



DELINEATION WORKPLAN

COG – COCKATOO STATE BATTERY

(Leak Date: 2/28/18)

RP # 2RP-4641

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

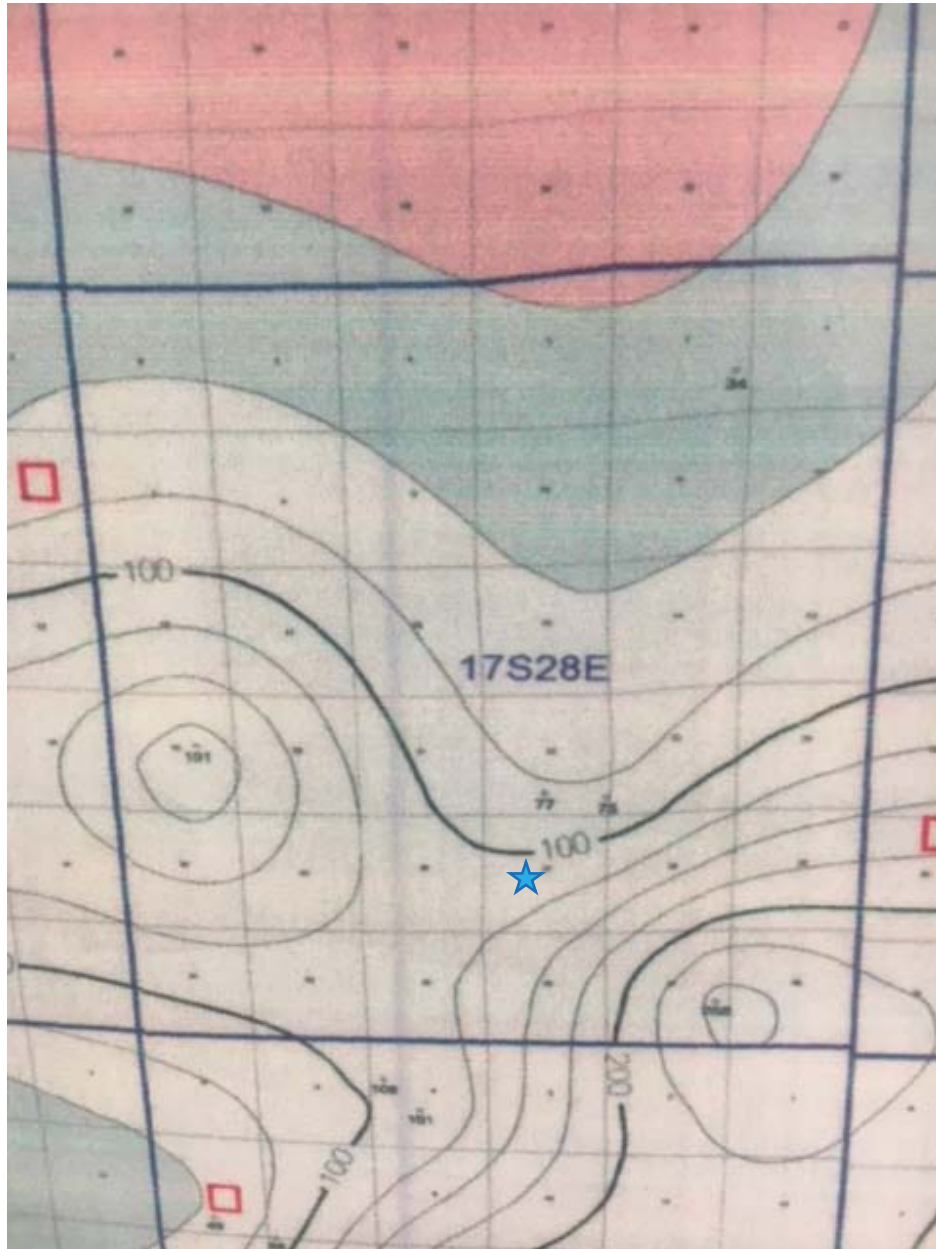
SOUTH, N 32.80118 W-104.16547

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'





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

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 578072

Northing (Y): 3629848

Radius: 1700

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

4/16/18 10:54 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

☒ Q64: Q16: NE Q4: SW Sec: 27 Tws: 17S Rng: 28E

State Plane Coordinate System - NAD27

☐ X: 0 ft Y: 0 ft Zone:

State Plane Coordinate System - NAD83

☐ X: 0 ft Y: 0 ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

UTM - NAD27

☐ Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**Easting (X): 578072.0 mtrsNorthing (Y): 3629848.0 mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary
Cockatoo State Battery

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	5/1/18	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	SM4500Cl-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

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	5/1/18	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	SM4500Cl-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

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	5/2/18	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	SM4500Cl-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

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	5/2/18	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	SM4500Cl-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

		Sample ID	NORTH @ SURFACE
Analyte	Method	Date	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	SM4500Cl-B		80
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

		Sample ID	EAST @ SURFACE
Analyte	Method	Date	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	SM4500Cl-B		128
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

		Sample ID	WEST @ SURFACE
Analyte	Method	Date	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	SM4500Cl-B		112
GRO	TPH 8015B		<10.0
DRO	TPH 8015B		<10.0
EXT DRO	TPH 8015B		<10.0

		Sample ID	SOUTH @ SURFACE
Analyte	Method	Date	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	SM4500Cl-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/qa/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.

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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

Chloride	112		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	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	

<i>Surrogate: 1-Chlorooctane</i>			213 %	41-142		8050902	MS	10-May-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			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

Chloride	32.0		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*	<0.200		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Toluene*	0.940		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Ethylbenzene*	12.1		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Total Xylenes*	20.7		0.600	mg/kg	200	8050901	MS	10-May-18	8021B	
Total BTEX	33.8		1.20	mg/kg	200	8050901	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 147 % 72-148 8050901 MS 10-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-06

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

Surrogate: 1-Chlorooctane 189 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 204 % 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 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

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)			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*	82.1		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	18.0		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			91.9 %		41-142	8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		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 @ 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

Chloride	80.0		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*	<0.200		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Toluene*	6.27		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Ethylbenzene*	33.6		0.200	mg/kg	200	8050901	MS	10-May-18	8021B	
Total Xylenes*	47.6		0.600	mg/kg	200	8050901	MS	10-May-18	8021B	
Total BTEX	87.5		1.20	mg/kg	200	8050901	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 140 % 72-148 8050901 MS 10-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-06

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

Surrogate: 1-Chlorooctane 256 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 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

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

Surrogate: 4-Bromofluorobenzene (PID) 121 % 72-148 8051003 MS 10-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-06

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

Surrogate: 1-Chlorooctane 141 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 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

Chloride	80.0		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*	143		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	28.1		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			98.1 %		41-142	8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			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

Chloride	20400		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	
Toluene*	0.085		0.050	mg/kg	50	8051003	MS	11-May-18	8021B	
Ethylbenzene*	0.513		0.050	mg/kg	50	8051003	MS	11-May-18	8021B	
Total Xylenes*	1.25		0.150	mg/kg	50	8051003	MS	11-May-18	8021B	
Total BTEX	1.85		0.300	mg/kg	50	8051003	MS	11-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 72-148 8051003 MS 11-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-06

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

Surrogate: 1-Chlorooctane 85.0 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 340 % 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 @ 1 H801279-12 (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*	<0.500		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*	5.37		0.500	mg/kg	500	8051003	MS	10-May-18	8021B	
Total Xylenes*	19.0		1.50	mg/kg	500	8051003	MS	10-May-18	8021B	
Total BTEX	24.3		3.00	mg/kg	500	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	122 %		72-148		8051003	MS	10-May-18	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

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

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

Chloride	80.0		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*	0.306		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	0.306		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 72-148 8051408 MS 14-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-04

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

Surrogate: 1-Chlorooctane 97.4 % 41-142 8051501 MS 15-May-18 8015B

Surrogate: 1-Chlorooctadecane 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

Chloride	160		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*	0.475		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Total Xylenes*	0.777		0.150	mg/kg	50	8051408	MS	14-May-18	8021B	
Total BTEX	1.25		0.300	mg/kg	50	8051408	MS	14-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 131 % 72-148 8051408 MS 14-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-04

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

Surrogate: 1-Chlorooctane 114 % 41-142 8051501 MS 15-May-18 8015B

Surrogate: 1-Chlorooctadecane 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

Chloride	144		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*	11.2		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	
EXT DRO >C28-C36	11.6		10.0	mg/kg	1	8051501	MS	15-May-18	8015B	

Surrogate: 1-Chlorooctane			94.8 %		41-142	8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane			99.4 %		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 @ 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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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 @ 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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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 @ SURFACE

H801279-18 (Soil)

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

Inorganic Compounds

Chloride	22400		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	
Toluene*	0.142		0.100	mg/kg	100	8051003	MS	10-May-18	8021B	
Ethylbenzene*	1.05		0.100	mg/kg	100	8051003	MS	10-May-18	8021B	
Total Xylenes*	2.28		0.300	mg/kg	100	8051003	MS	10-May-18	8021B	
Total BTEX	3.47		0.600	mg/kg	100	8051003	MS	10-May-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 72-148 8051003 MS 10-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-06

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

Surrogate: 1-Chlorooctane 86.0 % 41-142 8051002 MS 10-May-18 8015B

Surrogate: 1-Chlorooctadecane 312 % 37.6-147 8051002 MS 10-May-18 8015B

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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

Chloride	32.0		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*	<0.200		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
Toluene*	0.565		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
Ethylbenzene*	5.68		0.200	mg/kg	200	8051003	MS	10-May-18	8021B	
Total Xylenes*	15.6		0.600	mg/kg	200	8051003	MS	10-May-18	8021B	
Total BTEX	21.8		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

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

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	8051408	MS	14-May-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8051408	MS	14-May-18	8021B	
Ethylbenzene*	0.058		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

S-04

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

Surrogate: 1-Chlorooctane		94.9 %		41-142		8051501	MS	15-May-18	8015B	
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Surrogate: 1-Chlorooctadecane		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

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

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148 8051408 MS 14-May-18 8021B

Petroleum Hydrocarbons by GC FID

S-04

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

Surrogate: 1-Chlorooctane 102 % 41-142 8051501 MS 15-May-18 8015B

Surrogate: 1-Chlorooctadecane 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

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

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

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

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

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

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

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

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
Batch 8051006 - 1:4 DI Water										
Blank (8051006-BLK1)				Prepared & Analyzed: 10-May-18						
Chloride	ND	16.0	mg/kg							
LCS (8051006-BS1)				Prepared & Analyzed: 10-May-18						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (8051006-BSD1)				Prepared & Analyzed: 10-May-18						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 8051007 - 1:4 DI Water										
Blank (8051007-BLK1)				Prepared & Analyzed: 10-May-18						
Chloride	ND	16.0	mg/kg							
LCS (8051007-BS1)				Prepared & Analyzed: 10-May-18						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (8051007-BSD1)				Prepared & Analyzed: 10-May-18						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

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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 8050901 - Volatiles

Blank (8050901-BLK1)

Prepared & 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							
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	72-148			

LCS (8050901-BS1)

Prepared & 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			
Surrogate: 4-Bromofluorobenzene (PID)	0.0996		mg/kg	0.100		99.6	72-148			

LCS Dup (8050901-BSD1)

Prepared & 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	
Surrogate: 4-Bromofluorobenzene (PID)	0.0998		mg/kg	0.100		99.8	72-148			

Batch 8051003 - Volatiles

Blank (8051003-BLK1)

Prepared & 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							
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

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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 8051003 - Volatiles

LCS (8051003-BS1)

Prepared & 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-BS1)

Prepared & 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 & 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 & 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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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 & 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	
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	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

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 & 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 & 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 & 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 & 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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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
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Batch 8051002 - General Prep - Organics
LCS (8051002-BS1)

Prepared & 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-BSD1)

Prepared & 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 & 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 & 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			

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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 8051501 - General Prep - Organics

LCS Dup (8051501-BSD1)

Prepared & 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 & 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 & 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 & 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

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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mainland, Hobbs, (505) 393-2326 FAX (505) 393-2476				BILL TO				ANALYSIS REQUEST											
Company Name: BBC International, Inc.				P.O. #:				<div style="position: relative; height: 100%;"> <div style="position: absolute; top: 0; right: 0; transform: rotate(90deg); transform-origin: right top;"> Added TPH & BTEX 5/14/18 BTEX TPH & Ext </div> </div>											
Project Manager: Cliff Brunson				Company: COG															
Address: P.O. Box 805				Attn: Hastelle															
City: Hobbs		State: NM Zip: 88241		Address:															
Phone #: 575-397-6388		Fax #: 575-397-0397		City:															
Project #:		Project Owner: COG		State: Zip:															
Project Name: COCKATOO ST Battery				Phone #:															
Project Location:				Fax #:															
Sampler Name: Jeff Ornelas																			

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		CL	BTEX	TPH & Ext	Other	Other	
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						DATE
H80127A																		
1	SP 1 @ Sur	5	1			✓				✓	5-8-18	11:11	✓	✓	✓			
2	SP 1 @ 1	5	1			✓				✓		11:22	✓	✓	✓			
3	SP 1 @ 2	5	1			✓				✓		11:33	✓					
4	SP 1 @ 3	5	1			✓				✓		11:50	✓					
5	SP 1 @ 4	5	1			✓				✓		12:12	✓					
6	SP 2 @ Sur	5	1			✓				✓		11:33	✓	✓	✓			
7	SP 2 @ 1	5	1			✓				✓		11:55	✓	✓	✓			
8	SP 2 @ 2	5	1			✓				✓		2:16	✓					
9	SP 2 @ 3	5	1			✓				✓		2:33	✓					
10	SP 2 @ 4	5	1			✓				✓		2:45	✓					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jeff Ornelas Date: 5/8/18 Time: 5:00		Received By: Jodi Benson Date: 5-8-18 Time: 7:20		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	
Relinquished By: Jodi Benson Date: 5-8-18 Time: 7:20		Received By: Jodi Benson Date: 5-8-18 Time: 7:20		Add'l Phone #: Add'l Fax #:	

Delivered By: (Circle One) 4.0°/3.95°		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: JA	
--	--	--	--	-----------------------	--

* 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.		P.O. #:		ANALYSIS REQUEST																
Project Manager: Cliff Brunson		Company: COG																		
Address: P.O. Box 805		Attn: H. S. S. S.																		
City: Hobbs State: NM Zip: 88241		Address:																		
Phone #: 575-397-6388 Fax #: 575-397-0397		City:																		
Project #: Project Owner: COG		State: Zip:																		
Project Name: COC Raton		Phone #:																		
Project Location:		Fax #:																		
Sampler Name: Jeff Arnolds																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CL	BTE	TPH	Ext								
H801279																				
11	SP 3 @ Sur	5	1					5-2-18	8:45	✓	✓	✓								
12	SP 3 @ 1	5	1						9:11	✓	✓	✓								
13	SP 3 @ 2	5	1						9:22	✓										
14	SP 3 @ 3	5	1						9:40	✓										
15	SP 3 @ 4	5	1						10:15	✓										
16	SP 3 @ 5	5	1						10:38	✓										
17	SP 3 @ 6	5	1						11:11	✓										
18	SP 4 @ Sur	5	1						11:30	✓	✓	✓								
19	SP 4 @ 1	5	1						11:40	✓	✓	✓								
20	SP 4 @ 2	5	1						11:58	✓										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Arnolds</i>	Date: <i>5/2/18</i>	Received By: <i>Heather Sneyd</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Heather Sneyd</i>	Date: <i>5-8-18</i>	Received By: <i>Jodi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>UPS</i>	Time: <i>9:20</i>	Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact	REMARKS:	
Sampler - UPS - Bus - Other: <i>4.0% / 3.95%</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> No <input type="checkbox"/> No		
		CHECKED BY: (Initials)		

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

† Cardinal cannot accept verbal changes. Please fax written changes to 505-333-2476

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.

Form C-141
Revised April 3, 2017

RECEIVED

PAB1806432957
NAB1806433315

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating, LLC (OGRID# 229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443
Facility Name: Cockatoo State Battery	Facility Type: Central Tank Battery
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: 21bbls	Volume Recovered: 20bbls
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: <u>Sheldon Hitchcock</u>		OIL CONSERVATION DIVISION	
Printed Name: Sheldon L. Hitchcock		Approved by Environmental Specialist: Signed By: <u>[Signature]</u>	
Title: HSE Coordinator		Approval Date: <u>3/5/18</u>	Expiration Date: <u>N/A</u>
E-mail Address: slhitchcock@concho.com		Conditions of Approval: <u>See Attached</u>	
Date: 3/2/2018 Phone: 575-746-2010		Attached <u>2RP-4641</u>	

* 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; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

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

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

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

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

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

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

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

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

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

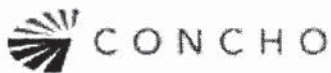
From: Sheldon Hitchcock <SLHitchcock@concho.com>
Sent: Friday, March 2, 2018 2:35 PM
To: Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD
Cc: Robert McNeill; Rebecca Haskell; Dakota Neel; Christopher Gray; DeAnn Grant
Subject: (C-141 Initial) Cockatoo State Battery 2-28-2018
Attachments: (C-141 Initial)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



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