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DELINEATION WORKPLAN

COG – WEST BRUSHY 8 LINE LEAK (Leak Date: 7/27/17)

RP # 2RP-4330 API # 30-015-31675

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4330.

The following information includes:

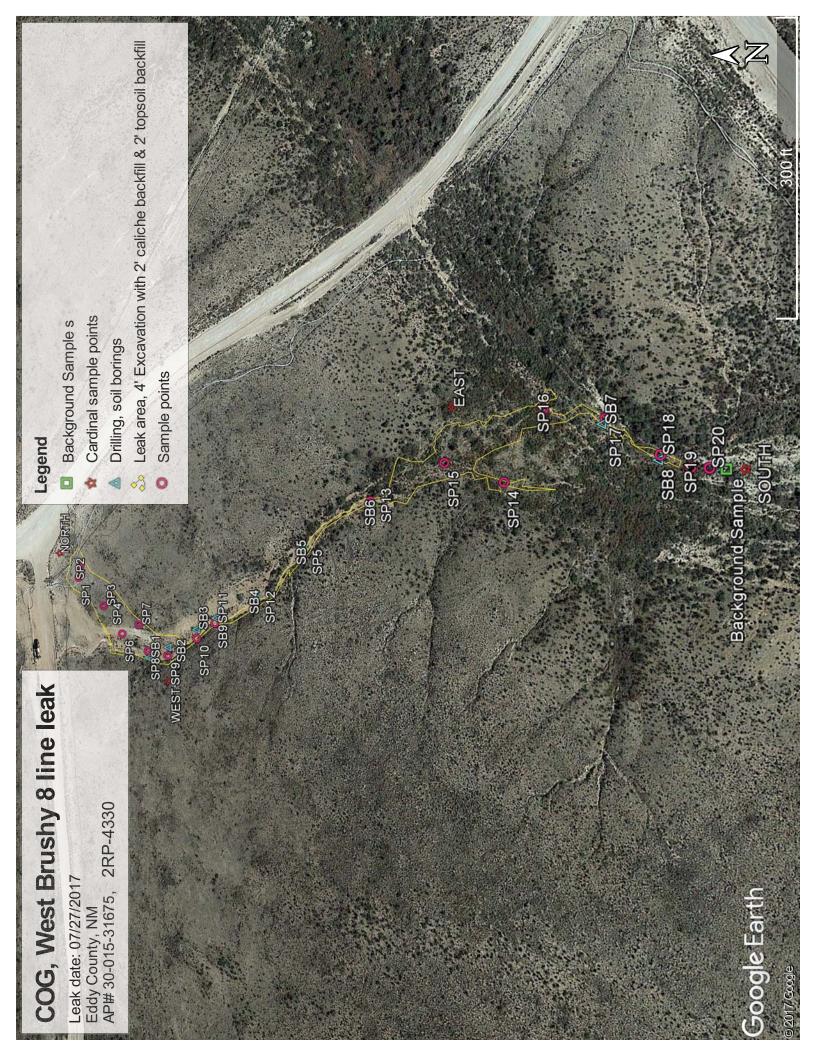
- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or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

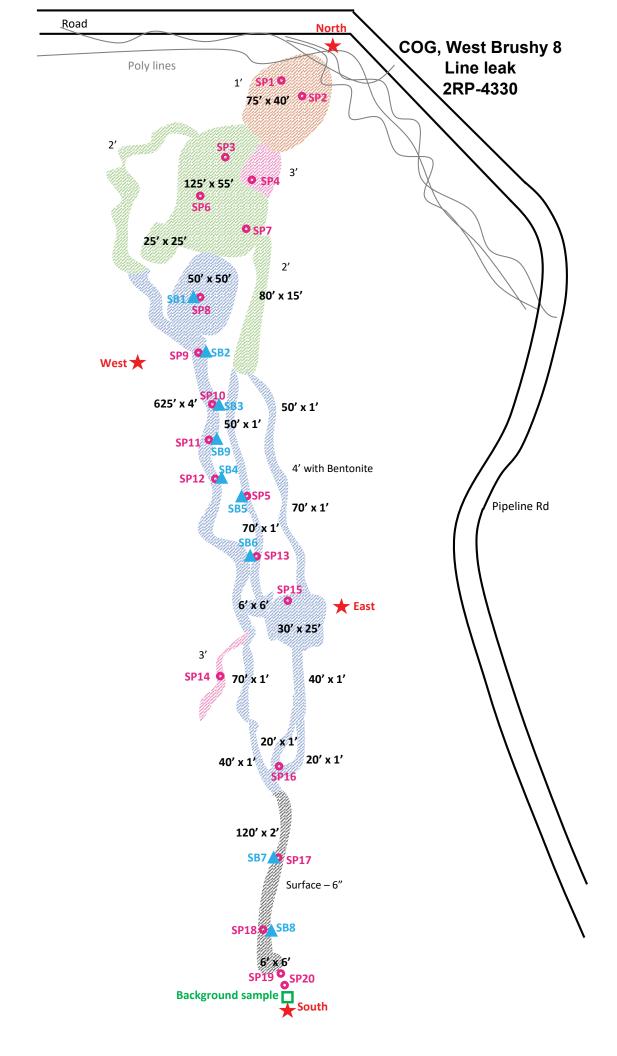
Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 and SP2 (orange shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3, SP6, and SP7 (green shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 and SP14 (pink shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP8, SB1, SP9, SB2, SP10, SB3, SP11, SB9, SP12, SB4 SP5, SB5 SP13, SB6, SP15, and SP16 (blue shade on diagram) will be excavated to a depth of 4 feet and then bentonite clay will be installed in the excavation and backfilled with caliche and then a cap of top soil. The leak area near SP17, SB7, SP18 and SB8 will be surface scraped.

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.

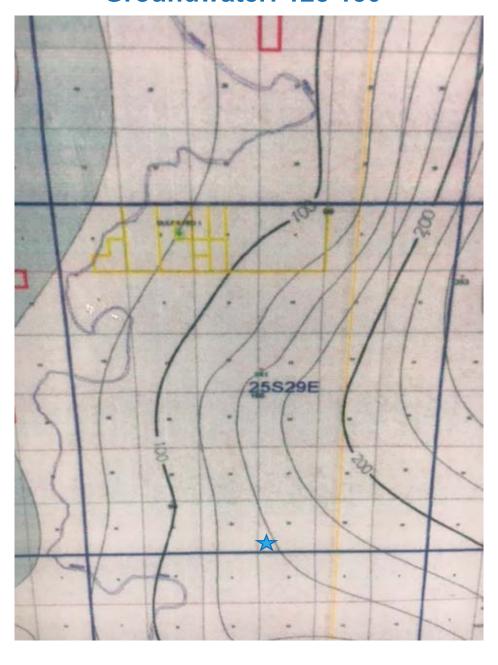




COG, West Brushy 8 Line leak

Sample points, hand auger	DRILLING, SOIL BORINGS
SP1, N 32.08445 W-103.98019	
SP2, N 32.08444 W-103.98013	
SP3, N 32.08428 W-103.98033	
SP4, N 32.08424 W-103.98028	
SP5, N 32.08315 W-103.98006	SB5, N 32.08316 W-103.98002
SP6, N 32.08416 W-103.98046	
SP7, N 32.08406 W-103.98041	
SP8, N 32.08400 W-103.98054	SB1, N 32.08400 W-103.98057
SP9, N 32.08388 W-103.98055	SB2, N 32.08389 W-103.98051
SP10, N 32.08371 W-103.98045	SB3, N 32.08372 W-103.98041
SP11, N 32.08361 W-103.98038	SB9, N 32.08361 W-103.98035
SP12, N 32.08339 W-103.98027	SB4, N 32.08340 W-103.98025
SP13, N 32.08285 W-103.97982	SB6, N 32.08283 W-103.97985
SP14, N 32.08227 W-103.97975	
SP15, N 32.08251 W-103.97967	
SP16, N 32.08212 W-103.97948	
SP17, N 32.08191 W-103.97953	SB7, N 32.08192 W-103.97955
SP18, N 32.08172 W-103.97967	SB8, N 32.08173 -103.97969
SP19, N 32.08163 W-103.97972	
SP20, N 32.08157 W-103.97972	
NORTH, N 32.08458 W-103.98006	
SOUTH, N 32.08147 W-103.97973	
EAST, N 32.08248 W-103.97944	
WEST, N 32.08387 W-103.98067	
BACKGROUND SAMPLE, N 32.08152 W-103.979	9723

COG, West Brushy 8 Line leak U/L M, Section 34, T25S, R29E Groundwater: 125'150'





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): 596400 **Northing (Y):** 3549844 **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.

7/28/17 10:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

	Public Land Survey System (PLSS) O Q64: Q16: SW Q4: SW Sec: 34 Tws: 25S Rng: 29E
	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 O Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
	UTM - NAD27 C Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:
	SUBMIT
	All Conversion Results are displayed as NAD 1983 UTM Zone 13
1	Easting (X): 596400.0 mtrs Northing (Y): 3549844.0 mtrs
	~~ Please keep screen open to copy UTM values for Reports. ~~

		Sample	Background	Background	Background	Background	Background	Background	Background	Background @
		Sample	@ Surface	(8)	@ 2 .	@ 3,	@ 4.	(G)	@ 10.	15'
Analyte	Method	Date	7/29/17	7/29/17	7/29/17	7/29/17	7/29/17	7/29/17	71/29/17	7/29/17
			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	<0.050	050.0>	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	050.0>	<0.050
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	050.0>	<0.050
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	008.0>	<0.300
Chloride	SM4500CI-B		32	16	32	32	144	144	91	96
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	13.2	<10.0	<10.0	<10.0

		Sample	SP1 @ 1.	SP1@2'	SP1 @ 3.
Analyte	Method	Date	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	u/a	n/a
Toluene	BTEX 8021B		<0.050	u/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	u/a	n/a
Total Xylenes	BTEX 8021B		<0.150	u/a	n/a
Total BTEX	BTEX 8021B		<0.300	u/a	n/a
Chloride	SM4500CI-B		2120	96	96
GRO	TPH 8015M		<10.0	u/a	n/a
DRO	TPH 8015M		11.9	u/a	n/a
EXT DRO	TPH 8015M		<10.0	u/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	21/2/8	8/2/17	21/2/8
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2400	08	08

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 9'
Analyte	Method	Date	21/2/8	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	u/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	u/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		050.0>	u/a	u/a	n/a	n/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	u/a	u/a	n/a	n/a
Total BTEX	BTEX 8021B		008'0>	u/a	u/a	n/a	n/a
Chloride	SM4500CI-B		4400	0807	464	128	96
GRO	TPH 8015M		<10.0	u/a	u/a	n/a	n/a
DRO	TPH 8015M		<10.0	u/a	u/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	u/a	u/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 9'
Analyte	Method	Date	8/2/17	8/2/17	8/2/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		3640	2680	1140	48	48

		Sample	SP5@2'	SP5 @ 4'	SP5 @ 7'	SP5 @ 10'	SP5@2' SP5@4' SP5@7' SP5@10' SP5@13' SP5@16' SP5@18'	SP5 @ 16'	SP5 @ 18'
Analyte	Method	Date	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		09//	0899	4480	0009	3440	5120	10700

### Method Date			Sample	SP6 @ 1'	SP6@2'	SP6 @ 3'	SP6 @ 4'	SP6 @ 9'
BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B TPH 8015M TPH 8015M	nalyte	Method	Date	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B SM4500C1-B TPH 8015M				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B SM4500CI-B TPH 8015M		TEX 8021B		<0.050	n/a	n/a	n/a	n/a
BTEX 8021B BTEX 8021B BTEX 8021B SM4500C1-B TPH 8015M		TEX 8021B		<0.050	n/a	n/a	n/a	n/a
Xylenes BTEX 8021B BTEX BTEX 8021B ide SM4500Cl-B TPH 8015M TPH 8015M	benzene B	TEX 8021B		<0.050	n/a	n/a	n/a	n/a
### BTEX 8021B ###################################	Xylenes B	TEX 8021B		<0.150	n/a	n/a	n/a	n/a
ide SM4500CI-B TPH 8015M TPH 8015M		TEX 8021B		<0.300	n/a	n/a	n/a	n/a
TPH 8015M TPH 8015M		M4500CI-B		2880	2760	672	48	32
TPH 8015M	Ė	PH 8015M		<10.0	n/a	n/a	n/a	n/a
	Ė	PH 8015M		<10.0	n/a	n/a	n/a	n/a
		TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	e SP7 @ 1'	SP7 @ 2'	SP7 @ 3°	SP7 @ 4'	.6 @ 2dS
Analyte	Method	Date	8/4/17	8/4/17	21/1/8	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		6160	3640	864	48	32

		Sample	SP8 @ 1' SP8 @ 3'	SP8@3'	SP8 @ 6'	SP8 @ 9'	SP8@9' SP8@12' SP8@15' SP8@18'	SP8 @ 15'	SP8 @ 18'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		11900	12900	10700	12800	11500	10700	11500

			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		11900	12900	10700	12800	11500	10700	11500
_									
		Sample	SP9 @ 1'	SP9 @ 4'	.8 @ 6dS	SP9 @ 12'	SP9 @ 15'	SP9 @ 17'	SP9 @ 18'
Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		13900	17600	0998	1330	704	720	752
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Analyte Method Date 84417 <			Sample	SP10@1	SP10 @ 4' SP10 @ 8'	SP10@8	SP10 @ 12' SP10 @ 15'	SP10 @ 15	SP10@18'
mg/Kg mg/Kg mg/Kg mg/Kg n 9600 8930 10100 10400 1	Analyte	Method	Date	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17	8/4/17
9600 8930 10100 10400 1				mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	Chloride	SM4500CI-B		5440	0096	8930	10100	10400	11300

		Sample	SP11@1	SP11 @ 4'	SP11 @ 8'	SP11 @ 12.	Sample SP11@1' SP11@4' SP11@8' SP11@12' SP11@14' SP11@15' SP11@16' SP11@17' SP11@18'	SP11 @ 15'	SP11 @ 16'	SP11 @ 17'	SP11 @ 18'
Analyte	Method	Date	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		0096	14200	0009	10300	260	528	528	416	64
		Sample	SP12 @ 1'	SP12 @ 3'	SP12 @ 5'	SP12 @ 9'	Sample SP12@1' SP12@3' SP12@5' SP12@9' SP12@12' SP12@15' SP12@16'	SP12 @ 15'	SP12 @ 18'		
Analyte	Method	Date	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17		

mg/Kg **5860**

Chloride

		Sample	SP13@1'	SP13 @ 3'	SP13 @ 6'	SP13 @ 9'	SP13 @ 12'	SP13 @ 12' SP13 @ 15'	SP13 @ 18'
Analyte	Method	Date	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17	8/7/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	u/a	u/a
Toluene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	u/a	u/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	u/a	n/a	u/a	u/a	u/a
Total Xylenes	BTEX 8021B		<0.150	n/a	u/a	n/a	u/a	u/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	u/a	n/a	u/a	u/a	u/a
Chloride	SM4500CI-B		11900	10700	4200	8800	3840	2080	2680
GRO	TPH 8015M		<10.0	n/a	u/a	n/a	u/a	u/a	u/a
DRO	TPH 8015M		<10.0	n/a	u/a	n/a	u/a	u/a	u/a
EXT DRO	TPH 8015M		<10.0	n/a	u/a	n/a	u/a	u/a	u/a

		Sample		SP14@1' SP14@3'	SP14@4'	SP14 @ 9'	SP14 @ 9' SP14 @ 14'
Analyte	Method	Date	8/7/17	21/2/8	71/1/8	21/1/8	21/1/8
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	u/a	u/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	u/a	u/a	u/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	u/a	u/a	u/a	n/a
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	u/a	u/a	u/a	n/a
Total BTEX	BTEX 8021B		<0.300	u/a	u/a	u/a	n/a
Chloride	SM4500CI-B		10700	1330	64	08	08
GRO	TPH 8015M		<10.0	u/a	u/a	u/a	u/a
DRO	TPH 8015M		<10.0	u/a	u/a	u/a	u/a
EXT DRO	TPH 8015M		<10.0	u/a	u/a	u/a	u/a

		Sample	SP15@1'	SP15@3'	SP15@5'	SP15 @ 9'	SP15 @ 12'	SP15@15'	SP15 @ 16'	SP15 @ 17'	SP15 @ 18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	21/8/8	8/8/17	8/8/17	8/8/17	71/8/8	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		0096	8800	8800	08230	6530	096	1300	464	160

		Sample	SP16 @ 1'	SP16@3	SP16 @ 5'	SP16@9'	SP16 @ 12'	SP16@14'	SP16 @ 12' SP16 @ 14' SP16 @ 15'	SP16 @ 18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	u/a	u/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	u/a	u/a	n/a
Ethylbenzene BTEX 8021B	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	u/a	u/a	n/a
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	u/a	u/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	u/a	u/a	n/a
Chloride	SM4500CI-B		9330	10800	10500	8130	809	1220	64	48
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP17 @ 1'	SP17 @ 2'	SP17 @ 3'	SP17 @ 5'	SP17 @ 7'	SP17 @ 8'	SP17 @ 13'	SP17 @ 18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg						
Chloride	SM4500CI-B		96	112	128	128	160	32	16	<16.0
		Sample	SP18 @ 1'	SP18 @ 2'	SP18 @ 3'	SP18 @ 5'	SP18 @ 7'	SP18 @ 8'	SP18 @ 13'	SP18 @ 18'
Analyte	Method	Date	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17	8/8/17
			mg/Kg	mg/Kg						
Benzene E	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Foluene E	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene BTEX 8021B	3TEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Fotal Xylenes BTEX 8021B	3TEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX E	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		112	96	112	160	128	32	16	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
EXT DRO T	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP19@ SURFACE	SP19 @ 5'	SP19@10
Analyte	Method	Date	21/8/8	8/8/17	21/8/8
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		050.0>	n/a	u/a
Toluene	BTEX 8021B		050.0>	n/a	u/a
Ethylbenzene	BTEX 8021B		050.0>	n/a	u/a
Total Xylenes BTEX 8021B	BTEX 8021B		<0.150	n/a	u/a
Total BTEX	BTEX 8021B		008.0>	n/a	u/a
Chloride	SM4500CI-B		32	<16.0	<16.0
GRO	TPH 8015M		<10.0	n/a	u/a
DRO	TPH 8015M		<10.0	n/a	u/a
EXT DRO	TPH 8015M		<10.0	n/a	u/a

		Sample	SP20@ SURFACE	SP20 @ 5'	SP20 @ 5' SP20 @ 10'
Analyte	Method	Date	8/8/17	8/8/17	21/8/8
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0	<16.0

08		SM4500CI-B	Chloride
mg/Kg			
21/8/8	Date	Method	Analyte
NORTH @	Sample		

		Sample	EAST @ SURFACE
Analyte	Method	Date	8/8/17
			mg/Kg
Chloride	SM4500CI-B		64

Sample NEST @ SURFACE BOAte Date

Analyte

			בלי בלי
Chloride	SM4500CI-B		48
		Sample	SOUTH @
Analyte	Method	Date	21/8/8
			mg/Kg
Chloride	SM4500CI-B		64

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	8/8/17
			mg/Kg
loride	SM4500CI-B		64

		Sample	Sample SB1 @ 20' SB1 @ 22'	SB1 @ 22'	SB1 @ 25'	SB1@30'	SB1 @ 35'	SB1 @ 40'
Analyte	Method	Date	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
qe	SM4500CI-B		1600	704	192	144	192	112

		Sample	SB2 @ 20' SB2 @ 22'		SB2 @ 25'	SB2 @ 30'	SB2 @ 35'	SB2 @ 40'	SB2 @ 45'	SB2 @ 50' SB2 @ 55'	SB2 @ 55'	SB2 @ 60'
Analyte	Method	Date	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17	8/21/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		5730	4660	1170	448	112	096	528	80	112	96

SB2 @ 65' 8/21/17 mg/Kg 192

Analyte Method Date 82217 82217 mg/kg mg/kg mg/kg mg/kg mg/kg	Sample SB	SB3 @ 20' SE	B3 @ 22.	SB3 @ 22' SB3 @ 25'	SB3 @ 30.	SB3 @ 35.	SB3 @ 40'
mg/Kg r	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17
Chlorida SMA500CLB 704 480 32	u	ng/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
	M4500Cl-B	704	480	32	32	32	48

		Sample	SB4 @ 20'	SB4 @ 22'	Sample SB4 @ 20' SB4 @ 22' SB4 @ 25' SB4 @ 30' SB4 @ 35'	SB4 @ 30'	SB4 @ 35'
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		1480	64	32	64	32

		Sample	SB5 @ 20'	SB5 @ 22'	SB5 @ 25'	Sample SB5 @ 20' SB5 @ 22' SB5 @ 25' SB5 @ 30' SB5 @ 35' SB5 @ 40'	SB5 @ 35'	SB5 @ 40'	SB5 @ 45' SB5 @ 50'	SB5 @ 50.
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		5520	7860	6260	240	64	128	64	48

		Sample	SB6 @ 20.	SB6 @ 22'	SB6 @ 22' SB6 @ 25' SB6 @ 30'		SB6 @ 35' SB6 @ 40'	SB6 @ 40'	SB6 @ 45'	SB6 @ 50'	SB6 @ 55'
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17	8/22/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		64	176	144	96	160	16	96	32	48

SB7 @ 35' SB7 @ 40' SB7 @ 45' SB7 @ 50'

Sample SB7 @ 20' SB7 @ 25' SB7 @ 30'

				1	1	1		1	1
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/23/17	8/23/17	8/23/17	8/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		80	32	16	64	32	32	48
		Sample	Sample SB8 @ 20' SB8 @ 25'	SB8 @ 25'	SB8 @ 30.	SB8 @ 35'	SB8 @ 30' SB8 @ 35' SB8 @ 40'	SB8 @ 45'	SB8 @ 50.
Analyte	Method	Date	8/22/17	8/22/17	8/22/17	8/23/17	8/23/17	8/23/17	8/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		48	32	16	64	64	32	32
2010	CONTROL		2	42	2	2	5		4

		Sample	Sample SB9 @ 20' SB9 @ 23' SB9 @ 25'	SB9 @ 23'	SB9 @ 25'	SB9 @ 30' SB9 @ 35'	SB9 @ 35.	SB9 @ 40.
Analyte	Method	Date	8/23/17	8/23/17	8/23/17	8/23/17	8/23/17	8/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		4240	96	128	96	128	08



August 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 07/31/17 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: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ SURFACE (H701986-01)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	07/31/2017	ND	416	104	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	76.8 9	% 28.3-16							
Surrogate: 1-Chlorooctadecane	77 0	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 34.7-157

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreene



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 1 (H701986-02)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	< 0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	< 0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	84.1 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.2 9	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane /9.2 % 34./-15/

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

Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 2 (H701986-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	88.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.2	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 34.7-157

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

Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 3 (H701986-04)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	< 0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	< 0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 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	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	83.1 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.9 9	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 4 (H701986-05)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	< 0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	< 0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	144	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	13.2	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	88.6	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.8	% 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: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 5 (H701986-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	< 0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	< 0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	83.6 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.19	% 34.7-15	7						

Surrogate: 1-Chlorooctadecane 81.1 % 34.7-157

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 10 (H701986-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	<0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	<0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	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	16.0	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	86.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.0	% 347-15	7						

Surrogate: 1-Chlorooctadecane 87.0 % 34.7-157

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/31/2017 Sampling Date: 07/29/2017

Reported: 08/01/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: BACKGROUND @ 15 (H701986-08)

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	07/31/2017	ND	2.13	107	2.00	0.340	
Toluene*	< 0.050	0.050	07/31/2017	ND	1.98	99.1	2.00	0.837	
Ethylbenzene*	< 0.050	0.050	07/31/2017	ND	2.07	104	2.00	0.0768	
Total Xylenes*	< 0.150	0.150	07/31/2017	ND	6.23	104	6.00	0.614	
Total BTEX	<0.300	0.300	07/31/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/31/2017	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	07/31/2017	ND	184	91.8	200	0.132	
DRO >C10-C28	<10.0	10.0	07/31/2017	ND	187	93.7	200	1.30	
Surrogate: 1-Chlorooctane	72.7 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	72.9 9	% 34.7-15	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Kreene

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: / D/	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	

(one)	(505) 393-2326 FAX (505) 353-2470	*10		CANADA STATES	-	VOID DECLIECT	
Company Name: BB	BBC International, Inc.		BILL 10		ANA	ANALISIS NEWOEST	
Project Manager: Cliff Brunson	iff Brunson		P.O. #:				
Address: P.O. Box 805	805		Company: / 0/-	1			
city: Hobbs	State: NM	Zip: 88241	Attn:				
Phone #: 575-397-6388		Fax #: 575-397-0397	Address:				
Project #:		Project Owner: C. C	City:				
Project Name: //	Brush 0/	ne lost	State: Zip:	X			
Project Location: 1	valses Tran		Phone #:		*/ - -		
Sampler Name:	0		Fax#:		/-		N
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ING			
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PLEASE NOTE: Liability and Damas	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be instead to the amount paid by the client for the part of the client for the contract of the contract	for any claim arising whether based in contra	her based in contract or tort, shall be limited to the amount paid by the client for the	and by the client for the			

			TAN BAS BAS STATES	Sampler - UPS - Bus - Other:
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•	2			Relinquished By:
	}		\$ 00m	With Vin 15
Add'I Fax #:	□ Yes □ No	Fax Result:	7.31-1+ Jonniha Colken	1 1
Add'I Phone #:		Phone Result:	Date: Received By:	Relinguished By

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-6476 . 7.5

Page 11 of 11



August 11, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/07/17 17:05.

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: 08/07/2017 Sampling Date: 08/02/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP1 @ 1' (H702069-01)

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	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	2120	16.0	08/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	11.9	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	91.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.7	% 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: 08/07/2017 Sampling Date: 08/02/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP1 @ 2' (H702069-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP1 @ 3' (H7	02069-03)								
Chloride, SM4500CI-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	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP2 @ 1' (H7	02069-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP2 @ 2' (H7	02069-05)								
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	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP2 @ 3' (H7	02069-06)								
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	08/08/2017	ND	432	108	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/02/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP3 @ 1' (H702069-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	4400	16.0	08/08/2017	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	86.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.2	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/02/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP3 @ 2' (H702069-08)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP3 @ 3' (H7	02069-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 4' (H702069-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP3 @ 9' (H702069-11)

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	08/08/2017	ND	432	108	400	0.00	

Sample ID: SP4 @ 1' (H702069-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/08/2017	ND	432	108	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/02/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP4 @ 2' (H702069-13)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP4 @ 3' (H70)2069-14)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP4 @ 4' (H70)2069-15)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP4 @ 9' (H70)2069-16)								
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	08/08/2017	ND	432	108	400	0.00	
Sample ID: SP5 @ 2' (H7	02069-17)								
Chloride, SM4500Cl-B	mg	/ka	Analyze	d By: AC					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	08/08/2017	ND	432	108	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/03/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP5 @ 4' (H702069-18)

Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	08/08/2017	ND	464	116	400	0.00	QM-07
Sample ID: SP5 @ 7' (H7	02069-19)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP5 @ 10' (H	702069-20)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP5 @ 13' (H	702069-21)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP5 @ 16' (H	702069-22)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	08/08/2017	ND	464	116	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/03/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP5 @ 18' (H702069-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	0.00	

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Received: 08/07/2017 Sampling Date: 08/03/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP6 @ 1' (H702069-24)

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	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	< 0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	2880	16.0	08/08/2017	ND	464	116	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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	95.7 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	94.5	% 34.7-15	7						

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Received: 08/07/2017 Sampling Date: 08/03/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP6 @ 2' (H702069-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP6 @ 3' (H7	702069-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP6 @ 4' (H7	702069-27)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP6 @ 9' (H7	702069-28)								
Chloride, SM4500CI-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	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP7 @ 1' (H7	702069-29)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	08/08/2017	ND	464	116	400	0.00	

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Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP7 @ 2' (H702069-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP7 @ 3' (H7020	069-31)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP7 @ 4' (H7020	069-32)								
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	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP7 @ 9' (H7020	069-33)								
Chloride, SM4500Cl-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	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP8 @ 1' (H7020	069-34)								
Chloride, SM4500Cl-B	-	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	08/08/2017	ND	464	116	400	0.00	

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Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP8 @ 3' (H702069-35)

Chloride, SM4500Cl-B	mg,	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12900	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP8 @ 6' (H7	02069-36)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP8 @ 9' (H7	02069-37)								
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	08/08/2017	ND	464	116	400	0.00	
Sample ID: SP8 @ 12' (H	702069-38)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	08/08/2017	ND	464	116	400	7.14	QM-07
Sample ID: SP8 @ 15' (H	702069-39)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/08/2017	ND	464	116	400	7.14	

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Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP8 @ 18' (H702069-40)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	08/08/2017	ND	464	116	400	7.14	

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Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MALAGA, NM

mg/kg

Sample ID: SP9 @ 1' (H702069-41)

BTEX 8021B

DILX GOZID	mg/	ng .	Allulyzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2017	ND	2.03	102	2.00	1.52	
Toluene*	<0.050	0.050	08/10/2017	ND	1.88	94.1	2.00	0.520	
Ethylbenzene*	<0.050	0.050	08/10/2017	ND	1.93	96.7	2.00	0.352	
Total Xylenes*	<0.150	0.150	08/10/2017	ND	5.84	97.4	6.00	0.213	
Total BTEX	<0.300	0.300	08/10/2017	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	13900	16.0	08/08/2017	ND	464	116	400	7.14	
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	08/08/2017	ND	171	85.5	200	1.47	
DRO >C10-C28	<10.0	10.0	08/08/2017	ND	177	88.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	08/08/2017	ND					
Surrogate: 1-Chlorooctane	93.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.9	% 34.7-15	7						

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Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP9 @ 4' (H702069-42)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	08/08/2017	ND	464	116	400	7.14	
Sample ID: SP9 @ 8' (H7	02069-43)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	08/08/2017	ND	464	116	400	7.14	
Sample ID: SP9 @ 12' (H	702069-44)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	08/08/2017	ND	464	116	400	7.14	
Sample ID: SP9 @ 15' (H	702069-45)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/08/2017	ND	464	116	400	7.14	
Sample ID: SP9 @ 17' (H	702069-46)								
Chloride, SM4500Cl-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	08/08/2017	ND	464	116	400	7.14	

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Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP9 @ 18' (H702069-47)

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
752	16.0	08/08/2017	ND	464	116	400	7.14	
)2069-48)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
5440	16.0	08/08/2017	ND	464	116	400	7.14	
)2069-49)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
9600	16.0	08/08/2017	ND	464	116	400	7.14	
)2069-50)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8930	16.0	08/08/2017	ND	464	116	400	7.14	
702069-51)								
702069-51) mg	/kg	Analyze	d By: AC					
•	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result 752 02069-48) mg Result 5440 02069-49) mg Result 9600 02069-50) mg Result	Result Reporting Limit 752 16.0 02069-48) mg/kg Result Reporting Limit 5440 16.0 02069-49) mg/kg Result Reporting Limit 9600 16.0 02069-50) mg/kg Result Reporting Limit	mg/kg Analyze Result Reporting Limit Analyzed 752 16.0 08/08/2017 02069-48) Mg/kg Analyze Result Reporting Limit Analyzed 02069-49) Mg/kg Analyze Result Reporting Limit Analyzed 02069-50) Mg/kg Analyze Result Reporting Limit Analyze Analyze Analyze Result Reporting Limit Analyze	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 752 16.0 08/08/2017 ND D2069-48) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 5440 16.0 08/08/2017 ND D2069-49) Analyzed By: AC Result Reporting Limit Analyzed Method Blank 9600 16.0 08/08/2017 ND D2069-50) Mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank	mg/ky Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 752 16.0 08/08/2017 ND 464 D2069-48) Mesult Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC D2069-49) Method Blank BS 9600 16.0 08/08/2017 ND 464 D2069-50) Method Blank BS D2069-50) Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery 752 16.0 08/08/2017 ND 464 116 D2069-48) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC D2069-50) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 752 16.0 08/08/2017 ND 464 116 400 D2069-48) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 752 16.0 08/08/2017 ND 464 116 400 7.14 D2069-48) mg/kg Analyzed By: AC Analyzed By: AC True Value QC RPD 5440 16.0 08/08/2017 ND 464 116 400 7.14 D2069-49) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 9600 16.0 08/08/2017 ND 464 116 400 7.14 D2069-50) mg/kg Analyzed By: AC Analyzed By: AC True Value QC RPD Result Reporting Limit Analyzed By: AC RPD Result Reporting Limit Analyzed By: AC RPD RPD

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Fax To: (575) 397-0397

Received: 08/07/2017 Sampling Date: 08/04/2017

Reported: 08/11/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: MALAGA, NM

Sample ID: SP10 @ 15' (H702069-52)

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

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

Chloride 10400 16.0 08/08/2017 ND 464 116 400 7.14

Sample ID: SP10 @ 18' (H702069-53)

Chloride, SM4500Cl-B Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte % Recovery Chloride 11300 16.0 08/08/2017 464 400 7.14 ND 116

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Celeg D. Freene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

(505) 393-2326	505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	ional, Inc.	BILL TO	ANALYSIS REQUEST
		P.O. #:	
Address: P.O. Box 805		Company: (UC	
city: Hobbs	State: NM Zip: 88241	Attn: KRULY HOSLOW	
Phone #: 575-397-6388	Fax #: 575-397-0397	Address:	
Project #:	Project Owner: (UC)	City:	
Project Name: West Brushy 8 line leak	ine leak	State: Zip:	
Project Location: Eddy County, NM	NM	Phone #:	
Sampler Name: Jeff Ornelas		Fax #:	
FOR LAB USE ONLY	IP.	PRESERV. SAMITLING	X7
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	m	Cl
(• SP1 @ 1'	6 - 1	√ 8/2/17 1:11 PM	M < <
5. SP1 @ 2'	01		+
_	61		
11.4	<u>-</u>		M V
	6-		
6 SP2 @ 3'	0 -		<
7 • SP3 @ 1'	0	V 8/2/17 2:50 PM	W V V

Sampler - UPS - Bus - Other: Land 3.65 | No No No Test

(Circle One) 34%

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analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or conse

SP3 @ 2'

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8/2/17 8/2/17 8/2/17

3:18 PM

3:07 PM

2:50 PM

nd by client, its subsidiaries

tion of the ap

Phone Result: Fax Result: REMARKS: SP3 @ 3' SP3 @ 4'



101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-2470				ANALYSIS RECIEST	
Company Name:	BBC International, Inc.		BILL TO		ANALTSIS NEWSES:	
Project Manager:			P.O. #:			_
Address: P.O.	P.O. Box 805		Company:	70		
city: Hobbs	State: NM	77	Attn: Secret Hayo	200		
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:			
Project #:	Project Owner:	900	City:			
ame:	West Brushy 8 line leak	-	State: Zip:			
Project Location:	Eddy County, NM		Phone #:			
Sampler Name:	Jeff Ornelas		1	5		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G		
Lab I.D.	Sample I.D.	JDGE	HER: ID/BASE: E/COOL HER:	C(
./.	SP3 @ 9'	- #	√ 8/2/17	3:33 PM 🗸		
3	SP4 @ 1'	\ - -	V 8/2/17	3:35 PM 🗸		
2	SP4 @ 2'	< -	V 8/2/17	3:39 PM 🗸		
4.	SP4 @ 3'	<	8/2/17	3:45 PM 🗸		
5	SP4 @ 4'	S	8/3/17	9:49 AM 🗸		
16.	SP4 @ 9'	0	8/3/17	10:09 AM		
7.	SP5 @ 2'			10:38 AM		
18.	SP5 @ 4'	2	8/3/17	10:58 AM		
. 6	SP5 @ 7'	0	8/3/17	11:39 AM		
w.	SP5 @ 10'	0 - 1	O/O/ 17	by the client for the		
PLEASE NOTE: Liability a analyses. All claims includi service. In no event shall of	PLEASE NOTE: Liability and Damages. Caudinal's liability and clien's exclusive remedy for any claim arising whether based in contract or tot, shall be limited to the amount part of yer client, or the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be determed warved unless made in whiting and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be determed variety during thinking and received by claims, it is considered in the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be determed variety of united to the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be determed variety of united and profits included by a policy of the applicable shall be applicable.	any claim arising whether based in contract deemed waived unless made in writing and g without limitation, business interruptions. I andinal, regardiess of whether such claim i	or tort, shall be limited to the amount pair. I received by Cardinal within 30 days after toes of use, or loss of profits incurred by or toes of use, or loss of profits incurred by or shared upon any of the above stated re-	or by the claim for the ir completion of the applicable clent, its subsidiaries. asons or otherwise.		
Relinquished By	Court of or reason to the person manual to Time:	Received By:)	Phone Result:	Yes No Add'l Fax #:	
Relinquished By	7	Received By:	MILLIN	CLO	only Kurn	
5		-	IND TO TOWN		•	

Sampler - UPS - Bus - Other: / Dobleted † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Delivered By: (Circle One) 3,48

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(Sompany Name:	101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	3-2476	BILL TO		ANAL	ANALYSIS REQUEST
Project Manager:			P.O. #:			
Address: P.O.	8		Company: (UC			
city: Hobbs	State: NM	NM zip: 88241	Attn: BOUW HOS	(ell	_	
Phone #: 575-3	575-397-6388 Fax #:	575-397-0397	Address:		_	
Project #:	Project	Project Owner: (106)	City:			
Project Name: V	Project Name: West Brushy 8 line leak		State: Zip:			
Project Location:	: Eddy County, NM		Phone #:			
Sampler Name:	Jeff Ornelas		1			
FOR LAB USE ONLY		S ER	PRESERV. SAMPLING	NG	EXT	
Lab I.D.	Sample I.D.	(G)RAB OR (C # CONTAINER GROUNDWAT WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME C(TPH	
21 .	SP5 @ 13'	0 -	8/3/17	11:37 AM 🗸		
12.	SP5 @ 16'	<u> </u>	√ 8/3/17	11:43 AM 🗸		
•	SP5 @ 18'	6-	8/3/17	11:55 AM 🗸		
٠	SP6 @ 1'	5	8/3/17	~	4	
7.	SP6 @ 2'	0 -	8/3/17	1:30 PM 🗸		
76 .	SP6 @ 3'	0 -	8/3/17	1:47 PM 🗸		
3:	SP6 @ 4'	6-	8/3/17	1:55 PM 🗸		
28 .	SP6 @ 9'	0 -	8/3/17	2:22 PM 🗸		
29.	SP7 @ 1'	0 -	8/4/17	8:51 AM		
8,	SP7 @ 2'	6	V 8/4/17	9:01 AM 🗸	-	
PLEASE NOTE: Liability and Damu analyses. All claims including those service. In no event shall Cardinal I	ages. Cardinal's liability and for negligence and any oth se liable for incidental or con	client's axclusive remedy for any claim arising whether based in contract or tost, shall be instald to the amount pau by the casm or the er cause whatscever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the a sequential damages, including without installation, business interruptions, loss of up, or loss of profits incurred by client, its substitutives sequential damages, including without installation, business interruptions, loss of up or	ontract or tort, shall be limited to the amount, ng and received by Cardinal within 30 days i giona, loss of use, or loss of profits incurred to days in a based upon any of the above stated days in the based upon any of the above stated and the limited to the same of the above stated days are the same of the above stated and the limited to the same of the above stated and the limited to the same of the above stated and the limited to the same of the	paid by the cleent for the after completion of the applicable by client, its subsidiaries, I reasons or otherwise.		
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A ST	Time:	7 Paris	Į			
Relinquished By:	Date: 7	Received By:	11111	1:1	oney a	1000

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Pes
No No No

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) 3.42



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ANALYSIS REQUEST	BILL TO	Company Name: BBC International, Inc.
		(505) 393-2326 FAX (505) 393-2476
		AND Front Morland Hobbs NM 88240

	(303) 393-2320 FAA (303) 383-2410	ľ	l	ı	ı	ı	ı	1	ı	ı	ı				١	١	١	١	٤	از	2	1	ál	4	3	1				┙
Company Name:	BBC International, Inc.										B	BILL	10		1		1	1	ANALTOIS REGUES!	냳	<u>u</u>	1 <u>°</u>	1	ć	10	٦	1	1	4	
Project Manager:	r: Cliff Brunson							9	P.O.	#		2								_					_		_		_	_
Address: P.O.	Box 805							C	E	Company:	y:	0	9												_		_		_	_
city: Hobbs	State: NM	Zip:		88241	-			D	Attn:	K	3	3	J HOSK																	_
Phone #: 575-	575-397-6388 Fax #: 575-397-0397	397	-03	97				D	ddr	Address:		l,	-												_					_
Project #:	Project Owner:	0	0	6				C	City:																		_		_	_
ame:	West Brushy 8 line leak							S	State:			Z	Zip:							_							_		_	
Project Location:	n: Eddy County, NM							P	hor	Phone #:										_							_			_
Sampler Name:	Jeff Ornelas							77	Fax #:	777										_					_		_			
FOR LAB USE ONLY			\perp	٠I	8	MATRIX	×	1	P	RES	PRESERV	÷	SAMPLING	G						_							_			
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	CE / COOL	OTHER:	JIHER.	DATE	TIME	Cl															
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3	SP7 @ 9'	0	-			1	-	-		*		m	8/4/17 9	9:45 AM	<			T	\vdash	┡		+		T	_		+	+	1	
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28	SP8 @ 12'	9	-			5		\vdash	-	-	1	-	8/4/17	10:40 AM	<			T	+	_		+		T			+			
. 86	SP8 @ 15'	0	-		-	1	+	\vdash	-	5	1			11:01 AM	. <				+	_		+					+	+		
40.	8	G	-			1	H	\vdash	\vdash	-	1	-	8/4/17	11:26 AM	<	Г	Γ	r	H	L	1	Н			L		L	\vdash	L	L
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Sample Condition
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No No

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

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Company Name:	BBC International, Inc.								П			6	Æ	BILL TO	l	1	1	\mathbf{I}	┧╮	ANALYSIS KEWUESI	٦ć	Ü	- 0	2	님;	S	۵۲	1	4	1		1		_
Project Manager:	r: Cliff Brunson								P.O.	9	*		1				_	_	_				_		_		_		_			_		_
Address: P.O.	P.O. Box 805								C	ğ	Company:	×.	1	06				_	_		_		_		_		_		_					_
city: Hobbs	State: NM	Zip:		88241	==				A	Attn:	T	8	8	4 HEVE	6	_									_		_							_
Phone #: 575-	575-397-6388 Fax #: 575-397-0397	397	03	97					P	d	Address:	21		6		_	_		_		_		_				_		_					
Project #:	Project Owner:	0	9	0					C	City:						_	_		_		_						_							_
ame:	West Brushy 8 line leak								S	State:				Zip:			_		_		_		_		_									
Project Location:	n: Eddy County, NM								P	lon non	Phone #:	***					_						_											_
Sampler Name:	Jeff Ornelas								F	Fax #:	177	ı	ı				_				_		_		_							_		_
FOR LAB USE ONLY		P	_			MATRIX	R	7		P	PRESERV.	- B	<	SAMPLING			-	-	_				_		_							_		
Lab I.D.	Sample I.D.	RAB OR (C)OMP	CONTAINERS	ROUNDWATER	ASTEWATER	DIL	L	UDGE	THER:	ID/BASE:	E / COOL		THER:		7.0	(BTEX	TPH EX																
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42.	SP9 @ 4'	0	-			1					7	1		8/4/17 11:	11:41 AM	^			L		-		+		-		+		_			+		
43	SP9 @ 8'	0	-			1			\vdash		-	5		8/4/17 12:1	12:01 PM	1	_	-	1		-		+		+		+		_			-		
· th	SP9 @ 12'	0	1			5					-	1			12°45 PM	1	1	+	4		+		1				-							
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46.	SP9 @ 17'	0	-			7				-	Η.	1		8/4/17 1:2:	1:22 PM	<	L	+	_		+		+		+		+		_			+		
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PLEASE NOTE: Liability and Dam analyses. All claims including those service. In no event shall Cardinal	ages. Cardinal's liability and client's exclusive is for negligence and any other cause whatso be liable for incidental or consequental dama	any claim arising whether b deemed waived unless ma g without limitation, busines	arisin waive limitar	d un	other using	ade i	din c	ontra dons	d or t	of us	e, or	ardi loss	nal w	s remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the ever shall be deemed waved unless made in writing and received by Cost and within 30 days after completion of the ar ever shall be deemed waved unless made in writing and received by Cost profit incurred by client, its substitutes get, including without limitation, but hashes with client in broad troop any of the above stated reasons or otherwise.	he client for the a pletion of the a its subsidiaries or otherwise.	pplicabl	٠																	
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(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES	
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Company Name: BBC International, Inc.		BILL 10	AN	ANALIGIO PLAGEO.
Project Manager: Cliff Brunson		P.O. #:		
Address: P.O. Box 805		Company: (U)		
State: NM	zip: 88241	Attn: BOW HASKE		
5-397-6388 Fax #:	575-397-0397	Address:		
Project #: Project Owner:	6	City:		
Project Name: West Brushy 8 line leak		State: Zip:		
Project Location: Eddy County, NM		Phone #:		
Sampler Name: Jeff Ornelas		Fax #:		
П	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	C(
SP10 @ 12'	_	√ 8/4/17 2:	2:15 PM 🗸	
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PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive memby for any claim asking whether based in contract or lot, shall be lamide to the amount plate by the creen to represent the properties. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competition of the applicable analyses. At claims including those for negligence and any other caused whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competition of the applicable analyses. In comment shall cardinal be labely for incidental dismages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	any claim arising whether based in contra deemed waived unless made in writing as g without limitation, business interruptions	ct or tort, shall be limited to the amount paid by nd received by Cardinal within 30 days after oo , loss of use, or loss of profits incurred by clien	the clean for the applicable mpletion of the applicable t, its subsidiaries.	

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) 3.48

Relinquished By:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:



August 15, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/09/17 16:35.

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: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 13 @ 1' (H702090-01)

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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	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	11900	16.0	08/10/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	91.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.4	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 13 @ 3' (H702090-02)

Chloride, SM4500Cl-B	mg,		<u> </u>	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 13 @ 6' (H	1702090-03)								
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 13 @ 9' (H	1702090-04)								
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 13 @ 12' ((H702090-05)								
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 13 @ 15' ((H702090-06)								
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	CI-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	08/10/2017	ND	448	112	400	0.00	

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 13 @ 18' (H702090-07)

Chloride, SM4500CI-B	M4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/10/2017	ND	448	112	400	0.00	

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: MALAGA, NM

ma/ka

Sample ID: SP 14 @ 1' (H702090-08)

RTFY 8021R

BIEX 8021B	mg/	кg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	10700	16.0	08/10/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	92.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.8	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 87.8 % 34.7-157

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Rec	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 14 @ 4' (H	1702090-10)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 14 @ 9' (H	1702090-11)								
Chloride, SM4500Cl-B		/kg	Amaluma	d By: AC					

Chloride, SM4500Cl-B	mg/	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 14 @ 14' (H702090-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/10/2017	ND	448	112	400	0.00	

Sample ID: SP 11 @ 1' (H702090-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/10/2017	ND	448	112	400	0.00	

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 11 @ 4' (H702090-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 11 @ 8' (H7	02090-15)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 11 @ 12' (H	702090-16)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	08/10/2017	ND	448	112	400	0.00	
Sample ID: SP 11 @ 14' (H	702090-17)								
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	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 11 @ 15' (H	702090-18)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/10/2017	ND	432	108	400	7.14	

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 11 @ 16' (H702090-19)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 11 @ 17' (H702090-20)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 11 @ 18' (H702090-21)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 1' (H702090-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 12 @ 3' (H702090-23)

Chloride, SM4500Cl-B	mg/kg Analyzed By:			By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	08/10/2017	ND	432	108	400	7.14	

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Received: 08/09/2017 Sampling Date: 08/07/2017

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 12 @ 5' (H702090-24)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5860	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 12 @ 9' (H	1702090-25)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 12 @ 12' ((H702090-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 12 @ 15' ((H702090-27)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 12 @ 18' ((H702090-28)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	08/10/2017	ND	432	108	400	7.14	

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Fax To: (575) 397-0397

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 15 @ 1' (H702090-29)

Chloride, SM4500Cl-B	mg	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 15 @ 3' (H	702090-30)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 15 @ 5' (H	702090-31)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 15 @ 9' (H	702090-32)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	08/10/2017	ND	432	108	400	7.14	
Sample ID: SP 15 @ 12' (H702090-33)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	08/10/2017	ND	432	108	400	7.14	

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 15 @ 15' (H702090-34)

Analyte
Chloride
,

Sample ID: SP 15 @ 16' (H702090-35)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 17' (H702090-36)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/10/2017	ND	432	108	400	7.14	

Sample ID: SP 15 @ 18' (H702090-37)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2017	ND	448	112	400	3.51	

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Fax To: (575) 397-0397

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Analyzed By: MC

Project Location: MALAGA, NM

ma/ka

Sample ID: SP 16 @ 1' (H702090-38)

RTFY 8021R

BIEX 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	08/11/2017	ND	1.78	89.0	2.00	0.850	
Toluene*	<0.050	0.050	08/11/2017	ND	1.66	82.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.73	86.3	2.00	0.384	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.13	85.5	6.00	0.287	
Total BTEX	<0.300	0.300	08/11/2017	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	9330	16.0	08/10/2017	ND	448	112	400	3.51	QM-07
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	93.8	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	919	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 91.9 % 34.7-157

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Fax To: (575) 397-0397

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 16 @ 5' (H	702090-40)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 16 @ 9' (H	702090-41)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 16 @ 12' (H702090-42)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 16 @ 14' (H702090-43)								
Sample ID. SP ID W IT (

Chloride, SM4500Cl-B	mg/kg Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	08/10/2017	ND	448	112	400	3.51	

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 16 @ 15' (H702090-44)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 16 @ 18' (H702090-45)

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 1' (H702090-46)

Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 2' (H702090-47)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 3' (H702090-48)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2017	ND	448	112	400	3.51	

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 17 @ 5' (H	702090-49)								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 17 @ 7' (H	702090-50)								
Chloride, SM4500CI-B	mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 17 @ 8' (H	702090-51)								
Chloride, SM4500Cl-B		/kg	A l	d By: AC					

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 13' (H702090-52)

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	08/10/2017	ND	448	112	400	3.51	

Sample ID: SP 17 @ 18' (H702090-53)

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	08/10/2017	ND	448	112	400	3.51	

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Fax To: (575) 397-0397

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 18 @ 1' (H702090-54)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	112	16.0	08/10/2017	ND	448	112	400	3.51	
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	83.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.3	% 34.7-15	7						

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 18 @ 2' (H	1702090-55)								
Chloride, SM4500CI-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	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 18 @ 3' (H	1702090-56)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/10/2017	ND	448	112	400	3.51	
Sample ID: SP 18 @ 5' (H	1702090-57)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Pacult	Poporting Limit	Analyzed	Method Blank	RC	% Pecovery	True Value OC	DDD	Oualifier

Chloride, SM4500Cl-B	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 18 @ 7' (H702090-58)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 18 @ 8' (H702090-59)

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	08/10/2017	ND	480	120	400	14.3	

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 18 @ 13' (H702090-60)

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

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

Chloride 16.0 16.0 08/10/2017 ND 480 120 400 14.3

Sample ID: SP 18 @ 18' (H702090-61)

Chloride, SM4500Cl-B Analyzed By: AC Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 32.0 16.0 08/10/2017 480 400 14.3 ND 120

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Celey D. Keine

Qualifier



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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 19 @ SURFACE (H702090-62)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	08/10/2017	ND	480	120	400	14.3	
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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					
Surrogate: 1-Chlorooctane	85.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.3	% 34.7-15	7						

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Fax To: (575) 397-0397

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: SP 19 @ 5' (H702090-63)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 19 @ 10' (H702090-64)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ SURFACE (H702090-65)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ 5' (H702090-66)

Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP 20 @ 10' (H702090-67)

Chloride, SM4500CI-B	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/10/2017	ND	480	120	400	14.3	

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

Reported: 08/15/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: MALAGA, NM

Sample ID: NORTH @ SURFACE (H702090-68)

Chloride, SM4500Cl-B	nloride, 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	08/10/2017	ND	480	120	400	14.3	

Sample ID: EAST @ SURFACE (H702090-69)

Chloride, SM4500CI-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	08/10/2017	ND	480	120	400	14.3		

Sample ID: WEST @ SURFACE (H702090-70)

Chloride, SM4500Cl-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	08/10/2017	ND	480	120	400	14.3	

Sample ID: SOUTH @ SURFACE (H702090-71)

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	08/10/2017	ND	480	120	400	14.3	

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Notes and Definitions

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

ARDINAL LABORATORIES 505) 393-2326 FAX (505) 393-2476 101 East Marland, Hobbs, NM 88240

Project Manager: Cliff Brunson Company Name: BBC International, Inc. Phone #: 575-397-6388 city: Hobbs Address: P.O. Box 805 Project Name: West Brushy 8 Line leak Project #: Project Location: Sampler Name: FOR LAB USE ONLY Lab I.D. SP13 @ 6' SP13 @ 3' SP13 @ 1' SP13 @ 18' SP13 @ 15' SP13 @ 12' SP13@9' SP14 @ 4' SP14 @ 3' SP14 @ 1' Eddy County, NM Jeff Ornelas Sample I.D. Fax #: 575-397-0397 Project Owner: State: NM Zip: 88241 OPO GG)RAB OR (C)OMP 0 10 0 5 # CONTAINERS GROUNDWATER WASTEWATER made in writing and received by Cardinal MATRIX SOIL SLUDGE P.O. #: City: Fax #: Phone #: State: Attn: BECKY HOLYCH Company: OTHER Address: PRESERV. ACID/BASE ICE / COOL BILL TO OTHER Zip: 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 8/7/17 DATE SAMPLING after completion of the ap-by client, its subsidiaries. 8:37 AM 9:07 AM 8:51 AM 8:31 AM 10:05 AM 9:33 AM 10:46 AM 10:30 AM 10:55 AM 10:50 AM TIME ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2416 + 25

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Phone Result: Fax Result: REMARKS:

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Sampler - UPS - Bus - Other: # 75

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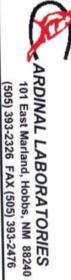
Page 23 of 30



_	(505) 393-2326 FAX (505) 393-24/b	0		l	ı	ı	ı	1	ı	ı	ı	ı			١			RECHEST	_
Company Name:	BBC International, Inc.							_			_	l	BILL TO		1		ANALISIS N		_
Project Manager:								_	P.O. #:	#					_	_			
Address: P.O.	Box 805							_	Cor	squ	Company:	-	00	7		_			
city: Hobbs	State: NM	Zip:	, m	88241	41			_	Attn:	12	V	C	M HON						
Phone #: 575-3	575-397-6388 Fax #: 575	575-397-0397	7-0	39	7			_	Ado	Address:	S		(_
Project #:	Project Owner:	ä							City:										_
Project Name: V	Project Name: West Brushy 8 Line leak								State:	te:			Zip:				_		_
Project Location:	Eddy County, NM								Ph	Phone #:	*					_	_		
Sampler Name:	Jeff Ornelas					ı	ı	L	Fax #:	ı÷						_	_		
FOR LAB USE ONLY		IP.				- A	MATRIX			PRI	PRESERV	R	SAMPLING	G					
Lab I.D.	Sample I.D.	RAB OR (C)OM	ONTAINERS	OUNDWATER	STEWATER	L		JDGE	HER:	ID/BASE:	/ COOL	HER:			<u> </u>				
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Page 24 of 30



(5	505) 393-2326 FAX (505) 393-2476	76			ANALYSIS DECLIEST	
Company Name:	BBC International, Inc.		BILL TO		ANALISIS REGOES:	
Project Manager:	Cliff Brunson		P.O. #:			
Address: P.O. Box 805			50	7 1		
city: Hobbs	State: NM	Zip: 88241	Attn: Declus Tresion			
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:			
Project #:	Project Owner:	er: (106	City:			
Project Name: W	Project Name: West Brushy 8 Line leak		State: Zip:			
Project Location:	Eddy County, NM		Phone #:			_
Sampler Name:	Jeff Ornelas		1			
FOR LAB USE ONLY			PRESERV. SAMPLING	NG		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TIME		
	SP11 @ 18'	-	(1:33 PM 🗸		
22 8	SP12 @ 1'	6-	8/7/17	1:35 PM 🗸		
_	SP12 @ 3'	0 -	8/7/17	1:29 PM 🗸		
_	SP12 @ 5'		8/7/17	+		
	SP12 @ 9'	6 -	7111/8	A IMARC:1		
•	SP12 @ 12'	0	8/7/17	7 Md 67.2		
_	SP12 @ 15'	0	8/1/11	2:54 PM		
	SP12 @ 18'	-	20017	3.30 PM V		
	SP15 @ 1'	-	8/8/17	8:46 AM		
30	SP15 @ 3'	6 - 7	V 0/0/1/	0.40 NW Y		
PLEASE NOTE: Liability and analyses. All claims including	and liab	for any claim arising whether based in co ill be deemed waived unless made in writtr luding without limitation, business interrupt	illy and client's exclusive temody for any claim arising whether based in contract or lot, and set measure an executive temody for any claim arising whether based in contract or lot, and set makes the within a contract or the complete or within 30 days after completion of the a any other cause whatevery shall be deemed waived unless made in within quarter or exceeded by Castinda within 30 days after completion of the a large or the set of the set	ter completion of the applicable client, its subsidiaries.		
Relinquished By:	out of or related to the performance	Received By:	nod, regardless of whether such claim is based upon any of the above same in Received By:	Phone Result: Yes Fax Result: Yes REMARKS:	□ No Add'I Phone #: □ No Add'I Fax #:	
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Relinquished By	Date: 9/1	Received by:	denson			
Delivered By: (Circle One)	(Circle One)	Sample Condition Cool Intact	ndition CHECKED BT.			
Sampler - UPS	Sampler - UPS - Bus - Other# 15	NO N	No UT			

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Page 25 of 30



	(FOF) 202 2226 EAY (FOF) 303-247	กั		
Company Name:	BBC International Inc		BILL TO	ANALYSIS REQUEST
Project Manager			P.O. #:	
Address: P.O. Box 805	Box 805		Company:	
city: Hobbs	State: NM	Zip: 88241	Attn: BUY HANGE	
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:	
Project #:	Project Owner:	7 (00)	City:	
Project Name: \	Project Name: West Brushy 8 Line leak		State: Zip:	
Project Location	Project Location: Eddy County, NM		Phone #:	
Sampler Name:	Jeff Ornelas		1	7
FOR LAB USE ONLY		P. MATRIX	PRESERV. SAMPLING	<u>k</u>
Lab I.D. #102.690	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL	m	BTEX TPHE
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23	SP15 @ 9'	-	_	
ru		0 -		
24		0		
×	SP15 @ 16'	0		- M
22	SP15 @ 17'	-		
27	SP15 @ 18'	0	8/8/17 10:33 AM	

SP16 @ 1"

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10:33 AM 10:45 AM

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10:47 AM

			7	TYes TYes	2 150	J	Sampler - UPS - Bus - Other 15	Sample
			CHECKED BY:		U San		Delivered By: (Circle One)	Delive
			7 10	Jerena	5 MM	Tipne . 7	In Throng 1 1/1.	7 2
			5		N Received By:	Date: q	Relinquished By:	Relinqu
		REMARKS:		A stange for	arms on	11me:/30	X Dalax	19
Yes □ No Add'l Fax #:	0	Fax Result:		. /	Necessed by	N N N	shed By:	Relinqui
Ц		Phone Result	Of the accordance acts to	s of whether such claim is based upon any or the above swind in the province of the province o	bereunder by Cardinal, regardless of why	ce of services bereunde	pessors arising out of or related to the performan	affiliates or succes
	3	client, its subsidiari	of profes incurred by	sa interruptions, loss of use, or los	all be deemed warred unions in duding without limitation, busine	er cause whatsoever shi sequental damages, inc	nalyses. All claims including those for negligence and any other cause whatboever shall be destined waven unsure annexes including those for negligence and any other cause whatboever shall be destined to destine the cause of profes incurred by client, its subsidiaries, annotation business interruptions, loss of use, or loss of profes incurred by client, its subsidiaries, annotation business interruptions, loss of use, or loss of profes incurred by client, its subsidiaries, annotation business interruptions, loss of use, or loss of profes incurred by client, its subsidiaries, annotation business in the cause of the control of the cause	analyses All c
	applicable	or completion of the	sted to the amount pa inal within 30 days after	based in contract or tort, shall be in	y for any claim arising whether I	cient's exclusive remed	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim saliving whether based in contract or tort, shall be limited to the amount paur by irre owners on well and the safe completion of the asy	PLEASE NOT
	1	10:55 AM	8/8/17	1	6 1		SP16 @ 5	
	. <	10:47 AWI W	71/9/8		0		39 SP16 @ 3'	

Cardinal cannot accept verbal changes. Please fax written changes to 505-39324761, 25 c

Page 26 of 30

TO
ARDINAL LABORATO 101 East Marland, Hobbs, (505) 393-2326 FAX (505)
ORAT d, Hobbs, :AX (505)

ORIES , NM 88240

(505) 393-2326 FAX (505) 393-2470				ANALYSIS RECIIEST
company Name: BBC International, Inc.		BILL TO		ANALIGIO REGOTO:
Project Manager: Cliff Brunson	9.	P.O. #:		
Address: P.O. Box 805	Q	Company: (UC)	, 10	
State: N	41	Attn: 1800 HOLV		
5-397-6388 Fax #:	575-397-0397	Address:		
Project #: Project Owner:	(00	City:		
Project Name: West Brushy 8 Line leak	S	State: Zip:		
Project Location: Eddy County, NM	P	Phone #:		
Sampler Name: Jeff Ornelas	77	1		
\neg		PRESERV. SAMPLING		
Lab I.D. Sample I.D.	S)RAB OR (C)ON CONTAINERS ROUNDWATER (ASTEWATER OIL IIL LUDGE	CID/BASE: CE / COOL OTHER:		
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7	0	8/8/17	12.55 FM V	
48 SP17 @ 3'	0	9/8/17	1.05 PM	
	0	8/8/17	1:11 PM	
50 SP17 @ 7'	Column arising whether based in contract o	or tort, shall be limited to the amount pai	d by the client for the	
PLEASE NOTE: Labelity and Damages, Cordinal's liability and client's exchaine trimony or any unan warray warray to the second by Cardinal within 30 days after completion of the applicable analyses. At claims including those for nepfigence and any other cause whatboover shall be deemed waired unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. At claims in what flower that flower that claims was a substitution to the applicable analyses and the state for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its substitutions. Service. In no event shall Curdinal be state for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its substitutions.	any cama annoy more than a surplement of the control waved unless made in writing and received by Cardinal wi observed waved unless made in writing and received use, or loss of prog without limitation, business interruptions, loss of use, or loss of prog without limitation, business interruptions, loss of use, or loss of programmers and advantage worth claim is based upon any of the	received by Cardinal within 30 days after as of use, or loss of profits incurred by of based upon any of the above stated re-	ir completion of the applicable client, its subsidiaries, asons or otherwise.	
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Page 27 of 30



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393	505) 393-2320 FAA (303) 333-2470			ANALYSIS REQUEST
Company Name: BBC Ir	BBC International, Inc.	BILL 10	0	THE COLOR
7201	unson	P.O. #:		
Address: P.O. Box 805		Company:		
city: Hobbs	State: NM Zip: 88241	Attn: KyClw	HISTORY	
Phone #: 575-397-6388		97 Address:		
Project #:	Project Owner:	City:		
Project Name: West Brushy 8 Line leak	hy 8 Line leak	State: Zip:		
Project Location: Eddy (Eddy County, NM	Phone #:		
	Jeff Ornelas	Fax #:		<i>T</i>
┑		MATRIX PRESERV. SA	SAMPLING	X
	Sample I.D. G)RAB OR (C)OMP CONTAINERS	ROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	DATE TIME C1	TPHE
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 + 75 °C 5.15 Chives thres

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Phone Result: Fax Result: REMARKS:

□ Yes

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Add'I Phone #:

Page 28 of 30

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(505) 393-2326 F/	101 East Marland,	ARDINAL LAB		

ORATORIES 1, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-24/0			100000000000000000000000000000000000000	2	INI VOIC BEOLIEST	
ompany Name: BBC International, Inc.		BILL TO		- 4	ANALTSIS NEGOCO:	
2000	P.	P.O. #:				
ddress: P.O. Box 805	Co	Company: (UC				
State: 1	41	Attn: BULHASKEY	8			
5-397-6388 Fax #:	575-397-0397 A	Address:				
roject #: Project Owner:	(06	City:		_		
roject Name: West Brushy 8 Line leak	St	State: Zip:				
Project Location: Eddy County, NM	PI	Phone #:				
Sampler Name: Jeff Ornelas		1		-		
FOR LAB USE ONLY		PRESERV		ΧV		
Lab I.D. Sample I.D.	G)RAB OR (C)OM CONTAINERS GROUNDWATER VASTEWATER GOIL DIL GLUDGE DTHER:	ACID/BASE: CE / COOL OTHER :	() (BTEX TPH EX		
H/02070 SP18 @ 18'	4	√ 8/8/17	2:05 PM 🗸			
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0 8 8	any claim ansing whether based in content. or deemed waived unless made in writing and reg without limitation, business interruptions, los	s of use, or loss of profits incurred by cla	completion of the applicat ent, its subsidiaries.	Die .		
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	Sample Condition Cool Intact	nitials				
Sampler - UPS - Bus - Other: 11 17	1 5 15° WYes WYes	54				

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Page 29 of 30



_	(505) 393-2326 FAX (505) 393-2476	6				ANALYSIS DECLIEST	
Company Name:	BBC International, Inc.		BILL TO		-	ANALISIS REGOTO:	1
Project Manager:	Cliff Brunson	70	P.O. #:		_		_
Address: P.O. Box 805			Company: (UC		_	_	
city: Hobbs	State: NM	Zip: 88241	Attn: Kylly Haske	(
Phone #: 575-397-6388	Fax #:	7	Address:				
Project #:	Project Owner:	CDG	City:		_		
Proiect Name: V	Project Name: West Brushy 8 Line leak	100	State: Zip:				
Project Location:	Eddy County, NM		Phone #:				
Sampler Name:	Jeff Ornelas	┖	1				
FOR LAB USE ONLY			PRESERV				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	m				
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		date addition subather based in contract	or bort, shall be limited to the amount paid to	by the client for the			
PLEASE NOTE: Liability a analyses. All claims including in present shall of	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive tendoly to any claim asterig written between it conserved to receive the properties of the applicable surayses. All claims including those for negligence and any other cause whatborever shall be deemed waived unless and and received by Cardinal within 3D days after completion of the applicable surayses. All claims including those for negligence and any other cause whatborever shall be deemed waived unless and and received by Cardinal within 3D days after completion of the applicable surayses. All claims including those for negligence and any other cause whatborever shall be deemed waived unless and and not consider the Cardinal within 3D days after completion of the applicable surayses. The control of the applicable surayses are considered and the control of the applicable surayses. The control of the applicable surayses are considered and the control of the applicable surayses. The control of the applicable surayses are control of the applicable surayses.	r any claim anseig whether based is consent to deemed waived unless made in writing and ing without limitation, business interruptions, is	received by Cardinal within 30 days after ones of use, or loss of profits incurred by clie	completion of the applica	ble		
Relinquished By:	Inquished By: Office By: Time:	Received By: The Hardina Hamman Hamm	Genop / his	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	formers for	Received By:	H .				
Delivered By Sampler - UPS	Delivered By: (Circle One) Sampler - UPS - Bus - Other: #75 - 5,150	Sample Condition Cool Intact Cool Intact No. No. No.	ion CHECKED BY:				
odinbioi . c. c		VIII NO I I NO					

Page 30 of 30



August 31, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST BRUSHY 8 LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 08/25/17 13:22.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/21/2017

Reported: 08/31/2017 Sampling Type: Soil
Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB1 @ 20' (H702256-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB1 @ 22' (H	702256-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB1 @ 25' (H	702256-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB1 @ 30' (H	702256-04)								
	U U U .,								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	-	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/21/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB1 @ 35' (H702256-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	192	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB1 @ 40' (H7	702256-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 20' (H7	702256-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 22' (H7	702256-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4660	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 25' (H7	702256-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	08/28/2017	ND	448	112	400	0.00	

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Received: 08/25/2017 Sampling Date: 08/21/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB2 @ 30' (H702256-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 35' (H70	2256-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 40' (H70	2256-12)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB2 @ 45' (H70	2256-13)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/28/2017	ND	448	112	400	0.00	
Sample ID: SB2 @ 50' (H70	2256-14)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2017	ND	432	108	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/21/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB2 @ 55' (H702256-15)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB2 @ 60' (H70	2256-16)								
Chloride, SM4500CI-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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB2 @ 65' (H70	2256-17)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB3 @ 20' (H70	2256-18)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB3 @ 22' (H70	2256-19)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/28/2017	ND	432	108	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB3 @ 25' (H702256-20)

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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB3 @ 30' (H	702256-21)								
Chloride, SM4500CI-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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB3 @ 35' (H	702256-22)								
Chloride, SM4500CI-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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB3 @ 40' (H	702256-23)								
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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB4 @ 20' (H	702256-24)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1480	16.0	08/28/2017	ND	432	108	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB4 @ 22' (H702256-25)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB4 @ 25' (H	702256-26)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB4 @ 30' (H	702256-27)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB4 @ 35' (H	702256-28)								
Chloride, SM4500CI-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	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 20' (H	-								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/28/2017	ND	432	108	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB5 @ 22' (H Chloride, SM4500Cl-B	-	/kg	Analyza	d By: AC					
Cilioride, 31-1-300CI-B	ıııg	/ Kg	Allalyze	u by. AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 25' (H	1702256-31)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	08/28/2017	ND	432	108	400	3.64	
Sample ID: SB5 @ 30' (H	1702256-32)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB5 @ 35' (H	1702256-33)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	432	108	400	3.64	

Sample ID: SB5 @ 40' (H702256-34)

oup.o == 1 0=0 @ 10 (11)									
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2017	ND	448	112	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB5 @ 45' (H702256-35)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB5 @ 50' (H	702256-36)								
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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 20' (H	702256-37)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 22' (H	702256-38)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 25' (H	702256-39)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/28/2017	ND	448	112	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB6 @ 30' (H702256-40)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 35' (H	702256-41)								
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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 40' (H	702256-42)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 45' (H	702256-43)								
Chloride, SM4500CI-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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB6 @ 50' (H	702256-44)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	

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Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB6 @ 55' (H702256-45)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB7 @ 20' (H	702256-46)								
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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB7 @ 25' (H	702256-47)								
Chloride, SM4500Cl-B	-	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB7 @ 30' (H	702256-48)								
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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB8 @ 20' (H	702256-49)								
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	08/28/2017	ND	448	112	400	3.64	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/22/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	08/28/2017	ND	448	112	400	3.64	
'02256-5 1)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	08/28/2017	ND	448	112	400	3.64	
(02256-52)								
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
64.0	16.0	08/28/2017	ND	448	112	400	3.64	
	Result 32.0 702256-51) mg Result 16.0 702256-52) mg Result	32.0 16.0 702256-51) mg/kg Result Reporting Limit 16.0 16.0 702256-52) mg/kg Result Reporting Limit	Result Reporting Limit Analyzed 32.0 16.0 08/28/2017 702256-51) mg/kg Analyze Result Reporting Limit Analyzed 702256-52) Mg/kg Analyze Result Reporting Limit Analyze Result Reporting Limit Analyze	Result Reporting Limit Analyzed Method Blank 32.0 16.0 08/28/2017 ND 702256-51) mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 16.0 16.0 08/28/2017 ND 702256-52) Mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank	Result Reporting Limit Analyzed Method Blank BS 32.0 16.0 08/28/2017 ND 448 702256-51) Mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 702256-52) Mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS	Result Reporting Limit Analyzed Method Blank BS % Recovery 32.0 16.0 08/28/2017 ND 448 112 702256-51) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC 702256-52) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 32.0 16.0 08/28/2017 ND 448 112 400 702256-51) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC 702256-52) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 08/28/2017 ND 448 112 400 3.64 702256-51) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC 702256-52) mg/kg Analyzed By: AC Result Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed By: AC

Sample ID: SB7 @ 40' (H702256-53)

Chloride, SM4500Cl-B	mg/kg Analyzed By: AC			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	

Sample ID: SB7 @ 45' (H702256-54)

Chloride, SM4500Cl-B	oloride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2017	ND	448	112	400	3.64	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/23/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB7 @ 50' (H702256-55)

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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB8 @ 35' (H	702256-56)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB8 @ 40' (H	702256-57)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB8 @ 45' (H	702256-58)								
Chloride, SM4500CI-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	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB8 @ 50' (H	702256-59)								
Chloride, SM4500CI-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	08/28/2017	ND	448	112	400	3.64	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/23/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

Project Location: EDDY COUNTY, NM

•	=								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	4240	16.0	08/28/2017	ND	448	112	400	3.64	
Sample ID: SB9 @ 23' (H	702256-61)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
		16.0	08/28/2017	ND	448	112	400	3.64	
Chloride	96.0	16.0	06/26/2017	ND	110		100	3.01	
		16.0	00/20/2017	ND	110	112	100	3.01	
Sample ID: SB9 @ 25' (H	702256-62)	16.0 /kg		d By: AC	110	112	100	3.0 1	
Sample ID: SB9 @ 25' (H	702256-62)				BS	% Recovery	True Value QC	RPD	Qualifier
Chloride Sample ID: SB9 @ 25' (HZ Chloride, SM4500Cl-B Analyte Chloride	702256-62) mg	/kg	Analyze	d By: AC					Qualifier
Sample ID: SB9 @ 25' (HZ Chloride, SM4500CI-B Analyte Chloride	702256-62) mg Result 128	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SB9 @ 25' (HZ Chloride, SM4500CI-B Analyte Chloride Sample ID: SB9 @ 30' (HZ	702256-62) mg Result 128 702256-63)	/kg Reporting Limit	Analyzed 08/28/2017	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sample ID: SB9 @ 25' (HZ Chloride, SM4500CI-B Analyte	702256-62) mg Result 128 702256-63)	/kg Reporting Limit 16.0	Analyzed 08/28/2017	d By: AC Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: SB9 @ 35' (H702256-64)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/28/2017	ND	448	112	400	3.64	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/25/2017 Sampling Date: 08/23/2017

Reported: 08/31/2017 Sampling Type: Soil

Project Name: WEST BRUSHY 8 LINE LEAK Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY COUNTY, NM

Sample ID: SB9 @ 40' (H702256-65)

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	08/28/2017	ND	448	112	400	3.64	

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Celey D. Keine



Notes and Definitions

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476



0/47-CGC (CNC) VWJ 0707-CGC	1 202 2226 EAV /EAEL 202 2476	East Mailaila, Hobbs, NM 00240	Eact Mariand Habba Mill 00040
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Company Name:	e: BBC International, Inc	al, Inc.			- 1	- 1	- 1	┙				≋I	BILL TO					ş١	ANALYSIS	اي	iii	ᆔ	REQUEST	딞	S	'					
Project Manager:									P.O. #:	#	- 1	- 1				4	┨	┪			4		-			_[┪				_
Address: P.O. Box 805). Box 805								Company:	npa	ny:	$\overline{}$	90,			_							_								
city: Hobbs		State: NM	Zip:		88241	_			Attn:	=	0	ê.	Ricky Haskell	(all									_								
Phone #: 575	575-397-6388	Fax #: 575	575-397-0397	-03	97				Address:	ires	S		4		_	_							_								
Project #:		Project Owner:		90,	9				City:							_	_	_					_								
Project Name:	West Brushy 8 line leak	eak		1					State:	e:			Zip:		_		_								-						
Project Location:	n: Eddy County, NM								Phone #:	ne	#												_								
Sampler Name:	: Jeff Ornelas								Fax #:	#						_															
FOR LAB USE ONLY				Н	ı	MA	MATRIX		Ц	Ř	PRESERV	~	SAMPLING	VG .		+	+	۲	L		4		-		Ť				Ш		
Lab I.D.	Sample I.D.	Þ.	RAB OR (C)OMP.	ONTAINERS	STEWATER			DGE	ER:	D/BASE:	COOL	ER:			(
OCP Palt	SR2 @ 35'		_	-	-	S	OI	SI	_	_	_	_	DATE	TIME	1	╀	t	$^{+}$	┸	П	╀	1	+		T		Т	1			
12	SB2 @ 40'		0	_	+	<			_	-	1	-		2:45 PM	١.	+	+	\top	_		+		-								
13	SB2 @ 45'		0	_	-	7			-	-	V	_		3:00 PM	١.	+	+	\top	4		+		+								
14	SB2 @ 50'		0	_	-	7			_	-	1	-	8/21/17	3:10 PM	<	+	+		_		-		-								
15	SB2 @ 55'		9	_		,			_		1	-	8/21/17	3:12 PM	<		1		_		-		+					_			
14	SB2 @ 60'		0	_		,					1	-	8/21/17	3:19 PM	<		1		_		-		\dashv								
17	SB2 @ 65'		9	_		,					1	~	8/21/17	3:38 PM	<																
18	SB3 @ 20'		0	_	_	,					1	~	8/22/17	9:30 AM	<						_										
19	SB3 @ 22'		0	_		1			_		1	~	8/22/17	9:33 AM	<				_		-							_			
20	SB3 @ 25'		0	_		7			_	_	1	~	8/22/17	9:38 AM	<						-							_			
LEASE NOTE: Liability and Dany nalyses. All claims including those ervice. In no event shall Cardinal to filiates or successors arising out of	LASE NOTE: Liability and Danages. Cardinal's liability and cleant's exclusive remedy for any claim arising whether based in contract or ton, shall be limited to the amount paid by the client for the nalyses. All claims including those for negligence and any other cause whatborever shall be deemed warved unless made in writing and received by Cardinal within 30 days after competion of the applicable notice. In no event shall Cardinal be liable for incidental or comsequental damages, including without limitation, business intemplicins, loss of use, or loss profits incurred by client, its subsistantes. Iffiliates or successions arising out of or related to the performance of services hereinder by Cardinal shouthers are whether each chairm is to beautiful sound and of the aboves stated executions or arising out of or related to the performance of services hereinder by Cardinal shouthers each claims in the and upon any of the aboves stated executions.	it's exclusive remedy for an suse whatsoever shall be d wental damages, including if services hereunder by C:	any claim deemed v g without I	Jaim arising whether based in contract or tort, shall be limited to the mad waked unless made in writing and received by Cardinal within mod waked unless made in writing and received by Cardinal within total limitation, business interruptions, loss of use, or loss of profits a final most disease of whether such claim is based more one or of the about final most disease.	whethe miess r n, busin	r based made in sess int	ased in contract or fort, shall be limited to the te in writing and received by Cardinal within a interruptions, loss of use, or loss of profits in the resth claim is based upon any of the above.	fract o	flort, I	se, or	e limit ardin loss o	ad to	the amount paid hin 30 days after its incurred by cli	amount paid by the client for the 0 days after completion of the a curred by client, its subsidiaries.	applicable s,								ŀ		ı		Ī	Į.	L		
Relinquished By) nulas	Lime 300	18	Thinky	d By		General fr	ž.	-4	a	.7			Phone Result: Fax Result: REMARKS:		□ Yes	N N	Add	Add'l Phone #: Add'l Fax #:	hon ax #	**										
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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: COG	
City: Hobbs State: NM Zip: 88241	Attn: Becky Hospale	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner:	City:	
Project Name: West Brushy 8 line leak	State: Zip:	
Project Location: Eddy County, NM	Phone #:	
Sampler Name: Jeff Ornelas	Fax#:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	

4702256

SB3 @ 30' SB3 @ 35'

COOO O (G)RAB OR (C)OMP

8/22/17

9:45 AM 9:49 AM

8/22/17

10:01 AM

24

SB4 @ 20'
SB4 @ 22'
SB4 @ 22'
SB4 @ 25'
SB4 @ 30'
SB4 @ 35'

1777

8/22/17 8/22/17 8/22/17 8/22/17 8/22/17

10:45 AM 10:55 AM 11:11 AM 11:26 AM 11:31 AM

8/22/17 8/22/17

12:09 PM 12:12 PM

SB5 @ 20' SB5 @ 22' Lab I.D.

Sample I.D.

CONTAINERS GROUNDWATER

WASTEWATER

SOIL
OIL
SLUDGE
OTHER:
ACID/BASE
ICE / COOL
OTHER:

DATE

TIME

PLEASE MUIE: Learning and Junnages. Caratinas subcing and caretts excusive in analyses. All claims including those for negligence and any other cause whatsoever service. In no event shall Cardinal be liable for incidental or consequental damage:	T-CAPSE OF VIE. Leaving and Learning is sealing and centra securative saming by any care frame stating white the control of the control of the amount paid by the client for the analyses. All claims including those for repligations and any other cause whitehouse that be deemed where the made in whiting and received by Cardinal whiting 30 days after completion of the applications of the control	d by the client for the r completion of the appli sient, its subsidiaries.	cable			
Relinquished By. Date.	(1) Received By:	Phone Result:	□ Yes	□ No	Add'l Phone #:	
SOS NOS	1 2 2 2	Fax Result:	□ Yes	□ No	Add'l Fax #:	
CENT DANGE TO THE SE	Im June semply".	REMARKS:				
Relinquished By	Received By:					
Jerry Time:	Jamosa allako					
Delivered By: (Circle One) 186	Sample Condition CHECKED BY					
Sampler - UPS - Bus - Other:	Cool Intact (Initials)					
Carrier	ON SING ON A STATE					



(202) 393-2325 FAX (203) 393-24/6		
Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company: COC	
City: Hobbs State: NM Zip: 88241	Attn: Becky Hashell	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner:	City:	
Project Name: West Brushy 8 line leak	State: Zip:	
Project Location: Eddy County, NM	Phone #:	
Sampler Name: Jeff Ornelas	Fax #:	
FOR LAB USE ONLY MATRIX	X PRESERV SAMPLING	

The maintaining	g out of or related to the performance of	service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or too, shall be limited to the amount paid by the client for the	46 SB6 @ 30'	39 SB6 @ 25'	38 SB6 @ 22"
Received by:	nal, regardi	out limitat	faim arisin	6 1	6 -	G -
ed by:	dess of whether such claim is	ion, business interruptions, lo	g whether based in contract o	7	((
	based upon any of th	ass of use, or loss of p	or tort, shall be limited	5	(7
	he above stated a	profits incurred by	to the amount p	8/22/17	8/22/17	8/22/17
reasons or otherwise.		y client, its subsidiarie	said by the client for ti	2:10 PM	1:59 PM	1:55 PM 🗸
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8/22/17 8/22/17 8/22/17

1:40 PM

1:11 PM

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

Cool Intact
Yes 4 Yes
No No Sample Condition

CHECKED BY:

(Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One) 7.88

Time: 5:3)3n

Hules

Sprey / K.

Phone Result: Fax Result: REMARKS:

□ Yes

O No

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

Date / 13

Date: 17

Received By:

H702254

32

SB5 @ 25' SB5 @ 30' SB5 @ 35' SB5 @ 40'

OOOOOO(G)RAB OR (C)OMP

8/22/17

8/22/17

12:38 PM 12:30 PM 8/22/17

12:22 PM

1

8/22/17

12:44 PM

12:53 PM

SB5 @ 45' SB5 @ 50' SB6 @ 20' SB6 @ 22'

Lab I.D.

Sample I.D.

CONTAINERS GROUNDWATER

WASTEWATER

SOIL

OIL SLUDGE OTHER ACID/BASE

ICE / COOL

OTHER

DATE

TIME

Page 20 of 23

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		
ny Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
Manager: Cliff Brunson	PO #:	

Company Name: BBC International, Inc.		BILL TO			ANALYSIS REQUEST
Project Manager: Cliff Brunson		P.O. #:		-	
Address: P.O. Box 805		company: COG			
City: Hobbs State: NM	Zip: 88241	Attn: Lectury Haskell	Kell		
Phone #: 575-397-6388 Fax #: 575-	575-397-0397	Address:			
Project #: Project Owner:	900	City:			
Project Name: West Brushy 8 line leak		State: Zip:			
Project Location: Eddy County, NM		Phone #:			
Sampler Name: Jeff Ornelas		Fax #:			
П	MATRIX	PRESERV SAMPLING	io .	<u> </u>	
Lab I.D. Sample I.D.	AB OR (C)OMP NTAINERS UNDWATER TEWATER	ER: /BASE: COOL	2(
H2524H	# CC	OTH	TIME		
4 SB6 @ 35'	6 - 7	8/22/17	2:16 PM 🗸		
42 SB6 @ 40'	6 - 4	8/22/17	2:22 PM 🗸		
43 SB6 @ 45'	0	8/22/17	2:30 PM 🗸		
_	0 -	8/22/17	2:40 PM 🗸		
45 SB6 @ 55'	6- 7	8/22/17	2:56 PM 🗸		
₩ SB7 @ 20'	6-	8/22/17	3:01 PM		
47 SB7 @ 25'	0 - 1	8/22/17	3:08 PM 🗸		
48 SB7 @ 30'	6 1	8/22/17	3:15 PM 🗸		
49 SB8 @ 20'	0 -	8/22/17	3:20 PM 🗸		
8 @ 25'	6 - /	8/22/17	3:25 PM 🗸		
*LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the inable. All claims including those for regisjence and any other cause whateoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	y claim arising whether based in contrac semed waived unless made in writing an without limitation, business interruptions.	redy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the shall be deemed waved unless made in writing and received by Cardinal within 30 days after competion of the ag including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	by the client for the completion of the applicable int, its subsidiaries,		
hed By:	O.		Phone Result:	Yes □ No	Add'l Phone #: Add'l Fax #:
NIM as	188	rey fr.	REMARKS:		
Dan Only	Received By:	Much			
	Sample Condition	ion CHECKED BY:			
1-	Cool Intact	Janitas 1			
Carriedal 8.031	Г	1. KI			

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476



		(A	T
(505) 393-2326	101 East Marla	ARDINAL LABORATORIES	
(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	BORATORI	
2476	88240	ES	

	(505) 393-2326 FAX (505) 393-2476											
Company Name:	BBC International, Inc.	١					8	BILL TO			ANALYSIS REQUEST	REQUEST
Project Manager:	: Cliff Brunson			T	P.O. #:	777						
Address: P.O. Box 805	Box 805			0	Company:	any		000				
city: Hobbs	State: NM	Zip:	zip: 88241	Þ	Attn: BCLW	K	5	A HASK	H			
Phone #: 575-397-6388	Fax #:	397	575-397-0397	D	Address:	SS	1					
Project #:	Project Owner:		06	0	City:							
Project Name: V	Project Name: West Brushy 8 line leak	1		co	State:			Zip:				
Project Location	Project Location: Eddy County, NM			70	Phone #:	#						
Sampler Name:	Jeff Ornelas			-	Fax #:	"						
FOR LAB USE ONLY			MATRIX		P	PRESERV.	RV	SAMPLING	G			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE	OTHER : ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	U		
61	SB9 @ 23'	0	-			1		8/23/17	10:38 AM	<		
50	SB9 @ 25'	6	-			7		8/23/17	10:49 AM	<		
	SB9 @ 30'	0			-	(8/23/17	11:11 AM	<		
64	SB9 @ 35'	0	_			2	1		11:19 AM	_		
65	SB9 @ 40'	0	-	-	+	(8/23/17	11:33 AM	<		

filiates or successors arising out of or related to the performance		Diana Danille	Voc	No	Add'I Phone #
Polinguished By:	Datif: Received By:	Phone Result:	Tes	NO	Add Filolie #.
veilidalough ph.	S 2018 1	Fax Result:	□ Yes	□ No	Add'I Fax #:
	Time: Thomas Sound IV.	REMARKS:			
Sello ANA	THE STATE OF THE S				
Relinquished By:	Darfe: Received By:				
and there are	Time				
de la company	Manual Diamin Petit				
Delivered By: (Circle One)	Sample Condition CHECKED BY:				
	Cool Intact (Initials)	•			
Sampler - UPS - Bus - Other:	of the properties to the				

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

State of New Mexico Energy Minerals and Natural Resources

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

St. Francis Dr.

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action												
						OPERATOR				l Report		Final Report
Name of Co			ng LLC		Contact: Robert McNeill							
Address:			<u> </u>	lland TX 79701		Telephone N		432	-683-7443	3		
Facility Nan	ne: West B	rushy 8 Fed	eral SWI	D #001		Facility Typ	e: SWD					
Surface Own	ner:	Federal		Mineral O	wner:				API No.	. 30-0	15-31	675
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the		Vest Line		Coun	
A	08	26S	29E	660		North	330	<u> </u>	East		Edd	y
				Latitude 32.0	84544	Longitud	e -103.980062					
				NAT	URE	OF RELI	EASE					
Type of Relea	ase:					Volume of		Ī	Volume R			
Source of Re	lense ¹	Produced	Water			Date and H	10,235 bbls our of Occurrenc	ρρ.	Date and I	0 bl Hour of Dis		,.
Flowline							7, 2017 10:45 an			uly 27, 201		
Was Immediate Notice Given? ☑ Yes ☐ No ☐ Not Required							If YES, To Whom? Ms. Weaver – NMOCD / Shelly Tucker - BLM					
					quirea	-				y Tucker - E	LM	
Was a Watero		Whom? Reb	ecca Hask	ell			our: July 27, 201 lume Impacting t					
was a water	course Reac		Yes 🗵	No		11 123, 40	nume impacting t	ne wate	reourse.			
If a Watercou	ırse was İm	nacted, Descri	ibe Fully.	:								
		,										
Describe Cau	se of Proble	em and Remed	dial Action	Taken *								
Describe Cau	SC OI FIODI	and Reme	ulai Aciioi	i Taken.								
The release was due to a ruptured flowline. The rupture was caused by power failures which caused the West Brushy 8 Federal SWD #001 to shut in due to												
recent storms. Describe Area Affected and Cleanup Action Taken.*												
Describe Are	a Anecica i	and Cicanup r	ACHOH TAN	cu.								
				ded immediately								
				one call cleared a I material. Earthe								
				r one call was plac								
currently ong	oing. COG	will present a	remediati	on work plan to tl	ne NMO	CD for appro	val prior to any s	ignifica	nt remediati	ion activitie	s.	
				is true and comp								
				id/or file certain n e of a C-141 repo								
				investigate and re								
				tance of a C-141								
federal, state.	or local lav	vs and/or regu	lations.									
Signature: 1	elecci	= Hasi	rell				OIL CON	<u>SERV</u>	ATION	DIVISIO	<u>N</u>	
Printed Name	e;	Rebecca l	Haskell			Approved by	Environmental S	pecialist	h			
Title:		Senior H	SE Coordi	nator		Approval Dat	e:		Expiration I	Date:		
E-mail Addre	2SS:	rhaskeil@	concho.c			Conditions of	Approval:		200 BA			
					$\overline{}$		A. A			Attached	1 1	

Phone:

432-683-7443

Date: August 8, 2017

^{*} Attach Additional Sheets If Necessary