

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

### **DELINEATION WORKPLAN**

OXY – STATE A&B BATTERY (Leak Date: 3/19/17)

RP # 1RP-4650 API # 30-025-23330

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4650.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 2.5 feet.

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

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

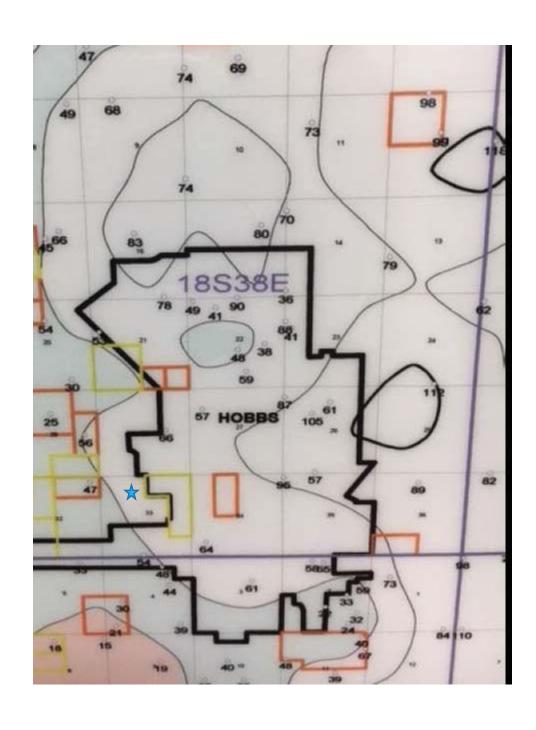
**APPROVED** 

By Olivia Yu at 9:22 am, Dec 05, 2017

NMOCD approves of the delineation for 1RP-4650. For remediation, excavate to 3 ft. bgs with confirmation bottom and sidewall samples demonstrating permissible levels.



### Oxy, State A & B Battery U/L C, Section 33, T18S, R38E Groundwater: 50'-75'





### New Mexico Office of the State Engineer

### Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned,

C=the file is

closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD		0.4		,								7. 4
POD Number	Code	Sub- basin	County	Q (64 1			Tws	Rng	X	Y	DistanceDer	othWellDen		/ater olumn
L 02316		L	LE	_		2 33	18S	38E	673275	3620569*	403	110	46	64
L 02512		L	LE	1 .	3 2	2 33	18S	38E	673181	3620265*	428	150	55	95
<u>L 11274</u>		L	LE	2	1 2	2 33	18S	38E	673374	3620668*	513	230		
<u>L 02223 POD2</u>		L	LE	2	3 2	2 33	18S	38E	673381	3620265*	589	212	60	152
<u>L 02264</u>		L	LE		2	2 33	18S	38E	673483	3620367*	641	93	56	37
<u>L 06574</u>		L	LE	3	3 1	33	18S	38E	672376	3620051*	712	120	52	68
L 01786 POD1		L	LE	1 2	2 2	2 33	18S	38E	673576	3620676*	713	104	55	49
<u>L 05026</u>		L	LE		4	1 28	18S	38E	673468	3621173*	853	110	48	62
<u>L 02992</u>		L	LE	1 4	4 4	1 28	18S	38E	673569	3621079*	867	95	42	53
<u>L 07527</u>		L	LE	3	1 3	3 28	18S	38E	672353	3621260*	869	380		
<u>L 07536</u>		L	LE	4	4 2	2 32	18S	38E	672173	3620044*	870	360		
L_02272		L	LE	4	2 2	2 33	18S	38E	673776	3620476*	908	105	60	45
<u>L_04750</u>		L	LE	4	2 3	33	18S	38E	672986	3619655*	914	86	45	41
<u>L 02232</u>		L	LE		3	3 33	18S	38E	672693	3619547*	1030	112	56	56
<u>L 08223</u>		L	LE		3	3 33	18S	38E	672693	3619547*	1030	120	52	68
L 00143 POD2		L	LE	3	1 3	33	18S	38E	672383	3619648*	1036	108		
L 09684		L	LE	4	4 1	28	18S	38E	672949	3621670*	1110	120	65	55
L 02097 POD2		L	LE	1	1 1	34	18S	38E	673979	3620683*	1113	214	68	146
<u>L 03160</u>		L	LE	3	4 1	28	18S	38E	672749	3621670*	1114	119	45	74
<u>L 09116</u>		L	LE	1 2	2 4	1 28	18S	38E	673561	3621482*	1149	130	68	62
<u>L 07526</u>		L	LE	3	3 2	2 28	18S	38E	673151	3621678*	1150	390		
L 01701 POD1		L	LE	4	4 3	33	18S	38E	672894	3619353*	1209	104	50	54
L 10938		L	LE	4	4 3	33	18S	38E	672894	3619353*	1209	183		
L 02588		L	LE	4	3 2	2 28	18S	38E	673351	3621678*	1214	130	53	77
L 13342 POD1		L	LE	3	3 1	34	18S	38E	674044	3620065	1273	100		
L 08564		L	LE		3 3	3 33	18S	38E	672492	3619346*	1273	125	50	75
L 13342 POD5		L	LE	3	3 1	34	18S	38E	674040	3620048	1276	35		
L 13342 POD3		L	LE	3	3 1	34	18S	38E	674049	3620067	1276	103		
L 00220 S10		L	LE	4 2	2 4	1 33	18S	38E	673791	3619669*	1281	80		
L 13342 POD4		L	LE	3	3 1	34	18S	38E	674049	3620052	1282	35		

L 13342 POD2		L	LE	3 3 1 34	18S	38E	674059	3620064	1286	105		
<u>L 07524</u>		L	LE	4 1 1 34	18S	38E	674179	3620483*	1309	350		
<u>L 07434</u>		L	LE	4 4 2 29	18S	38E	672143	3621656*	1314	125	55	70
<u>L 03299</u>		L	LE	1 4 4 33	18S	38E	673599	3619466*	1315	110	61	49
<u>L 07523</u>		L	LE	1 4 4 33	18S	38E	673599	3619466*	1315	350		
<u>L 07528</u>		L	LE	4 1 4 29	18S	38E	671747	3621246*	1316	380		
<u>L 11176</u>		L	LE	4 1 4 29	18S	38E	671747	3621246*	1316	220	65	155
<u>L 02836</u>		L	LE	3 3 4 33	18S	38E	673196	3619259*	1342	129	53	76
L 13342 POD7		L	LE	1 1 3 34	18S	38E	674095	3619970	1358	35		
L 13342 POD6		L	LE	1 1 3 34	18S	38E	674097	3619973	1359	35		
L 13342 POD8		L	LE	2 1 3 34	18S	38E	674100	3619967	1364	45		
L 13342 POD9		L	LE	2 1 3 34	18S	38E	674103	3619964	1368	35		
<u>L 07679</u>		L	LE	2 3 2 28	18S	38E	673351	3621878*	1400	110	68	42
<u>L 06488</u>		L	LE	3 3 2 32	18S	38E	671569	3620037*	1404	120	57	63
L 12068 POD1		L	LE	2 4 2 29	18S	38E	672190	3621798	1411	160		
L 07535		L	LE	1 4 4 32	18S	38E	671987	3619438*	1430	360		
L 08429		L	LE	2 1 4 29	18S	38E	671747	3621446*	1430	120	62	58
<u>L 07204</u>		L	LE	4 4 32	18S	38E	672088	3619339*	1452	125	64	61
<u>L 09390</u>		L	LE	4 4 32	18S	38E	672088	3619339*	1452	120	30	90
L 06717		L	LE	4 2 29	18S	38E	672044	3621757*	1453	130	55	75
<u>L 07427</u>		L	LE	4 2 29	18S	38E	672044	3621757*	1453	130	60	70
L 07432 POD1		L	LE	4 2 29	18S	38E	672044	3621757*	1453	125	55	70
<u>L 07839</u>		L	LE	4 2 29	18S	38E	672044	3621757*	1453	120	60	60
<u>L 08135</u>		L	LE	4 2 29	18S	38E	672044	3621757*	1453	130	62	68
<u>L 08737</u>		L	LE	4 2 29	18S	38E	672044	3621757*	1453	132	60	72
<u>L 09586</u>		L	LE	4 2 29	18S	38E	672044	3621757*	1453	120	78	42
L 12052 POD1		L	LE	2 4 2 29	18S	38E	672150	3621825	1454	218		
L 12304 POD1		L	LE	2 4 2 29	18S	38E	672140	3621821	1456	155		
<u>L 07534</u>		L	LE	1 1 4 32	18S	38E	671577	3619834*	1485	360		
<u>L 00940</u>		L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	206	133	73
<u>L 00940</u>	R	L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	206	133	73
<u>L 00941</u>		L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	205	133	72
<u>L 00941</u>	R	L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	205	133	72
<u>L 00942</u>		L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	210	133	77
<u>L 00942</u>	R	L	LE	3 2 1 34	18S	38E	674382	3620490*	1511	210	133	77
<u>L 00943</u>		L	LE	3 2 1 34		38E	674382	3620490*	1511	206	133	73
L 00943	R	L	LE	3 2 1 34		38E	674382	3620490*	1511	206	133	73
L 00944		L	LE	4 2 1 34		38E	674382	3620490*	1511	206	140	66
L 00944	R	L	LE	4 2 1 34			674382	3620490*	1511	206	140	66

<u>L 00228</u>	L	LE	1	2 1	04	19S	38E	672800	3619051*	1512	180	150	30
<u>L 00227</u>	L	LE	2	1 1	04	19S	38E	672597	3619044*	1542	180	62	118
L 12636 POD1	L	LE	2	2 1	32	18S	38E	671302	3620719	1577	191		
L 12855 POD1	L	LE	2	2 1	32	18S	38E	671302	3620719	1577	181		
<u>L 07540</u>	L	LE	1	1 1	04	19S	38E	672397	3619044*	1590	350		
<u>L 08317</u>	L	LE	1	1 1	04	19S	38E	672397	3619044*	1590	150	50	100
<u>L 07656</u>	L	LE	4	1 2	28	18S	38E	673344	3622081*	1590	110	68	42
<u>L 07678</u>	L	LE	4	1 2	28	18S	38E	673344	3622081*	1590	110	68	42
L 08229	L	LE	1	4 2	29	18S	38E	671943	3621856*	1592	115	68	47
<u>L 08448</u>	L	LE	1	4 2	29	18S	38E	671943	3621856*	1592	130	38	92
L 01196 POD1	L	LE	4	4 4	33	18S	38E	673799	3619266*	1593	100	56	44
<u>L 14213 POD1</u>	L	LE	3	3 2	29	18S	38E	671610	3621586	1625	215	63	152
<u>L 13997 POD1</u>	L	LE	2	4 3	29	18S	38E	671343	3621125	1629	109	62	47
<u>L 01340</u>	L	LE		4 1	34	18S	38E	674490	3620188*	1660	102	80	22
<u>L 08485</u>	L	LE		1 1	28	18S	38E	672440	3622167*	1662	120	61	59
L 01592 POD1	L	LE	1	2 2	04	19S	38E	673605	3619065*	1666	82	50	32
<u>L 07754</u>	L	LE	4	2 2	29	18S	38E	672136	3622059*	1668	207	50	157
<u>L 08228</u>	L	LE	4	2 2	29	18S	38E	672136	3622059*	1668	115	68	47
<u>L 08370</u>	L	LE	4	2 2	29	18S	38E	672136	3622059*	1668	120	60	60
<u>L 02646</u>	L	LE	2	2 2	05	19S	38E	672194	3619037*	1668	80	35	45
<u>L 02966</u>	L	LE	2	2 2	05	19S	38E	672194	3619037*	1668	43	27	16
<u>L 03865</u>	L	LE	2	2 2	05	19S	38E	672194	3619037*	1668	50	29	21
									Average D	epth to Wat	er:	69 fee	t
									_		_		

Record Count: 91

**UTMNAD83 Radius Search (in meters):** 

**Easting (X):** 672872 **Northing (Y):** 3620562 **Radius:** 1700

\*UTM location was derived from PLSS - see Help

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

3/23/17 3:52 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

27 feet

150 feet

Minimum Depth:

Maximum Depth:

	Public Land Survey System (PLSS)  Q64: Q16: NE Q4: NW Sec: 33 Tws: 18S Rng: 38E
	State Plane Coordinate System - NAD27  X: 0 ft Y: 0 ft Zone:
	State Plane Coordinate System - NAD83  X: 0 ft Y: 0 ft Zone:
	Degrees/Minutes/Seconds  Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "  Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
	UTM - NAD27  Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:
I.	SUBMIT
	All Conversion Results are displayed as NAD 1983 UTM Zone 13
	Easting (X): 672872.0 mtrs Northing (Y): 3620562.0 mtrs
	~~ Please keep screen open to copy UTM values for Reports. ~~

### Laboratory Analytical Results Summary State A B Battery

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 2.5	SP1@3	SP1 @ 4'	SP1 @ 5.	SP1 @ 10.
Analyte	Method	Date	4/4/17	4/4/17	4/4/17	4/19/17	4/19/17	4/19/17	4/19/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	g3//gm	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	050.0>	090'0>	<0.050
Toluene	BTEX 8021B		8.69	0.326	0.641	<0.050	050.0>	050.0>	<0.050
Ethylbenzene	BTEX 8021B		19.7	1.02	696'0	<0.050	050.0>	050.0>	<0.050
Total Xylenes	BTEX 8021B		45.9	2.61	2.09	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		74.3	3.96	3.7	<0.300	<0.300	008'0>	<0.300
Chloride	SM4500CI-B		n/a	n/a	192	288	887	807	941
GRO	TPH 8015M		2040	116	19.7	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		10100	2170	178	<10.0	<10.0	<10.0	<10.0

		Sample	SP2@1	SP2 @ 2'	SP2 @ 2' SP2 @ 2.5'	SP2@3	SP2 @ 4'	SP2 @ 9'
Analyte	Method	Date	4/4/17	4/4/17	4/4/17	4/20/17	4/20/17	4/20/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	050.0>	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		2.5	050.0>	0.145	<0.050	<0.050	<0.050
Ethylbenzene BTEX 8021B	BTEX 8021B		8.18	0.125	0.224	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		19.9	868.0	0.541	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		30.6	0.523	0.911	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		n/a	e/u	224	112	112	192
GRO	<b>TPH 8015M</b>		747	13.6	<10.0	<10.0	<10.0	<10.0
DRO	<b>TPH 8015M</b>		2060	269	265	<10.0	<10.0	<10.0

Method   Date   Color   Colo	Sample SP3@1'	1' SP3 @ 2'	SP3 @ 2.5	SP3@3'	SP3 @ 8.
BTEX 8021B  BIEX 8021B  BIEX 8021B  BIEX 8021B  SIX BIEX 8021B  SIX BIEX 8021B  SIX BIEX 8021B  TPH 8015M	Date	4/4/17	4/4/17	4/20/17	4/20/17
BTEX 8021B   San BTEX	gy/gm	mg/Kg	mg/Kg	mg/Kg	mg/Kg
BTEX 8021B BTEX 8021B ETEX 8021B BTEX 8021B SM4500C:B TPH 8015M		0 <0.050	<0.050	<0.050	<0.050
BTEX 8021B BTEX 8021B BTEX 8021B SM4500CI-B TPH 8015M		<0.050	0.054	090'0>	<0.050
EX BTEX 8021B EX BTEX 8021B SM4500CI-B TPH 8015M		0.079	680'0	090'0>	<0.050
EX BTEX 8021B SM4500CI-B TPH 8015M		0.258	0.217	<0.150	<0.150
SM4500CI-B TPH 8015M	•	0.338	0.359	006.0>	<0.300
TPH 8015M		n/a	176	48	32
		<50.0	<10.0	<10.0	<10.0
DRO TPH 8015M 474	474 474	124	106	<10.0	<10.0

		Sample	SP4@1	SP4 @ 2.	SP4 @ 2.5	SP4@3	SP4 @ 8.
Analyte	Method	Date	4/4/17	4/4/17	4/4/17	4/20/17	4/20/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	050.0>	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.231	050.0>	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.15	0.158	0.057	<0.050	<0.050
Total Xylenes	BTEX 8021B		3.19	0.488	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		4.57	0.646	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		n/a	e/u	176	128	112
GRO	TPH 8015M		9.76	0.05>	<10.0	<10.0	<10.0
DRO	<b>TPH 8015M</b>		1290	208	189	<10.0	<10.0

		Sample	SP5@1'	SP5 @ 2'	SP5 @ 2.5'	SP5@3'	SP5 @ 4'	SP5 @ 9'
Analyte	Method	Date	4/4/17	4/4/17	4/4/17	4/20/17	4/20/17	4/20/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		050.0>	050.0>	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.148	050.0>	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.828	0.178	<0.050	<0.050	<0.050	<0.050
<b>Total Xylenes</b>	otal Xylenes BTEX 8021B		2.37	0.526	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		3.35	0.704	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		u/a	e/u	176	96	64	48
GRO	TPH 8015M		102	0.05>	<10.0	<10.0	<10.0	<10.0
DRO	<b>TPH 8015M</b>		1240	111	126	<10.0	<10.0	<10.0
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		olamo 0	NORTH @	NORTH @
		Sample	SURFACE	SURFACE
Analyte	Method	Date	4/4/17	4/20/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		850.0	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500CI-B		288	128
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		364	<10.0

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		oambie	SURFACE	SURFACE
Analyte	Method	Date	4/4/17	4/20/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.091	<0.050
Ethylbenzene	BTEX 8021B		0.148	<0.050
Total Xylenes BTEX 8021B	BTEX 8021B		0.353	<0.150
Total BTEX	BTEX 8021B		0.592	<0.300
Chloride	SM4500CI-B		256	128
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		306	<10.0

		Sample	WEST @	@ ISBM
			SURFACE	SURFACE
Analyte	Method	Date	4/4/17	4/20/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.136	<0.050
Ethylbenzene	BTEX 8021B		0.108	<0.050
<b>Total Xylenes</b>	BTEX 8021B		0.189	<0.150
Total BTEX	BTEX 8021B		0.434	<0.300
Chloride	SM4500CI-B		256	112
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		260	<10.0

		olumo 0	@ нтиos	@ нтпоs
		Sample	SURFACE	SURFACE
Analyte	Method	Date	4/4/17	4/20/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	050.0>
Toluene	BTEX 8021B		0.444	050'0>
Ethylbenzene	BTEX 8021B		0.572	<0.050
<b>Total Xylenes</b>	BTEX 8021B		1.23	<0.150
Total BTEX	BTEX 8021B		2.24	<0.300
Chloride	SM4500CI-B		240	128
GRO	TPH 8015M		13.7	<10.0
DRO	TPH 8015M		797	<10.0



April 12, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE A & B

Enclosed are the results of analyses for samples received by the laboratory on 04/05/17 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 1 @ 1' (H700894-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	8.69	1.00	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	19.7	1.00	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	45.9	3.00	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	74.3	6.00	04/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 72-148	}						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2040	50.0	04/06/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	10100	50.0	04/06/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	195	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	215	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017 Project Name: STATE A & B Project Number: NONE GIVEN

Sampling Date: 04/04/2017 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Project Location: HOBBS, NM

### Sample ID: SP 1 @ 2' (H700894-02)

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	04/07/2017	ND	2.20	110	2.00	0.945	
Toluene*	0.326	0.050	04/07/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	1.02	0.050	04/07/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	2.61	0.150	04/07/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	3.96	0.300	04/07/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	121 9	% 72-148	}						
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	116	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	2170	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	131 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	135 9	% 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: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 1 @ 2.5' (H700894-03)

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	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	0.641	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.969	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	2.09	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	3.70	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4 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	192	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.7	10.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	178	10.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	72.5 %	28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.4 9	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 2 @ 1' (H700894-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	2.50	0.500	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	8.18	0.500	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	19.9	1.50	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	30.6	3.00	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 72-148	3						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	747	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	5060	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	173	% 28.3-16	<i>i</i> 4						
Surrogate: 1-Chlorooctadecane	171	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 2 @ 2' (H700894-05)

BTEX 8021B	EX 8021B mg/kg			d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.125	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	0.398	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	0.523	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 72-148	}						
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	13.6	10.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	592	10.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	106 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	126 9	% 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: 04/05/2017 Reported: 04/12/2017

Project Name: STATE A & B Project Number: NONE GIVEN Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: SP 2 @ 2.5' (H700894-06)

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	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	0.145	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.224	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	0.541	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	0.911	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 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	224	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	265	10.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	106 %	% 28.3-16	4						
G 1 GH 1	1046	247.15	7						

104 % 34.7-157 Surrogate: 1-Chlorooctadecane

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

HOBBS, NM

ma/ka

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H700894-07)

Project Location:

RTFY 8021R

BILA 6021B	ilig/	ĸy	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	0.114	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.461	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	1.35	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	1.92	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 72-148	}						
TDU 901EM	ma/	'ka	Analyzo	d Byr MC					

Analyzed By: MC

TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	474	50.0	04/07/2017	ND	215	107	200	2.74	

Surrogate: 1-Chlorooctane 109 % 28.3-164
Surrogate: 1-Chlorooctadecane 108 % 34.7-157

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Celeg D. Keine



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date:

04/04/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

### Sample ID: SP 3 @ 2' (H700894-08)

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	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	<0.050	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.079	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	0.258	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	0.338	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 72-148	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	<50.0	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	124	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	83.6	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	91.5	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/05/2017 Reported: 04/12/2017

Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 3 @ 2.5' (H700894-09)

BTEX 8021B	8021B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2017	ND	2.20	110	2.00	0.945	
Toluene*	0.054	0.050	04/08/2017	ND	2.01	100	2.00	0.959	
Ethylbenzene*	0.089	0.050	04/08/2017	ND	2.01	100	2.00	1.01	
Total Xylenes*	0.217	0.150	04/08/2017	ND	5.73	95.5	6.00	1.10	
Total BTEX	0.359	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 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	176	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/07/2017	ND	200	99.9	200	2.77	
		10.0	04/07/2017	ND	215	107	200	2.74	

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

92.4 %

34.7-157



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017 Project Name: STATE A & B

NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 4 @ 1' (H700894-10)

Project Number:

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	0.231	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	1.15	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	3.19	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	4.57	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 72-148	}						
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	97.6	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	1290	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	117	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	120	% 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: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 4 @ 2' (H700894-11)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	<0.050	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.158	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	0.488	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	0.646	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 72-148	}						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	208	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	97.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.0	% 34.7-15	7						

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Fax To: (575) 397-0397

Received: 04/05/2017 Reported: 04/12/2017

Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 4 @ 2.5' (H700894-12)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	< 0.050	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.057	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	<0.150	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	<0.300	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5 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	176	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	189	10.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	93.8 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	101 %	6 34.7-15	7						

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Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 5 @ 1' (H700894-13)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	0.148	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.828	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	2.37	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	3.35	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 72-148	}						
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	102	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	1240	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	95.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	95.1	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/05/2017 Reported: 04/12/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 5 @ 2' (H700894-14)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	<0.050	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.178	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	0.526	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	0.704	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	}						
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/07/2017	ND	200	99.9	200	2.77	
DRO >C10-C28	171	50.0	04/07/2017	ND	215	107	200	2.74	
Surrogate: 1-Chlorooctane	100 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	103 9	% 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: 04/05/2017 Reported: 04/12/2017

Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SP 5 @ 2.5' (H700894-15)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	<0.050	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	<0.050	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	<0.150	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	<0.300	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3 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	176	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/07/2017	ND	200	99.9	200	2.77	
	126	10.0	04/07/2017	ND	215	107	200	2.74	

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

86.5 %

34.7-157

Tamara Oldaker

Sample Received By:



### Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/05/2017 Sampling Date: 04/04/2017

Reported: 04/12/2017 Sampling Type: Soil
Project Name: STATE A & B Sampling Condition: Cool & Intact

Project Location: HOBBS, NM

NONE GIVEN

103 %

34.7-157

Project Number:

Surrogate: 1-Chlorooctadecane

### Sample ID: NORTH @ SURFACE (H700894-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	<0.050	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.058	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	<0.150	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	<0.300	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 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	288	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·									
GRO C6-C10	<10.0	10.0	04/06/2017	ND	187	93.7	200	10.6	

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

Fax To: (575) 397-0397

Received: 04/05/2017 Reported: 04/12/2017

Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: EAST @ SURFACE (H700894-17)

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	0.091	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.148	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	0.353	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	0.592	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 72-148	,						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/07/2017	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/06/2017	ND	187	93.7	200	10.6	
DRO >C10-C28	306	10.0	04/06/2017	ND	191	95.5	200	10.6	
Surrogate: 1-Chlorooctane	86.3	% 28.3-16	4						

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

97.2 %

34.7-157



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/05/2017 Reported:

04/12/2017 STATE A & B

NONE GIVEN

Project Location: HOBBS, NM Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: WEST @ SURFACE (H700894-18)

Project Name:

Project Number:

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	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	0.136	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.108	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	0.189	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	0.434	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 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	256	16.0	04/07/2017	ND	432	108	400	3.64	QR-03
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	04/06/2017	ND	187	93.7	200	10.6	
DRO >C10-C28	260	10.0	04/06/2017	ND	191	95.5	200	10.6	

Surrogate: 1-Chlorooctane 94.0 % 28.3-164 104 % 34.7-157 Surrogate: 1-Chlorooctadecane

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Fax To: (575) 397-0397

Received: 04/05/2017

Reported: 04/12/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/04/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SOUTH @ SURFACE (H700894-19)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/08/2017	ND	2.13	107	2.00	0.646	
Toluene*	0.444	0.050	04/08/2017	ND	1.96	98.2	2.00	0.712	
Ethylbenzene*	0.572	0.050	04/08/2017	ND	1.95	97.5	2.00	0.953	
Total Xylenes*	1.23	0.150	04/08/2017	ND	5.57	92.9	6.00	0.976	
Total BTEX	2.24	0.300	04/08/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1 %	6 72-148	}						
Chloride, SM4500CI-B	mg/l	kg	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	240	16.0	04/07/2017	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.7	10.0	04/06/2017	ND	187	93.7	200	10.6	
DRO >C10-C28	262	10.0	04/06/2017	ND	191	95.5	200	10.6	
-									

Surrogate: 1-Chlorooctane 95.7 % 28.3-164 Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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### **Notes and Definitions**

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S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.	BILL TO	
Project Manager: Cliff Brunson	P.O. #:	ANALYSIS REQUEST
Address: P.O. Box 805	000	
City: Hobbs State: NM Zip:	88241 Attn:	
5		
Project #: Project Owner:		
Project Name: 57275 A + 13	State: Zip:	
Project Location: 1 bbs MM	*	~
Sampler Name:	Fax#:	デンソー - -
FOR LAB USE ONLY	MATRIX PRESERV SAMPLING	1-
(s)OMP.	ER R	7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
Hand Sample I.D. Sample I.D. R. C.	CONTAINER ROUNDWAT /ASTEWATER DIL IL LUDGE THER: CID/BASE: E / COOL THER:	13
10/05	_>	XX
10000	// × . / 9//	**
2) 10605 4	7 936	X 7 X
5 1 2 6	× × × × × × × × × × × × × × × × × × ×	×
6 126/2	× /046	777
2 cx dx 8	7 1/33	× ,
9 21/2 6	1 2 2	***
EASE NOTE: Liability and Damage/ Cardinlo's liability and client's exclusive remody for any claim	arising whether based in contract or test shall be in a supplementary of the shall be	
anyses. All claims including bose for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal to the Binount laid by the client (or the client (or the processor) are consistent of the processor arising and received by Cardinal within 30 days after completion of the applicable faileds or successors arising out of or related to the performance of services hereunder by Cardinal, requireds so whether such claim is based upon any of the above stated reasons or otherwise.	er cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion for the sequential distances, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutives configures to demander by Cardinal, requirdless of whether such claim is based upon any of the above stated reasons or otherwise.	e applicable ses.
10 G Time:	Fax Result: REMARKS:	ult: □ Yes □ No Add'l Phone #: □ Yes □ No Add'l Fax #:
Date: 4-5-17	Received By:	
Delivered By: (Circle One)		
ampler - UPS - Bus - Other: _ 8.76	Cool Intact (Initials)	

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 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: NXV	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner: 1XY	City:	
Project Name: State A+B	State: Zip:	
Project Location: Hobbs, MA	Phone #:	
Sampler Name: 1/0	Fax #:	
	MATRIX PRESERV. SAMPLING	
RS ATER		1 / P
Lab I.D. Sample I.D.  RAB OR ( ONTAINE OUNDWA STEWATI		
# G	AC	
12 7 2/12 21	X, X 7 7000 X	~ ~ ~
13 5050/	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\frac{\frac{1}{2}}{2}
14 , 2 , 61	X 230	47
15 2/2 6!	X 257 X	XX
16 North & SUR G	7 300	XXX
17 Fast o Sex 5	7 305	
18 West OSCA CI	7 3/7 X	TX TX
19 Southose 61	V 831	
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Received By:	Phone Result: Fax Result: REMARKS:	Yes No Add'I Phone #: Yes No Add'I Fax #:
Received By: Date: Page Received By: Time: 90 MILLA	Maker	
	Sample Condition CHECKED BY: Cool Intact (Initials)	
Sampler - UPS - Bus - Other: -8.76	Pres Pres 12 AX	

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



April 27, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE A & B

Enclosed are the results of analyses for samples received by the laboratory on 04/21/17 10:43.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/19/2017

Sampling Type: Soil

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

### Sample ID: SP 1 @ 3' (H701070-01)

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	04/25/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/25/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/25/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/25/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/25/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	288	16.0	04/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2017	ND	184	91.9	200	1.36	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	194	97.1	200	1.76	
Surrogate: 1-Chlorooctane	67.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	62.8	% 34.7-15	7						

### Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/19/2017

Sampling Type: Soil

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

### Sample ID: SP 1 @ 4' (H701070-02)

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	04/25/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/25/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/25/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/25/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/25/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	288	16.0	04/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	80.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.5	% 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: 04/21/2017 Reported: 04/27/2017

04/27/2017 STATE A & B

NONE GIVEN HOBBS, NM Sampling Date: 04/19/2017

Sampling Type: Soil

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

### Sample ID: SP 1 @ 5' (H701070-03)

Project Name:

Project Number:

Project Location:

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	04/25/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	< 0.050	0.050	04/25/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	< 0.050	0.050	04/25/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/25/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/25/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 72-148							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	80.9 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	78.0 9	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/19/2017

Sampling Type: Soil

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

### Sample ID: SP 1 @ 10' (H701070-04)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	176	16.0	04/25/2017	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	78.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.0	% 34.7-15	7						

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

Fax To: (575) 397-0397

Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

### Sample ID: SP 2 @ 3' (H701070-05)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	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	112	16.0	04/25/2017	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	81.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	80.7	% 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: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 2 @ 4' (H701070-06)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	< 0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	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	112	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	90.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	88.5	% 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: 04/21/2017 Reported: 04/27/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 2 @ 9' (H701070-07)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	< 0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	< 0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	192	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	90.79	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.5 9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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.



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN
Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 3 @ 3' (H701070-08)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	< 0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	93.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.2	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 3 @ 8' (H701070-09)

Project Location:

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	< 0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 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	32.0	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	88.4 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.8 9	% 34.7-15	7						

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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

### Sample ID: SP 4 @ 3' (H701070-10)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	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	128	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	89.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	86.3	% 34.7-15	7						

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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

### Sample ID: SP 4 @ 8' (H701070-11)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	112	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	87.1	% 28.3-16	4						

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

84.8 %

34.7-157



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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 5 @ 3' (H701070-12)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	< 0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	< 0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 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	96.0	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	91.9 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	93.8 9	% 34.7-15	7						

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Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 5 @ 4' (H701070-13)

Project Location:

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	82.5	28.3-16	4						
Surrogate: 1-Chlorooctadecane	81.1	% 34.7-15	7						

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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

1/2017 7/2017

Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SP 5 @ 9' (H701070-14)

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	< 0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 72-148							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	88.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	89.2	% 34.7-15	7						

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Received: 04/21/2017

Reported: 04/27/2017 Project Name: STATE A & B NONE GIVEN Project Number:

HOBBS, NM

Sampling Date: 04/20/2017 Sampling Type: Soil

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

# Sample ID: NORTH (H701070-15)

Project Location:

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	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	128	16.0	04/26/2017	ND	432	108	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	04/24/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/24/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	79.7	28.3-16	4						
Surrogate: 1-Chlorooctadecane	75.6	% 34.7-15	7						

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Celeg D. Kreene



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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

Project Location: HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: EAST (H701070-16)

BTEX 8021B	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	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	128	16.0	04/26/2017	ND	432	108	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	04/25/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	77.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	77.2	% 34.7-15	7						

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Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: WEST (H701070-17)

Project Location:

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	04/26/2017	ND	1.98	99.0	2.00	0.347	
Toluene*	<0.050	0.050	04/26/2017	ND	1.84	91.8	2.00	0.698	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.81	90.5	2.00	1.00	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.17	86.2	6.00	0.551	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	112	16.0	04/26/2017	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	73.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.5	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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.



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/21/2017

Reported: 04/27/2017
Project Name: STATE A & B
Project Number: NONE GIVEN

HOBBS, NM

Sampling Date: 04/20/2017

Sampling Type: Soil

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

# Sample ID: SOUTH (H701070-18)

Project Location:

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	< 0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	<0.300	0.300	04/26/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	128	16.0	04/26/2017	ND	432	108	400	7.14	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/25/2017	ND	206	103	200	1.25	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	215	108	200	0.745	
Surrogate: 1-Chlorooctane	82.7 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	79.1 9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			X	T
-	(505) 393-232	101 East Marl	ARDINAL LA	•
	(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LABORATORIES	

(505) 39	(505) 393-2326 FAX (505) 393-2476		ANIAI VOIC
Company Name: BBC	BBC International, Inc.	BILL TO	ANALYSIS REGUES!
Project Manager: Cliff	Cliff Brunson	P.O. #:	
w		Company:	X
city: Hobbs	State: NM Zip:	Zip: 88241 Attn:	
Phone #: 575-397-6388	88 Fax #: 575-397-0397	-0397 Address:	
Project #:	Project Owner:	1XV city:	
Project Name: 5	to 41 B	State: Zip:	
Project Location:	14.335	Phone #:	
Sampler Name:	3	Fax #:	
FOR LAB USE ONLY		MATRIX PRESERV.	SAMPLING
Lab I.D.	Sample I.D.	UDGE HER: ID/BASE: E/COOL THER:	
H701070	50/03	GR WA SCO OIII SL OT AC	JAIL IIME
n	20	X -	19 729 × × 621 6/4
41	10 6	X	1.19 3.15 >> >>
νη	2020	*	100 100
76	9	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
0	50303	~	1/2/ C/2/
9	2000	42	139 7 17
PLEASE NOTE: Liability and Damages analyses. All claims including those for r	Chrimat's hability and client's exclusive remedy for any clientification of the company other cause whatsoever shall be deem	6 2	tract or tort, shall be limited to the affount paid by the client for the a pard received by Cardinali within 30 days after completion of the applicable to lose of use or loss of profits incurred by client, its subsidiarities.
service. In no event shall Cardinal be in affiliates or successors arising out of a	s hereunder by Ca	1	lt: □ Yes □ No
Relinquished By:	1-1-1	Vergetal V	
111	Ilme:	V // // // // // // // // // // // // //	

Sample Condition
Cool Intact
Yes 12 Yes
No 1 No

CHECKED BY:

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

Relinquished By:

Time:

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505)	(505) 393-2326 FAX (505) 393-2476	6	BILLTO	ANALYSIS REQUEST
	BBC International, Inc.		PO#	
DO B	ON 805	0	Company: OKY	
City: Hobbs	State: NM	Zip: 88241	Attn: Lupier	
Phone #: 575-397-6388	Fax #:	-0397	Address:	
Project #:	Project (	OXy	City:	
Project Name: 5	to x 4+13	/	State: Zip:	X/
Project Location:	14-365		Phone #:	
Sampler Name:	1/0		1	
FOR LAB USE ONLY			PRESERV. SAMPLING	57
Lab I.D.	Sample I.D.	(G)RAB OR (C) # CONTAINER: GROUNDWATI WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER: DATE	TIME
. //	503 de		X 4.70 C	X X X 35
143	101	200	×7>	19 × 3 × 1
16	1500	41	, 'Y	
81	Jest Jest	73	X .	405 17 7
PLEASE NOTE: Liability and Dames analyses. All claims including those	client's exclusive		ited to the amo	und gold by the client for the year all the completion of the applicable gold by client, its subsidiaries,
Milliages or successors arising out of or related to the performant Relinquished By:	Days:	By:	th claim is based upon any of the above stated reason	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #: REMARKS:
Relinquished By:	Date:	Received By:	1 4 70	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	rcle One)	Sample Condition Cool Intact Cool Intact Yes Yes No No	on CHECKED BY:	

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

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

Form C-141

Revised August 8, 2011

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

**Release Notification and Corrective Action** 

1220 South St. Francis Dr.

												Final Repor
Name of Co		Oxy Permiai					Casey Summers					•
		94; Houston		10		Telephone N		-8289				
Facility Nan	ne State	A&B Batter	ry		F	acility Typ	e Battery					
Surface Ow	ner State	;		Mineral C	wner				API No	. 30-025	-2333	0
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/W	est Line	County		
С	33	18S	38E							Lea Count	y, NM	
			I	atitude <u>N 32.7</u>	0557°	Longitu	de <u>W 103.1653</u>	8°				
				NAT	URE!	OF REL	EASE					
Type of Relea						Volume of				Recovered	35 bbl	
Source of Rel	lease Com	promised 3" s	teel load l	ine		Date and Hour of Occurrence O3/19/2017  Date and Hour of Discovery						
Was Immediate Notice Given?  ☑ Yes ☐ No ☐ Not Required					If YES, To Olivia Yu,	Whom? Kristen Lynch, M	/laxey Bro	own- NM	OCD			
By Whom?	Tony Agi	ilar, Oxy Per	mian			Date and H	lour 03/20/201	7 @ 7:02	am			
Was a Watero	ourse Reac	hed?				If YES, Vo	lume Impacting t	the Water	course.			
			Yes 🗵									
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*			REC	EIVED					
							ivia Yu at	3:26	pm, N	<i>l</i> lar 22,	201	7
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*								
A 3" load line	e came apar	t leaking 40 b	bls of oil.	A vacuum truck	was depl	loyed to reco	ver 35 bbls of oil	and the l	ine was re	epaired/repla	iced.	
Describe Area	a Affected a	and Cleanup A	Action Tak	en.*								
The area affer	cted is appr	oximately 30'	x 50' off	location. Remedi	iation wi	ll be comple	ted in accordance	with a re	mediation	n plan appro	ved by	NMOCD.
L haraby carti	fu that the i	nformation ai	uan nhoua	is true and comp	lata to th	a bact of my	knowledge and u	indoestone	I that sur	cuent to NIM	OCD =	alac and
				d/or file certain r								
public health	or the envir	ronment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD m	arked as "Final R	eport" do	es not rel	ieve the oper	rator of	liability
should their o	perations h	ave failed to a	idequately ICD acces	investigate and retards of a Cal41	emediate	contaminati	on that pose a thr	eat to gro	und water	r, surface wa	iter, hu	man health
federal, state,				tance of a C*141	report ac	does not relieve the operator of responsibility for compliance with any other						other
	1					OIL CONSERVATION DIVISION						
Signature:	IN	1				CAL COLLOSE TITLOTT DI VIDIOTI						
Signature:	<b>─</b> \/					Anneauad has	Environmental S	nagieliet.		17		
Printed Name	:_ Casey S	Summers		66		rppioved by	Environmental 5	pecialist:				
Title: NM	Environmer	ıtal Advisor				Approval Dat	3/22/201	7 E	xpiration	Date:		
   E-mail Addre	ss: Caev	_Summers@o	xv.com			Conditions of	Approval			1	_/	
2	-21	_ [ ]					ached direct	tive		Attached	LY	
Date.		ets If Necess	Phone:	(575) 513-828	9	223 611				1		

1RP-4650

nOY1708155887

pOY1708156219

# Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_03/20/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_\_1R-\_4650\_ has been assigned. Please refer to this case number in all future correspondence.

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_4/22/2017\_\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

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

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

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

### Jim Griswold

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