10:55 AM

ICE / COOL OTHER

Sampler - UPS - Bus - Other:	Delivered By: (Circle One) 3./		Relinquished By:	Solow Hole	Relinquished by:	affiliates or successors arising out or or reward or the per-	service. In no event shall Cardinal be liable for incidental or co-	PLEASE NOTE: Liability and Damages. Catchias success analyses. All claims including those for negligence and any oth	40 SP5 @ 2
breeted 3.358	./c Sample Condi	Time: 30 Mulas	Daye: 1517 Received By:	Time: 30 M	1011x	Date: Received By:	risequental carriagns, and only of the parties of whether su	LEASE NOTE: Liability and Damages. Calcinate season and conserved what be deemed waved unless made in writing and received by Cardinat within an originate companies. Insight the control within the deemed waved unless made in writing and received by Cardinate within an originate companies. The control within a c	leads are below semedy for any claim arising whether based in
No JOHD	tact (Initials)	A LAMBON		5	REMARKS:	Fax Result:	ch claim is based upon any of the above stated reasons or otherwise. Phone Resu	rising and received by Cardinal witten 30 days size uninversely upsions, loss of use, or loss of profes incurred by client, its subsiduals.	by for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the ac-
						It: Yes No Add'l Fax #:	☐ Yes ☐ No	taries.	or the
						ax#:	hone #:		

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

Page 64 of 68

	(505) 393-2326 FAX (505) 393-2476	393-2476	011 110			ANALYSIS REQUEST
Company Name:	BBC International, Inc.		DILL 10	-	-	
Project Manager:	Cliff Brunson		F.O. #:			
Address: P.O.	30x 805		Company:	?		
city: Hobbs	Stat	State: NM Zip: 88241	Attn: Wardy Drit	C		
Phone #: 575-397-6388		#: 575-397-0397	Address:			
Project #:		Project Owner: Oxy	City:			
ame:	MLMU Satellite #4		State: Zip:			
Project I ocation	Lea County, NM		Phone #:			
Floject Location	- 1		1			
Sampler Name.	Con Circums	MATRIX	PRESERVI SAMPLING	ING	7	
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		BTEX TPH EX	
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34	OF 0 61		/ 8/10/17	12:20 PM 🗸		
C.+	SDE @ S	6	/ 8/10/17			
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75	OPS @ O	00	8/10/17	1:11 PM 🗸	4	
ah,	OP5 @ 43'	0	8/10/17	1:20 PM	4 4	
- 4	SPS @ 13	6-	✓ 8/10/17	1:22 PM 🗸	~ ~	
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3	SDE 3	6-	/ //01/8	A M.1 C7.1	ŀ	
PLEASE NOTE: Liability and Damages, Cardinal's analyses, All claims including those for negligence	and Damages. Cardinal's liability and client's excling those for negligance and any other cause wi	ve remedy for any claim ansing poever shall be deemed waived professor webook firstaff.	whether based in contract or toxt, shall be limited to the amoun unless made in writing and received by Cardinal within 30 days on business interruptions, loss of use, or loss of profits incurred on business interruptions, loss of use, or loss of profits incurred on business interruptions.	to the amount paid by the comin we may within 30 days after completion of the application for the application of the applicatio	cable	
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Sampler - UPS	- Bus - Other	Corrected 3.350 H NO 11 NO	ON ICAN			

	200) 000		BIII	70		DIADE LOS
Company Name: BBC International, Inc.	ational, Inc.		-			
Project Manager: Cliff Brunson	on		F.O. #:		_	
Address: P.O. Box 805			Company:	Marie		
city: Hobbs	State: NM Z	Zip: 88241	Attn: Wood	CHENCE		
Phone #: 575-397-6388	Fax #: 575-3	575-397-0397	Address:			
	Project Owner: Oxy	Оху	City:			
Project #:			State: Zip:	Ď.		
Project Name: MLMU Satellite #4	1					
Project Location: Lea County, NM	, NM		Phone #:			
- 1	as		Fax #:	CAMBI ING	_	
1		MATRIX	PRESERV.	SAMPLING	7	
Lab I.D. Sam	Sample I.D.	B OR (C)OMP. ITAINERS INDWATER TEWATER	R: /BASE: COOL		CI BTEX TPHEX	
HADSICOLA		# CO GRO WAS SOIL	ICE OTH	DATE TIME		
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CG SP7 @ 3"		6 - 7	(× × ×	
CD7		6 - /		8/10/17 2:10 PM	1	
DT / (W) 4 DT / (W) 4 PLEASE NOTE: Liability and Damages. Cardinals's liability and client's exclusive remark for any claim arising whether based in contract or ton, shall be limited to the emount paid by the cardinal within 30 days after completion of the applicable please. The processor of the applicable please for a processor or and for any other cardinal within 30 days after cardinal within 30 days after completion of the applicable please. The processor of the applicable please for a processor or and other profess incurred by client, its substitution.	liability and client's exclusive remedy for a and any other cause whatsoever shall be d	ny claim ansing whether based in contract or tort, shall be limit deemed waived unless made in writing and received by Cardin	obact or tox, shall be limited to op and received by Cardinal with	ed to the amount paid by the clean to time as with the amount paid by the clean to time a services incurred by clean, its subsidiaries	the applicable tartes.	
analyses. All claims including those for registerior and service. In no event shall Cardinal be subset for incident affiliates or successors arising out of or related to the o	dental or consequental damages, including without limitation, business interruptions, based use, or reso or pure secure or consequental damages, including without limitation, business interruptions, based upon any of the above stated reasons or otherwise. The performance of services hereunder by Cadrinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. Phone Resu	without limitation, business interrupt ardinal, regardless of whether such o	ions, loss of use, or loss or pro- claim is based upon any of the	above stated reasons or otherwise Phone Result:	esult: Yes No	
Relinquished By:	Time: 4/10/17	Keceived by		REMARKS:	□ Yes	ACCUTTAX **
Relinquished By:	Date:	Received By:	n Mala	&		
Delivered By: (Circle One)	0) 00/00	Sample Condition	act (Initials)	als)		

Cool Intact

Pres Pres
No No No

Sampler - UPS - Bus - Other:

(505) 393-2326 FAX (505) 393-2476		ANALYSIS REQUEST
DDC International Inc	BILL TO	
Company rame. DDC Illiamonari	PO #:	
Project Manager: Cliff Brunson		
D O Dov 805	Company:	
Address: F.O. Don Coo		
State: NM Zip: 88241	Attn: NOOK OUT IN	
- E7E 307 0307	Address:	
E75 007 6388 8 8853 70537	Tuest and a	

100	000			BII	BILLTO		ŀ	7	WINDE LOID THE STATE		1
Company Name: E	BBC International, Inc.			12		1	1				
22	Cliff Brunson		1	P.O. #:	2				_		
Address: P.O. Box 805				Company:	X V	**			_	_	
City: Hobbs	State: N	1 Zip: 88241		Attn: ILCK	This are	5				_	
Phone #: 575-397-6388	Fax #:	575-397-0397		Address:							
Project #	Project Owner: Oxy	ner: Oxy		City:			_		_		
MI MI Satellite #4			10	State:	Zip:		_				
roject Name: WILL	NIC CONTRACTOR			Phone #:			_				
Project Location:	Lea County, NM			Home m.			_				
	Jeff Ornelas		L	Fax #:	CAMPI INC		_				
FOR LAB USE ONLY		R	MAINIA				/	XT			
Lab I.D.	Sample I.D.	G)RAB OR (C)(CONTAINERS	WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	RTC	TATE			
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015	SP1@5	0	,	,	8/10/17	2:22 pm	<u> </u>	1			-
128	SP7 @ 10'	0		1		2-25 pm	\	1			
S 6%	SP8 @ 1'	0	5	1		2-29 nm	1	1			
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66	D8 @ 5	2	1	_	8/10/17	2:45 pm	1		+		
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8 80	SP8 @ 10"		1		_	2:59 pm	_	\ \			
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3	EAST @ SURFACE	6		1	Or IOI II	d. Ord print	1	-			

Cool Intact

Tyes Tyes

No No Sample Condition

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

41/01/3 per

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

Received By:

Relinquished By

	20 #	
	Dine io	ional, Inc.
ANALYSIS REQUEST	BILLETO	nd, Hobbs, NM 88240 FAX (505) 393-2476
e 68 c		BORATORIES

BBC International, Inc. ### Cliff Brunson Cliff Brunson
Cliff Brunson
Company; Company; State: NM Zip: 88241 Attn:
State: NM Zip: 88241 Attn: WOOLUNTILW
397-6388 Fax #: 575-397-0397 Address: Project Owner: Oxy City: MLMU Satellite #4 State: Zip: Phone #: Pax #: Fax #:
MLMU Satellite #4 Project Owner: Oxy State: Zip: Phone #: Fax #:
MLMU Satellite #4 "It Lea County, NM Phone #: Fax #:
n: Lea County, NM Phone #:
loff Ornelac
MATRIX PRESERV. SAMPLING
CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME
7/ WEST @ SURFACE CI V 8/10/17 3:09 PM V V
E O I V
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the applicable. PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the applicable of the applicabl
Yes
Date: Time: Sample Condition CHECKED BY: Cool Inflact Cool No

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

Name of Company

Surface Owner

Address Facility Name

State of New Mexico Energy Minerals and Natural Resources

Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Release	e Notification	and Corrective Action	1		
		OPERATOR		Report [Final Report
Company OXY USA WTP LP		Contact CASEY L SUMMERS			
PO BOX 4294; HOUSTON, TX 772	210	Telephone No. 575-513-8289			
ame MLMU SATALITTE #4		Facility Type BATTERY			
wner Fee	Mineral Owner	BLM	API No.	30-025-270)89

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	7	24S	37E		,			LEA

Latitude_ 32.23315 _ **Longitude**_ -103.20601 _ NAD83

NATURE OF RELEASE

Type of Release OIL & PRODUCED WATER	Volume of Release 15 bbls OIL & 50 bbls PW	Volume Recovered 1 bbls
Source of Release 6 inch fiberglass production trunkline at the header		Date and Hour of Discovery 6-19-2017
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Required	If YES, To Whom? OLIVIA YU-NMOCD	
By Whom? WADE DITTRICH	Date and Hour 6-20-2017 @ 3:43	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Water	rcourse.
If a Watercourse was Impacted, Describe Fully.*	RECEIVED By Olivia Yu at 1:5	8 pm, Jul 10, 2017
Describe Cause of Problem and Remedial Action Taken.*		
Leak was caused by a 6 inch fiberglass production trunkline at the header	The line has been repaired and put bac	ck into service.
Describe Area Affected and Cleanup Action Taken.*		
The affected area of the spill is 180 by 8 ft (measurements are subject to with a remediation plan approved by the NMOCD.	change with future GPS track). Remedia	ation will be completed in accordance
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	notifications and perform corrective actions to the NMOCD marked as "Final Report" do to contamination that pose a threat to group the contamination that pose a threat	ons for releases which may endanger bes not relieve the operator of liability bund water, surface water, human health
	OIL CONSERV.	ATION DIVISION
Signature: V Printed Name: CASEY L SUMMERS	Approved by Environmental Specialist	
Title: ENVIRONMENTAL ADVISOR	Approval Date: 7/10/2017 E	Expiration Date:
E-mail Address: casey_summers@oxy.com	Conditions of Approval:	_/
Date: 775-513-8289	see attached directive	Attached 🔼
* Attach Additional Sheets If Necessary	4DD 4752	

fOY1719150731

nOY1719150884

pOY1719151188

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _7/10/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4752__ 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 _1_ office in __Hobbs____ on or before _8/10/2017_. 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