



## DELINEATION WORKPLAN

### COG – COCKATOO STATE BATTERY (Leak Date: 2/28/18)

#### RP # 2RP-4641

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This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4641.

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 entire leak area (red shade on diagram) will be excavated to a depth of 2 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.

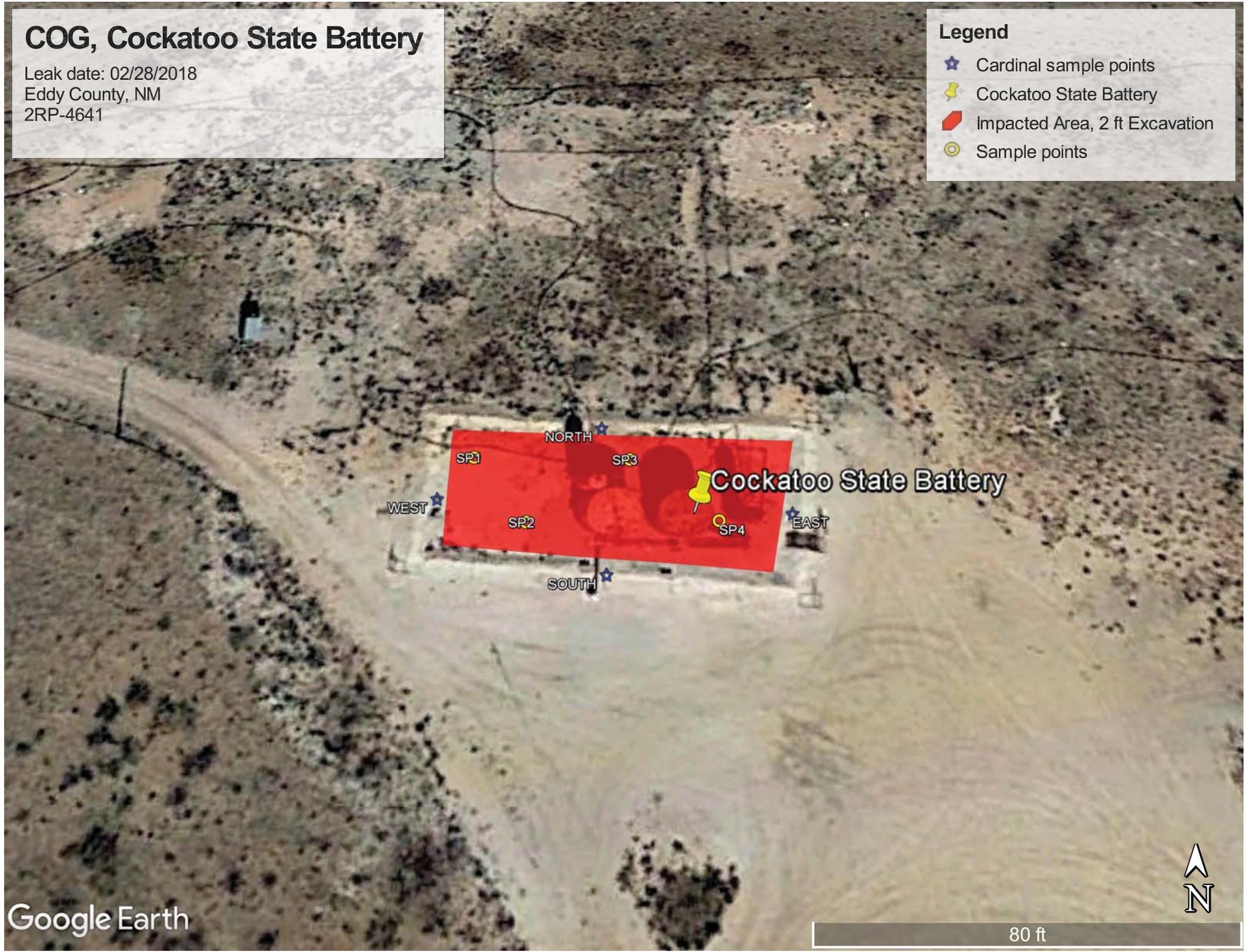
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

# COG, Cockatoo State Battery

Leak date: 02/28/2018  
Eddy County, NM  
2RP-4641

## Legend

- ☆ Cardinal sample points
- 📌 Cockatoo State Battery
- 🔴 Impacted Area, 2 ft Excavation
- 🕒 Sample points



COG, Cockatoo State Battery

Sample points

SP1, N 32.80126 W-104.16556

SP2, N 32.80122 W-104.16552

SP3, N 32.80126 W-104.16545

SP4, N 32.80122 W-104.16539

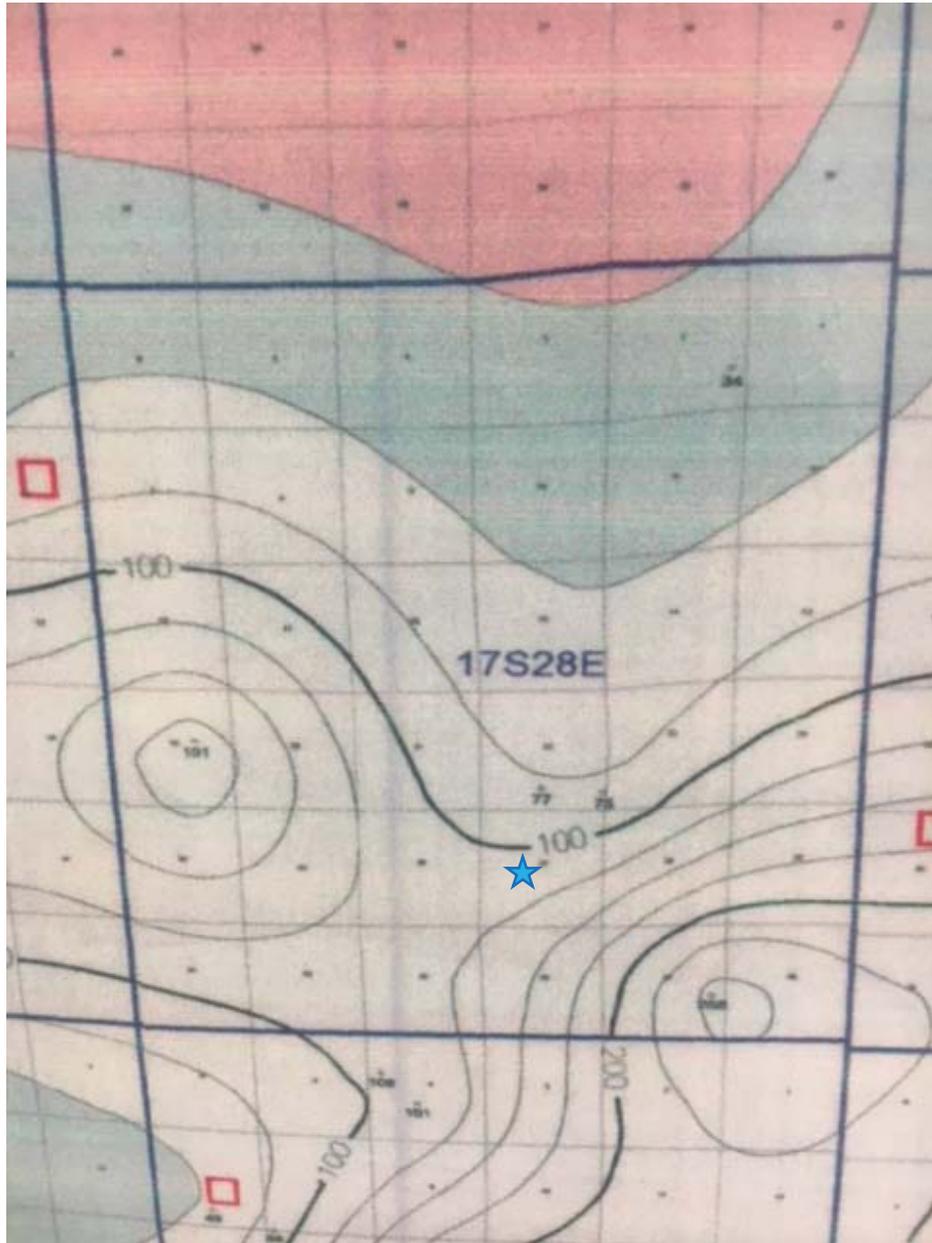
NORTH, N 32.80128 W-104.16547

SOUTH, N 32.80118 W-104.16547

EAST, N 32.80122 W-104.16533

WEST, N 32.80123 W-104.16559

**COG, Cockatoo State Battery**  
**U/L K, Section 27, T17S, R28E**  
**Groundwater: 100'-125'**





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

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

No records found.

**UTMNA83 Radius Search (in meters):**

**Easting (X):** 578072

**Northing (Y):** 3629848

**Radius:** 1700

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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.

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4/16/18 10:54 AM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

**Public Land Survey System (PLSS)**

Q64:    Q16:    Q4:   Sec:   Tws:   Rng:

**State Plane Coordinate System - NAD27**

X:  ft      Y:  ft      Zone:

**State Plane Coordinate System - NAD83**

X:  ft      Y:  ft      Zone:

**Degrees/Minutes/Seconds**

Longitude (X):      Degrees:  °      Minutes:  '      Seconds:  "  
Latitude (Y):      Degrees:  °      Minutes:  '      Seconds:  "

**UTM - NAD27**

Easting (X):  mtrs      Northing (Y):  mtrs      Zone:

**SUBMIT**

**All Conversion Results are displayed as NAD 1983 UTM Zone 13**

Easting (X):  mtrs      Northing (Y):  mtrs

**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary  
Cockatoo State Battery

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
			SURFACE	5/1/18	5/1/18	5/1/18	5/1/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		3.53	0.94	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		20.2	12.1	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		29	20.7	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		52.7	33.8	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		112	32	64	48	64
GRO	TPH 8015B		890	721	<10.0	<10.0	<10.0
DRO	TPH 8015B		29000	11300	82.1	<10.0	<10.0
EXT DRO	TPH 8015B		6490	1960	18	<10.0	<10.0

Analyte	Method	Sample ID	NORTH @
			SURFACE
			5/2/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
			SURFACE	5/1/18	5/1/18	5/1/18	5/1/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		6.27	0.41	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		33.6	4.67	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		47.6	8.28	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		87.5	13.4	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		80	48	80	16	64
GRO	TPH 8015B		1270	368	<10.0	<10.0	<10.0
DRO	TPH 8015B		32800	7420	143	<10.0	<10.0
EXT DRO	TPH 8015B		6910	1390	28.1	<10.0	<10.0

Analyte	Method	Sample ID	EAST @
			SURFACE
			5/2/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		128
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'
			SURFACE	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.085	<0.500	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.513	5.37	<0.050	0.475	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.25	19	0.0306	0.777	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.85	24.3	0.306	1.25	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		20400	48	80	160	144	128	48
GRO	TPH 8015B		<100	585	30.6	58.2	<10.0	<10.0	<10.0
DRO	TPH 8015B		16100	7990	1270	3190	11.2	<10.0	<10.0
EXT DRO	TPH 8015B		4400	1410	364	629	11.6	<10.0	<10.0

Analyte	Method	Sample ID	WEST @
			SURFACE
			5/2/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		112
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'
			SURFACE	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18	5/2/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.100	<0.200	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.142	0.565	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.05	5.68	0.058	0.206	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		2.28	15.6	<0.150	0.304	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		3.47	21.8	<0.300	0.51	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		22400	32	112	112	144	144	32
GRO	TPH 8015B		<100	452	23.8	32.5	<10.0	<10.0	<10.0
DRO	TPH 8015B		13800	7030	1330	2240	<10.0	<10.0	<10.0
EXT DRO	TPH 8015B		3550	1380	360	459	<10.0	<10.0	<10.0

Analyte	Method	Sample ID	SOUTH @
			SURFACE
			5/2/18
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

May 15, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COCKATOO STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/08/18 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ SURFACE	H801279-01	Soil	01-May-18 11:11	08-May-18 16:20
SP 1 @ 1	H801279-02	Soil	01-May-18 11:22	08-May-18 16:20
SP 1 @ 2	H801279-03	Soil	01-May-18 11:33	08-May-18 16:20
SP 1 @ 3	H801279-04	Soil	01-May-18 11:50	08-May-18 16:20
SP 1 @ 4	H801279-05	Soil	01-May-18 12:12	08-May-18 16:20
SP 2 @ SURFACE	H801279-06	Soil	01-May-18 13:33	08-May-18 16:20
SP 2 @ 1	H801279-07	Soil	01-May-18 13:55	08-May-18 16:20
SP 2 @ 2	H801279-08	Soil	01-May-18 14:16	08-May-18 16:20
SP 2 @ 3	H801279-09	Soil	01-May-18 14:33	08-May-18 16:20
SP 2 @ 4	H801279-10	Soil	01-May-18 14:45	08-May-18 16:20
SP 3 @ SURFACE	H801279-11	Soil	02-May-18 08:45	08-May-18 16:20
SP 3 @ 1	H801279-12	Soil	02-May-18 09:11	08-May-18 16:20
SP 3 @ 2	H801279-13	Soil	02-May-18 09:22	08-May-18 16:20
SP 3 @ 3	H801279-14	Soil	02-May-18 09:40	08-May-18 16:20
SP 3 @ 4	H801279-15	Soil	02-May-18 10:15	08-May-18 16:20
SP 3 @ 5	H801279-16	Soil	02-May-18 10:38	08-May-18 16:20
SP 3 @ 6	H801279-17	Soil	02-May-18 11:11	08-May-18 16:20
SP 4 @ SURFACE	H801279-18	Soil	02-May-18 11:30	08-May-18 16:20
SP 4 @ 1	H801279-19	Soil	02-May-18 11:40	08-May-18 16:20
SP 4 @ 2	H801279-20	Soil	02-May-18 11:58	08-May-18 16:20
SP 4 @ 3	H801279-21	Soil	02-May-18 13:11	08-May-18 16:20
SP 4 @ 4	H801279-22	Soil	02-May-18 13:22	08-May-18 16:20
SP 4 @ 5	H801279-23	Soil	02-May-18 13:44	08-May-18 16:20
SP 4 @ 6	H801279-24	Soil	02-May-18 14:15	08-May-18 16:20
SP N @ SURFACE	H801279-25	Soil	02-May-18 14:30	08-May-18 16:20
SP E @ SURFACE	H801279-26	Soil	02-May-18 14:40	08-May-18 16:20
SP W @ SURFACE	H801279-27	Soil	02-May-18 14:50	08-May-18 16:20

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241Project: COCKATOO STATE BATTERY  
Project Number: NONE GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397Reported:  
15-May-18 17:05

SP S @ SURFACE

H801279-28

Soil

02-May-18 15:03

08-May-18 16:20

TPH and BTEX added to work order on all samples not already run for TPH and BTEX as per Kathy with BBC on 05/14/18.  
This report, H801279R BBC, is a revised report replacing the previous report, H801279 BBC, sent on 05/14/18.

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 1 @ SURFACE**  
**H801279-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.500		0.500	mg/kg	500	8050901	MS	10-May-18	8021B	
Toluene*	3.53		0.500	mg/kg	500	8050901	MS	10-May-18	8021B	
Ethylbenzene*	20.2		0.500	mg/kg	500	8050901	MS	10-May-18	8021B	
Total Xylenes*	29.0		1.50	mg/kg	500	8050901	MS	10-May-18	8021B	
Total BTEX	52.7		3.00	mg/kg	500	8050901	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	72-148		8050901	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10*	890		100	mg/kg	10	8050902	MS	10-May-18	8015B	
DRO >C10-C28*	29000		100	mg/kg	10	8050902	MS	10-May-18	8015B	
EXT DRO >C28-C36	6490		100	mg/kg	10	8050902	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane			213 %	41-142		8050902	MS	10-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			506 %	37.6-147		8050902	MS	10-May-18	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 1 @ 1**  
**H801279-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.200		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Toluene*</b>	<b>0.940</b>		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Ethylbenzene*</b>	<b>12.1</b>		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>20.7</b>		0.600	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>33.8</b>		1.20	mg/kg	200	8050901	MS	10-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			147 %	72-148		8050901	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>721</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11300</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	QM-07, QR-03
<b>EXT DRO &gt;C28-C36</b>	<b>1960</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			189 %	41-142		8051002	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			204 %	37.6-147		8051002	MS	10-May-18	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 1 @ 2**  
**H801279-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %		72-148	8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>82.1</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>18.0</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.9 %		41-142	8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		37.6-147	8051501	MS	15-May-18	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 1 @ 3**  
**H801279-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			92.0 %	41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			87.9 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 1 @ 4**  
**H801279-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			91.2 %	41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			86.9 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 2 @ SURFACE**  
**H801279-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.200		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Toluene*</b>	<b>6.27</b>		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Ethylbenzene*</b>	<b>33.6</b>		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>47.6</b>		0.600	mg/kg	200	8050901	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>87.5</b>		1.20	mg/kg	200	8050901	MS	10-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			140 %	72-148		8050901	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

<b>GRO C6-C10*</b>	<b>1270</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>32800</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>6910</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			256 %	41-142		8051002	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			2130 %	37.6-147		8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 2 @ 1**  
**H801279-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.200		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Toluene*</b>	<b>0.410</b>		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Ethylbenzene*</b>	<b>4.67</b>		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>8.28</b>		0.600	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>13.4</b>		1.20	mg/kg	200	8051003	MS	10-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %	72-148		8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

<b>GRO C6-C10*</b>	<b>368</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7420</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1390</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			141 %	41-142		8051002	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			175 %	37.6-147		8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 2 @ 2**  
**H801279-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>143</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>28.1</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.1 %	41-142		8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 2 @ 3**  
**H801279-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			90.3 %	41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			92.9 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 2 @ 4**  
**H801279-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			88.9 %	41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			92.9 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ SURFACE**  
**H801279-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>20400</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051003	MS	11-May-18	8021B	
<b>Toluene*</b>	<b>0.085</b>		0.050	mg/kg	50	8051003	MS	11-May-18	8021B	
<b>Ethylbenzene*</b>	<b>0.513</b>		0.050	mg/kg	50	8051003	MS	11-May-18	8021B	
<b>Total Xylenes*</b>	<b>1.25</b>		0.150	mg/kg	50	8051003	MS	11-May-18	8021B	
<b>Total BTEX</b>	<b>1.85</b>		0.300	mg/kg	50	8051003	MS	11-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			116 %	72-148		8051003	MS	11-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10*	<100		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>16100</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4400</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.0 %	41-142		8051002	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			340 %	37.6-147		8051002	MS	10-May-18	8015B	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 1**  
**H801279-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.500		0.500	mg/kg	500	8051003	MS	10-May-18	8021B	
Toluene*	<0.500		0.500	mg/kg	500	8051003	MS	10-May-18	8021B	
Ethylbenzene*	<b>5.37</b>		0.500	mg/kg	500	8051003	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>19.0</b>		1.50	mg/kg	500	8051003	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>24.3</b>		3.00	mg/kg	500	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 122 % 72-148 8051003 MS 10-May-18 8021B

**Petroleum Hydrocarbons by GC FID**
**S-06**

<b>GRO C6-C10*</b>	<b>585</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7990</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1410</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane 158 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 177 % 37.6-147 8051002 MS 10-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 2**  
**H801279-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total Xylenes*</b>	<b>0.306</b>		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total BTEX</b>	<b>0.306</b>		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-04**

<b>GRO C6-C10*</b>	<b>30.6</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1270</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>364</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.4 %	41-142		8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			184 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 3**
**H801279-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Ethylbenzene*</b>	<b>0.475</b>		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total Xylenes*</b>	<b>0.777</b>		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total BTEX</b>	<b>1.25</b>		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			131 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-04**

<b>GRO C6-C10*</b>	<b>58.2</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>3190</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>629</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			114 %	41-142		8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			158 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 4**  
**H801279-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>144</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %		72-148	8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>11.2</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>11.6</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.8 %		41-142	8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.4 %		37.6-147	8051501	MS	15-May-18	8015B	
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 Hobbs NM, 88241

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 5**  
**H801279-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		72-148	8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			89.7 %		41-142	8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			94.5 %		37.6-147	8051501	MS	15-May-18	8015B	
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 Hobbs NM, 88241

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 3 @ 6**  
**H801279-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			91.0 %	41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			91.2 %	37.6-147		8051501	MS	15-May-18	8015B	
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 Hobbs NM, 88241

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ SURFACE**  
**H801279-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>22400</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.100		0.100	mg/kg	100	8051003	MS	10-May-18	8021B	
<b>Toluene*</b>	<b>0.142</b>		0.100	mg/kg	100	8051003	MS	10-May-18	8021B	
<b>Ethylbenzene*</b>	<b>1.05</b>		0.100	mg/kg	100	8051003	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>2.28</b>		0.300	mg/kg	100	8051003	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>3.47</b>		0.600	mg/kg	100	8051003	MS	10-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		72-148	8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10*	<100		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13800</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>3550</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.0 %		41-142	8051002	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			312 %		37.6-147	8051002	MS	10-May-18	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 1**  
**H801279-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	8051006	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.200		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Toluene*</b>	<b>0.565</b>		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Ethylbenzene*</b>	<b>5.68</b>		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Total Xylenes*</b>	<b>15.6</b>		0.600	mg/kg	200	8051003	MS	10-May-18	8021B	
<b>Total BTEX</b>	<b>21.8</b>		1.20	mg/kg	200	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 134 % 72-148 8051003 MS 10-May-18 8021B

**Petroleum Hydrocarbons by GC FID**
**S-06**

<b>GRO C6-C10*</b>	<b>452</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7030</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>1380</b>		100	mg/kg	10	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane 139 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 169 % 37.6-147 8051002 MS 10-May-18 8015B

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 2**  
**H801279-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Ethylbenzene*</b>	<b>0.058</b>		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-04**

<b>GRO C6-C10*</b>	<b>23.8</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1330</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>360</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.9 %	41-142		8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			197 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 3**  
**H801279-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

<b>Chloride</b>	<b>112</b>		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Ethylbenzene*</b>	<b>0.206</b>		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total Xylenes*</b>	<b>0.304</b>		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
<b>Total BTEX</b>	<b>0.510</b>		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			126 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**
**S-04**

<b>GRO C6-C10*</b>	<b>32.5</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>2240</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>459</b>		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	41-142		8051501	MS	15-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			259 %	37.6-147		8051501	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 4**  
**H801279-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			79.8 %	41-142		8051503	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			69.9 %	37.6-147		8051503	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 5**  
**H801279-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	72-148		8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			89.5 %	41-142		8051503	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			86.6 %	37.6-147		8051503	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP 4 @ 6**  
**H801279-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		72-148	8051408	MS	14-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051503	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			87.0 %		41-142	8051503	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			82.0 %		37.6-147	8051503	MS	15-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP N @ SURFACE**
**H801279-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051003	MS	10-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			115 %		72-148	8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane			79.1 %		41-142	8051002	MS	10-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			75.0 %		37.6-147	8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SPE @ SURFACE**
**H801279-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051003	MS	10-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %		72-148	8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane			78.5 %		41-142	8051002	MS	10-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			72.8 %		37.6-147	8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SP W @ SURFACE**
**H801279-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051003	MS	10-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	72-148		8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane			76.1 %	41-142		8051002	MS	10-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			67.9 %	37.6-147		8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**SPS @ SURFACE**  
**H801279-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories**
**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	8051007	AC	10-May-18	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8051003	MS	10-May-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8051003	MS	10-May-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		72-148	8051003	MS	10-May-18	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8051002	MS	10-May-18	8015B	

Surrogate: 1-Chlorooctane			71.0 %		41-142	8051002	MS	10-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			65.6 %		37.6-147	8051002	MS	10-May-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8051006 - 1:4 DI Water</b>										
<b>Blank (8051006-BLK1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	ND	16.0	mg/kg							
<b>LCS (8051006-BS1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (8051006-BSD1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
<b>Batch 8051007 - 1:4 DI Water</b>										
<b>Blank (8051007-BLK1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	ND	16.0	mg/kg							
<b>LCS (8051007-BS1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	432	16.0	mg/kg	400		108	80-120			
<b>LCS Dup (8051007-BSD1)</b>										
Prepared & Analyzed: 10-May-18										
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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 P.O. Box 805  
 Hobbs NM, 88241

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8050901 - Volatiles**
**Blank (8050901-BLK1)**

Prepared &amp; Analyzed: 09-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.102</i>		<i>mg/kg</i>	<i>0.100</i>		<i>102</i>	<i>72-148</i>			

**LCS (8050901-BS1)**

Prepared &amp; Analyzed: 09-May-18

Benzene	1.71	0.050	mg/kg	2.00		85.6	79.5-124			
Toluene	1.78	0.050	mg/kg	2.00		88.8	75.5-127			
Ethylbenzene	1.79	0.050	mg/kg	2.00		89.3	77.7-125			
Total Xylenes	5.51	0.150	mg/kg	6.00		91.9	70.9-124			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0996</i>		<i>mg/kg</i>	<i>0.100</i>		<i>99.6</i>	<i>72-148</i>			

**LCS Dup (8050901-BSD1)**

Prepared &amp; Analyzed: 09-May-18

Benzene	1.69	0.050	mg/kg	2.00		84.4	79.5-124	1.44	6.5	
Toluene	1.75	0.050	mg/kg	2.00		87.6	75.5-127	1.39	7.02	
Ethylbenzene	1.77	0.050	mg/kg	2.00		88.6	77.7-125	0.779	7.83	
Total Xylenes	5.48	0.150	mg/kg	6.00		91.4	70.9-124	0.560	7.78	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0998</i>		<i>mg/kg</i>	<i>0.100</i>		<i>99.8</i>	<i>72-148</i>			

**Batch 8051003 - Volatiles**
**Blank (8051003-BLK1)**

Prepared &amp; Analyzed: 10-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.101</i>		<i>mg/kg</i>	<i>0.100</i>		<i>101</i>	<i>72-148</i>			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8051003 - Volatiles**
**LCS (8051003-BS1)**

Prepared &amp; Analyzed: 10-May-18

Benzene	1.70	0.050	mg/kg	2.00		85.0	79.5-124			
Toluene	1.82	0.050	mg/kg	2.00		90.9	75.5-127			
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.5	77.7-125			
Total Xylenes	5.65	0.150	mg/kg	6.00		94.1	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.100		mg/kg	0.100		100	72-148			

**LCS Dup (8051003-BSD1)**

Prepared &amp; Analyzed: 10-May-18

Benzene	1.75	0.050	mg/kg	2.00		87.5	79.5-124	2.95	6.5	
Toluene	1.85	0.050	mg/kg	2.00		92.4	75.5-127	1.62	7.02	
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.8	77.7-125	1.51	7.83	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.3	70.9-124	1.21	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.100		mg/kg	0.100		100	72-148			

**Batch 8051408 - Volatiles**
**Blank (8051408-BLK1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

**LCS (8051408-BS1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	1.79	0.050	mg/kg	2.00		89.4	79.5-124			
Toluene	1.90	0.050	mg/kg	2.00		94.8	75.5-127			
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.0	77.7-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0988		mg/kg	0.100		98.8	72-148			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8051408 - Volatiles**
**LCS Dup (8051408-BSD1)**

Prepared &amp; Analyzed: 14-May-18

Benzene	1.73	0.050	mg/kg	2.00		86.7	79.5-124	3.07	6.5	
Toluene	1.85	0.050	mg/kg	2.00		92.5	75.5-127	2.51	7.02	
Ethylbenzene	1.88	0.050	mg/kg	2.00		93.8	77.7-125	1.35	7.83	
Total Xylenes	5.84	0.150	mg/kg	6.00		97.3	70.9-124	0.664	7.78	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.101</i>		mg/kg	<i>0.100</i>		<i>101</i>	<i>72-148</i>			

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 P.O. Box 805  
 Hobbs NM, 88241

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Petroleum Hydrocarbons by GC FID - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8050902 - General Prep - Organics**
**Blank (8050902-BLK1)**

Prepared &amp; Analyzed: 09-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	41-142			
Surrogate: 1-Chlorooctadecane	48.4		mg/kg	50.0		96.7	37.6-147			

**LCS (8050902-BS1)**

Prepared &amp; Analyzed: 09-May-18

GRO C6-C10	189	10.0	mg/kg	200		94.4	76.5-133			
DRO >C10-C28	200	10.0	mg/kg	200		100	72.9-138			
Total TPH C6-C28	389	10.0	mg/kg	400		97.2	78-132			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	41-142			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	37.6-147			

**LCS Dup (8050902-BSD1)**

Prepared &amp; Analyzed: 09-May-18

GRO C6-C10	188	10.0	mg/kg	200		94.1	76.5-133	0.276	20.6	
DRO >C10-C28	178	10.0	mg/kg	200		89.2	72.9-138	11.5	20.6	
Total TPH C6-C28	367	10.0	mg/kg	400		91.7	78-132	5.88	18	
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0		97.9	41-142			
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		96.0	37.6-147			

**Batch 8051002 - General Prep - Organics**
**Blank (8051002-BLK1)**

Prepared &amp; Analyzed: 10-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		92.9	41-142			
Surrogate: 1-Chlorooctadecane	43.1		mg/kg	50.0		86.2	37.6-147			

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Petroleum Hydrocarbons by GC FID - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8051002 - General Prep - Organics**
**LCS (8051002-BS1)**

Prepared &amp; Analyzed: 10-May-18

GRO C6-C10	183	10.0	mg/kg	200		91.6	76.5-133			
DRO >C10-C28	194	10.0	mg/kg	200		96.9	72.9-138			
Total TPH C6-C28	377	10.0	mg/kg	400		94.2	78-132			
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	41-142			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.5	37.6-147			

**LCS Dup (8051002-BS1)**

Prepared &amp; Analyzed: 10-May-18

GRO C6-C10	190	10.0	mg/kg	200		95.1	76.5-133	3.79	20.6	
DRO >C10-C28	202	10.0	mg/kg	200		101	72.9-138	4.28	20.6	
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	78-132	4.04	18	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		99.9	41-142			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.7	37.6-147			

**Batch 8051501 - General Prep - Organics**
**Blank (8051501-BLK1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0		107	41-142			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	37.6-147			

**LCS (8051501-BS1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	207	10.0	mg/kg	200		104	76.5-133			
DRO >C10-C28	211	10.0	mg/kg	200		106	72.9-138			
Total TPH C6-C28	419	10.0	mg/kg	400		105	78-132			
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	41-142			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	37.6-147			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Project: COCKATOO STATE BATTERY  
 Project Number: NONE GIVEN  
 Project Manager: Cliff Brunson  
 Fax To: (575) 397-0397

 Reported:  
 15-May-18 17:05

**Petroleum Hydrocarbons by GC FID - Quality Control**  
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 8051501 - General Prep - Organics**
**LCS Dup (8051501-BSD1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	216	10.0	mg/kg	200	108	76.5-133	4.03	20.6		
DRO >C10-C28	225	10.0	mg/kg	200	112	72.9-138	6.21	20.6		
Total TPH C6-C28	441	10.0	mg/kg	400	110	78-132	5.13	18		
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0	112	41-142				
Surrogate: 1-Chlorooctadecane	59.8		mg/kg	50.0	120	37.6-147				

**Batch 8051503 - General Prep - Organics**
**Blank (8051503-BLK1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0	103	41-142				
Surrogate: 1-Chlorooctadecane	53.0		mg/kg	50.0	106	37.6-147				

**LCS (8051503-BS1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	214	10.0	mg/kg	200	107	76.5-133				
DRO >C10-C28	212	10.0	mg/kg	200	106	72.9-138				
Total TPH C6-C28	426	10.0	mg/kg	400	106	78-132				
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0	107	41-142				
Surrogate: 1-Chlorooctadecane	59.2		mg/kg	50.0	118	37.6-147				

**LCS Dup (8051503-BSD1)**

Prepared &amp; Analyzed: 15-May-18

GRO C6-C10	174	10.0	mg/kg	200	87.0	76.5-133	20.4	20.6		
DRO >C10-C28	181	10.0	mg/kg	200	90.7	72.9-138	15.7	20.6		
Total TPH C6-C28	355	10.0	mg/kg	400	88.9	78-132	18.1	18		QR-02
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0	93.8	41-142				
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0	91.1	37.6-147				

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Project: COCKATOO STATE BATTERY  
Project Number: NONE GIVEN  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
15-May-18 17:05

---

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- 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



---

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTOMER AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>														
Project Manager: Cliff Brunson		P.O. #:																
Address: P.O. Box 805		Company: <i>COG</i>																
City: Hobbs State: NM Zip: 88241		Attn: <i>Haskelle</i>																
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																
Project #: Project Owner: <i>COG</i>		City:																
Project Name: <i>COG Katoo St Battery</i>		State: Zip:																
Project Location:		Phone #:																
Sampler Name: <i>Jeff Ornelas</i>		Fax #:																
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.		SAMPLING		CL	BTEX	TPH Ext	Other
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME				
	<i>H80127A</i>																	
	<i>1</i>	<i>SP 1 @ Sur</i>	<i>5</i>				<input checked="" type="checkbox"/>						<i>5-8-18</i>	<i>11:11</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>2</i>	<i>SP 1 @ 1</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>11:22</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>3</i>	<i>SP 1 @ 2</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>11:33</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>4</i>	<i>SP 1 @ 3</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>11:50</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>5</i>	<i>SP 1 @ 4</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>12:12</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>6</i>	<i>SP 2 @ Sur</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>1:33</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>7</i>	<i>SP 2 @ 1</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>1:55</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>8</i>	<i>SP 2 @ 2</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>2:16</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>9</i>	<i>SP 2 @ 3</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>2:33</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>10</i>	<i>SP 2 @ 4</i>	<i>5</i>				<input checked="" type="checkbox"/>							<i>2:45</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>5/8/18</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <i>5:00p</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By: <i>Jodi Henson</i>	Date: <i>5-8-18</i>	Received By: <i>Jodi Henson</i>	REMARKS:
	Time: <i>4:20</i>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>JH</i>	
Sampler - UPS - Bus - Other: <i>4.0° / 3.95°</i>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		

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

*Added TPH & BTEX 5/14/18 Ruda*

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																																
Project Manager: Cliff Brunson		P.O. #:																																		
Address: P.O. Box 805		Company: <i>COG</i>																																		
City: Hobbs State: NM Zip: 88241		Attn: <i>H. Sible</i>																																		
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																																		
Project #: Project Owner: <i>COG</i>		City:																																		
Project Name: <i>COC Rator</i>		State: Zip:																																		
Project Location:		Phone #:																																		
Sampler Name: <i>Jeff Arnolds</i>		Fax #:																																		
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		CL	BTE	TPE	Other	Date	Time																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:																							
	<i>H801279</i>																																			
	<i>11</i>	<i>SP 3 @ Sur</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>						<i>5-2-18</i>	<i>8:45</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>12</i>	<i>SP 3 @ 1</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>9:11</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>13</i>	<i>SP 3 @ 2</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>9:22</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>14</i>	<i>SP 3 @ 3</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>9:40</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>15</i>	<i>SP 3 @ 4</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>10:15</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>16</i>	<i>SP 3 @ 5</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>10:38</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>17</i>	<i>SP 3 @ 6</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>11:11</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>18</i>	<i>SP 4 @ Sur</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>11:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>19</i>	<i>SP 4 @ 1</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>11:40</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															
	<i>20</i>	<i>SP 4 @ 2</i>	<i>5</i>	<i>1</i>			<i>✓</i>				<i>✓</i>							<i>11:58</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>															

*Added TPE + BTE - Cash*

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Relinquished By: <i>Jeff Arnolds</i>	Date: <i>5/2/18</i>	Received By: <i>Heather Sneyd</i>
	Time: <i>5:00pm</i>	
Relinquished By: <i>Heather Sneyd</i>	Date: <i>5-8-18</i>	Received By: <i>Jodi Henson</i>
	Time: <i>9:20</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: <i>4.0¢ / 3.95¢</i>	Cool Intact	
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

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

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: Cliff Brunson		P.O. #:																									
Address: P.O. Box 805		Company: <i>COG</i>																									
City: Hobbs State: NM Zip: 88241		Attn: <i>Isabel</i>																									
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																									
Project #: Project Owner: <i>COG</i>		City:																									
Project Name: <i>Cochato St. Battery</i>		State: Zip:																									
Project Location:		Phone #:																									
Sampler Name: <i>Jeff Ornelas</i>		Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTPA	TPH Ext										
	<i>H801279</i>																										
	<i>21</i>	<i>SP 4 @ 3</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>		<i>5-7-18</i>	<i>1:11</i>	<i>✓</i>												
	<i>22</i>	<i>SP 4 @ 4</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>1:22</i>	<i>✓</i>												
	<i>23</i>	<i>SP 4 @ 5</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>1:44</i>	<i>✓</i>												
	<i>24</i>	<i>SP 4 @ 6</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>2:15</i>	<i>✓</i>												
	<i>25</i>	<i>SP N @ Sur</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>2:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>										
	<i>26</i>	<i>SP E @ Sur</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>2:40</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>										
	<i>27</i>	<i>SP W @ Sur</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>2:50</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>										
	<i>28</i>	<i>SP S @ Sur</i>	<i>5 1</i>			<i>✓</i>					<i>✓</i>			<i>3:03</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>										
		<i>Stacie Honey 1/5</i>																									
		<i>5-8-18</i>																									

Added TPH Ext + BTEX - Fresh

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>5/8/18</i>	Received By: <i>Stacie Honey 1/5</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>5:45</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Stacie Honey 1/5</i>	Date: <i>5-8-18</i>	Received By: <i>Jodi Benson</i>	REMARKS:	
	Time: <i>4:20</i>			
Delivered By: (Circle One) <i>UPS</i>	Sample Condition: <i>4.0°/3.95°</i>	CHECKED BY: <i>JH</i>		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		

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

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

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 02 2018

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

Form C-141  
Revised April 3, 2017

PAB1806432957  
NAB1806433315

Release Notification and Corrective Action

OPERATOR

Initial Report  Final Report

Name of Company: <b>COG Operating, LLC (OGRID# 229137)</b>	Contact: <b>Robert McNeill</b>
Address: <b>600 West Illinois Avenue, Midland TX 79701</b>	Telephone No.: <b>432-683-7443</b>
Facility Name: <b>Cockatoo State Battery</b>	Facility Type: <b>Central Tank Battery</b>

Surface Owner: State	Mineral Owner: State	API No.:
----------------------	----------------------	----------

LOCATION OF RELEASE

Unit Letter K	Section 27	Township 17S	Range 28E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude: 32.801230 Longitude: -104.165441 NAD83

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 21bbbls	Volume Recovered: 20bbbls
Source of Release: Tank	Date and Hour of Occurrence: 2/28/2018 10:30am	Date and Hour of Discovery: 2/28/2018 10:30am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.*		
A third party truck driver equalized the tanks at this battery due to human error. The manway on the western tank was not sealed because it was being prepared for removal. When the tanks equalized the fluid escaped from the manway of the western tank.		
Describe Area Affected and Cleanup Action Taken.*		
All of the fluid remained inside of the unlined battery. A vacuum truck was dispatched to recover all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: <i>Sheldon Hitchcock</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Sheldon L. Hitchcock	Approved by Environmental Specialist: Signed By: <i>[Signature]</i>	
Title: HSE Coordinator	Approval Date: 3/5/18	Expiration Date: N/A
E-mail Address: slhitchcock@concho.com	Conditions of Approval: <i>See attached</i>	Attached <input checked="" type="checkbox"/> <i>2RP-4641</i>
Date: 3/2/2018	Phone: 575-746-2010	

\* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 3/2/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2BP-4641 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 division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 4/2/2018. 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](mailto:jim.griswold@state.nm.us)

## Bratcher, Mike, EMNRD

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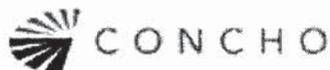
**From:** Sheldon Hitchcock <SLHitchcock@concho.com>  
**Sent:** Friday, March 2, 2018 2:35 PM  
**To:** Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD  
**Cc:** Robert McNeill; Rebecca Haskell; Dakota Neel; Christopher Gray; DeAnn Grant  
**Subject:** (C-141 Initial) Cockatoo State Battery 2-28-2018  
**Attachments:** (C-141 Initial) Cockatoo State Battery 2-28-2018.pdf

Ms. Weaver/Ms. Honea,

Please find the attached C-141 for your consideration. If you have any questions or concerns please let me know.

Thank you,

Sheldon L. Hitchcock  
HSE Coordinator  
COG Operating LLC  
2407 Pecos Avenue | Artesia, NM 88210  
Cell: 575-703-6475 | Office: 575-746-2010  
[slhitchcock@concho.com](mailto:slhitchcock@concho.com)



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