

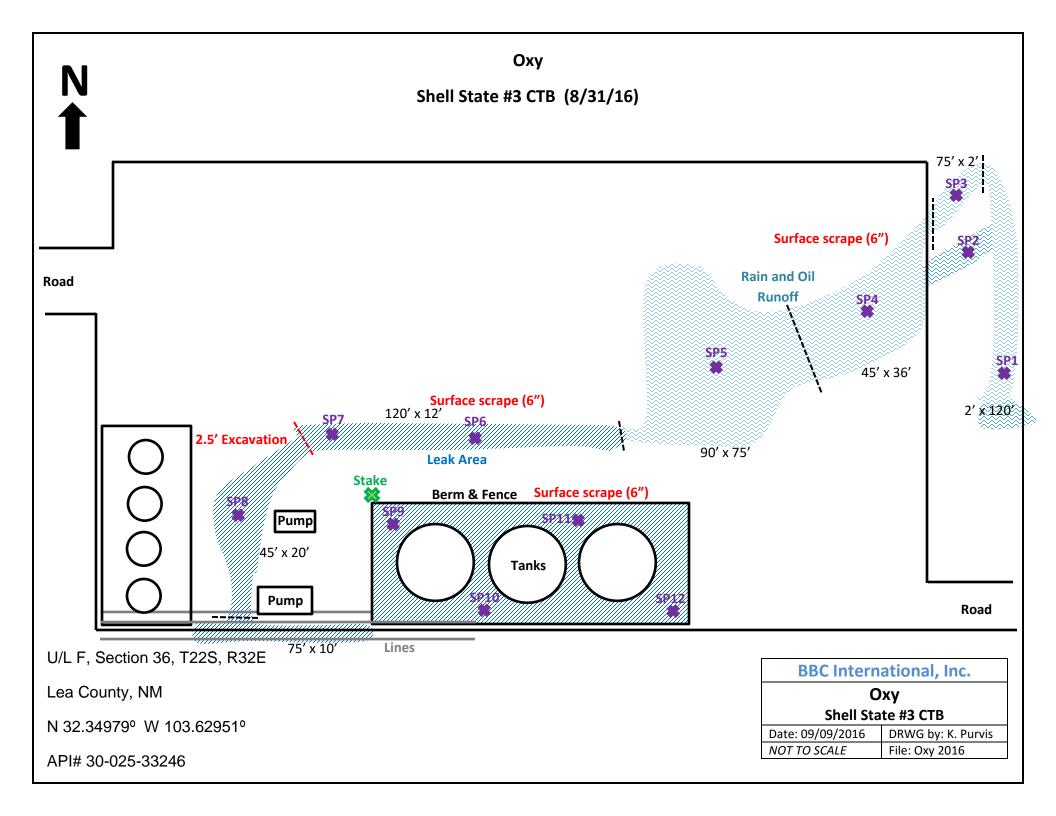
PHONE (575) 397-6388 • FAX (575) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805 E-MAIL: cbrunson@bbcinternational.com

### OXY - SHELL STATE #3 CTB (8/31/16)

### **REMEDIATION PLAN**

OXY will excavate the spill area as depicted on the following site diagram. In the area near SP1, SP2, SP3, SP4, SP5, SP6, and SP7, the excavation will be a surface scrape (6 inches). In the area near SP8, the excavation will be 2.5 feet. The entire site will then be backfilled with clean soil.

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

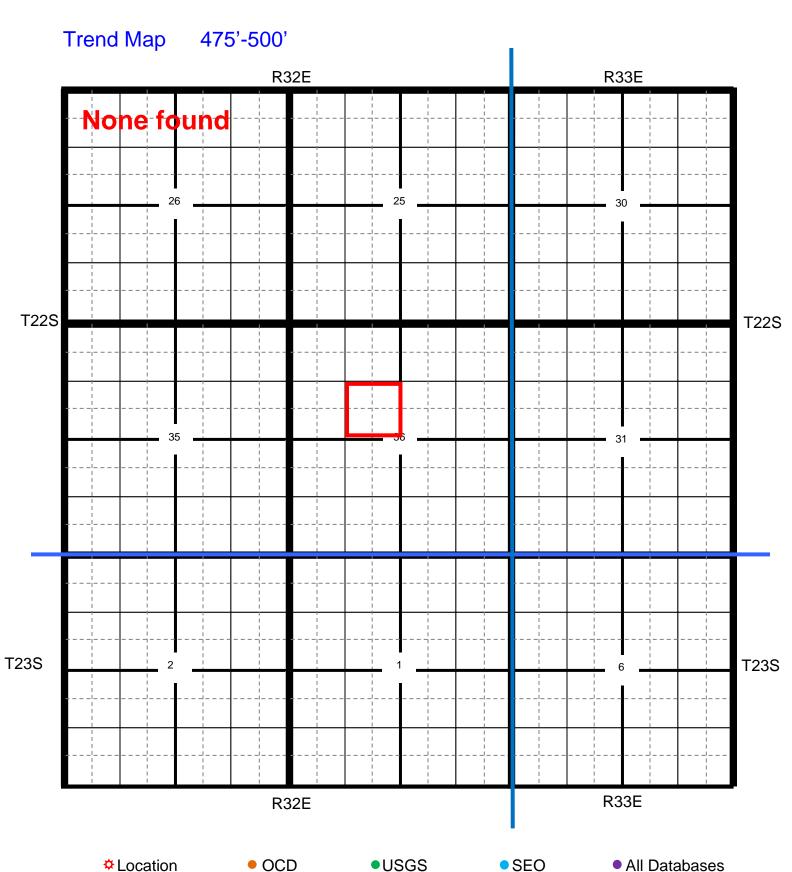




### **Groundwater Plot**

### Oxy Shell State #3 CTB

CountyUnit LetterSectionTownshipRangeLeaF3622S32E

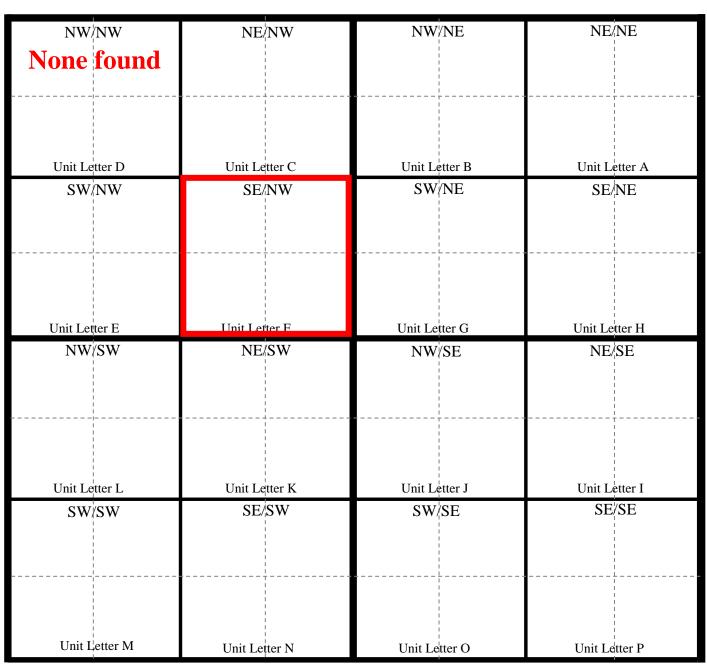


### Oxy Shell State #3 CTB

CountyUnit LetterSectionTownshipRangeLeaF3622S32E

Trend Map 457'-500'

1



3

### Laboratory Analytical Results Summary Shell State #3 CTB

		Sample	SP1 @ Surface	SP1 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.156	< 0.050
Ethylbenzene	BTEX 8021B		0.14	< 0.050
Total Xylenes	BTEX 8021B		0.551	<0.150
Total BTEX	BTEX 8021B		0.847	< 0.300
Chloride	SM4500CI-B		32	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		23900	<10.0

		Sample	SP5 @ Surface
Analyte	Method	Date	9/20/16
			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		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		14.2

		Sample	SP2 @ Surface	SP2 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.185	< 0.050
Ethylbenzene	BTEX 8021B		0.15	< 0.050
Total Xylenes	BTEX 8021B		0.59	<0.150
Total BTEX	BTEX 8021B		0.924	< 0.300
Chloride	SM4500CI-B		32	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		22700	<10.0

		Sample	SP6 @ Surface	SP6 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.144	< 0.050
Ethylbenzene	BTEX 8021B		0.075	< 0.050
Total Xylenes	BTEX 8021B		0.33	< 0.150
Total BTEX	BTEX 8021B		0.586	< 0.300
Chloride	SM4500CI-B		1390	96
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		9470	<10.0

		Sample	SP3 @ Surface	SP3 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.091	< 0.050
Ethylbenzene	BTEX 8021B		0.065	< 0.050
Total Xylenes	BTEX 8021B		0.251	<0.150
Total BTEX	BTEX 8021B		0.408	< 0.300
Chloride	SM4500CI-B		<16.0	<16.0
GRO	TPH 8015M		<200	<10.0
DRO	TPH 8015M		8000	<10.0

		Sample	SP7 @ Surface	SP7 @ 1'
Analyte	Method	Date	9/20/16	9/20/16
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		0.141	< 0.050
Ethylbenzene	BTEX 8021B		0.086	< 0.050
Total Xylenes	BTEX 8021B		0.355	< 0.150
Total BTEX	BTEX 8021B		0.582	< 0.300
Chloride	SM4500CI-B		176	<16.0
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		8100	<10.0

		Sample	SP4 @ Surface
Analyte	Method	Date	9/20/16
			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		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP8 @ Surface	SP8 @ 1'	SP8 @ 2'	SP8 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.096	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		< 0.150	< 0.150	N/A	N/A
Total BTEX	BTEX 8021B		< 0.300	< 0.300	N/A	N/A
Chloride	SM4500CI-B		480	2040	1960	32
GRO	TPH 8015M		<50.0	<10.0	N/A	N/A
DRO	TPH 8015M		1970	21.9	N/A	N/A

		Sample	SP9 @ Surface	SP9 @ 1'	SP9 @ 2'	SP9 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.091	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.111	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.278	< 0.150	N/A	N/A
Total BTEX	BTEX 8021B		0.481	< 0.300	N/A	N/A
Chloride	SM4500CI-B		16	352	992	160
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		9460	<10.0	N/A	N/A

		Sample	SP10 @ Surface	SP10 @ 1'	SP10 @ 2'	SP10 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.095	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.116	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.314	< 0.150	N/A	N/A
Total BTEX	BTEX 8021B		0.525	< 0.300	N/A	N/A
Chloride	SM4500CI-B		16	336	320	224
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		10800	12.4	N/A	N/A

		Sample	SP11 @ Surface	SP11 @ 1'	SP11 @ 2'	SP11 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.187	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.238	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.848	< 0.150	N/A	N/A
Total BTEX	BTEX 8021B		1.27	< 0.300	N/A	N/A
Chloride	SM4500CI-B		96	960	320	32
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		7630	45.2	N/A	N/A

		Sample	SP12 @ Surface	SP12 @ 1'	SP12 @ 2'	SP12 @ 3'
Analyte	Method	Date	9/21/16	9/21/16	9/21/16	9/21/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	N/A	N/A
Toluene	BTEX 8021B		0.259	< 0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		0.211	< 0.050	N/A	N/A
Total Xylenes	BTEX 8021B		0.727	< 0.150	N/A	N/A
Total BTEX	BTEX 8021B		1.2	< 0.300	N/A	N/A
Chloride	SM4500CI-B		96	384	32	256
GRO	TPH 8015M		<100	<10.0	N/A	N/A
DRO	TPH 8015M		9250	<10.0	N/A	N/A



September 28, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHELL STATE #3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/22/16 15:00.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 1 @ SURFACE (H602134-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.156	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.140	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.551	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.847	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/23/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	23900	200	09/23/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	89.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	852 9	% 28-171							

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 1 @ 1' (H602134-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/23/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/23/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	83.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	97.5	% 28-171							

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 2 @ SURFACE (H602134-03)

TEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.185	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.150	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.590	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.924	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	22700	200	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	90.0	% 35-147	7						

Surrogate: 1-Chlorooctadecane 830 % 28-171

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 2 @ 1' (H602134-04)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	85.2 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	107 9	% 28-171	,						

107 % Surrogate: 1-Chlorooctadecane 28-171

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P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 3 @ SURFACE (H602134-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.091	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.065	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.251	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.408	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/24/2016	ND	199	99.4	200	2.82	
		200	09/24/2016	ND	212	106	200	5.31	

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

295 %

28-171



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 3 @ 1' (H602134-06)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	< 0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	199	99.4	200	2.82	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	5.31	
Surrogate: 1-Chlorooctane	87.1 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 %	6 28-171							

Cardinal Laboratories \*=Accredited Analyte

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P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 4 @ SURFACE (H602134-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.7	% 35-147	7						
Surrogata: 1 Chlorocatadacana	102	0/, 28 171	i						

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 5 @ SURFACE (H602134-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	<0.050	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	<0.050	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	<0.150	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	<0.300	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	14.2	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	74.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	95.7	% 28-171							

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Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 6 @ SURFACE (H602134-09)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2016	ND	2.17	108	2.00	2.00	
Toluene*	0.144	0.050	09/26/2016	ND	2.21	110	2.00	1.60	
Ethylbenzene*	0.075	0.050	09/26/2016	ND	2.16	108	2.00	1.58	
Total Xylenes*	0.330	0.150	09/26/2016	ND	6.59	110	6.00	1.14	
Total BTEX	0.586	0.300	09/26/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	9470	50.0	09/24/2016	ND	212	106	200	0.0141	

Surrogate: 1-Chlorooctane 95.3 % 35-147
Surrogate: 1-Chlorooctadecane 442 % 28-171

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Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 6 @ 1' (H602134-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.03	% 35-147	,						
Surrogate: 1-Chlorooctadecane	98.8	% 28-171							

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Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 7 @ SURFACE (H602134-11)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.141	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.086	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.355	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.582	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	8100	50.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	82.5	% 35-147	7						

338 % 28-171 Surrogate: 1-Chlorooctadecane

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Received: 09/22/2016 Sampling Date: 09/20/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 7 @ 1' (H602134-12)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	95.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	1169	% 28-171							

Surrogate: 1-Chlorooctadecane 116 % 28-171

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Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 8 @ SURFACE (H602134-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.096	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	1970	50.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	70.3 9	% 35-147	7						

145 % 28-171 Surrogate: 1-Chlorooctadecane

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Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

### Sample ID: SP 8 @ 1' (H602134-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	09/27/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	21.9	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	82.5 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	101 %	6 28-171							

### Sample ID: SP 8 @ 2' (H602134-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	09/27/2016	ND	432	108	400	0.00	

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Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 8 @ 3' (H602134-16)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2016	ND	432	108	400	0.00	

### Sample ID: SP 9 @ SURFACE (H602134-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.091	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.111	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.278	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.481	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 107 % 73.6-140

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2016	ND	416	104	400	0.00	
PH 8015M mg/kg		/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	9460	100	09/24/2016	ND	212	106	200	0.0141	

Surrogate: 1-Chlorooctane 80.4 % 35-147
Surrogate: 1-Chlorooctadecane 376 % 28-171

Cardinal Laboratories \*=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

ma/ka

### Sample ID: SP 9 @ 1' (H602134-18)

RTFY 8021R

B1EX 8021B	mg/	kg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9 %	6 73.6-140	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	80.0 %	6 35-147							
Surrogate: 1-Chlorooctadecane	98.1 9	6 28-171							

### Sample ID: SP 9 @ 2' (H602134-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/28/2016	ND	416	104	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 9 @ 3' (H602134-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/28/2016	ND	416	104	400	0.00	

### Sample ID: SP 10 @ SURFACE (H602134-21)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.095	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.116	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.314	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	0.525	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73 6-140

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	10800	100	09/24/2016	ND	212	106	200	0.0141	

Surrogate: 1-Chlorooctane 91.5 % 35-147
Surrogate: 1-Chlorooctadecane 443 % 28-171

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Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 10 @ 1' (H602134-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	< 0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	< 0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	12.4	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	86.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	% 28-171							

### Sample ID: SP 10 @ 2' (H602134-23)

Chloride, SM4500CI-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/28/2016	ND	416	104	400	0.00	

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 10 @ 3' (H602134-24)

Chloride, SM4500CI-B	ide, SM4500Cl-B mg/kg			d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/28/2016	ND	416	104	400	0.00	

### Sample ID: SP 11 @ SURFACE (H602134-25)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.187	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.238	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.848	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	1.27	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 112 % 73.6-140

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357	
	7630	100	09/24/2016	ND	212	106	200	0.0141	

Surrogate: 1-Chlorooctane 87.9 % 35-147
Surrogate: 1-Chlorooctadecane 289 % 28-171

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 11 @ 1' (H602134-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	< 0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	< 0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	45.2	10.0	09/24/2016	ND	212	106	200	0.0141	
Surrogate: 1-Chlorooctane	88.2 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 %	6 28-171							

### Sample ID: SP 11 @ 2' (H602134-27)

Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/28/2016	ND	416	104	400	0.00	

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 11 @ 3' (H602134-28)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2016	ND	416	104	400	0.00	

### Sample ID: SP 12 @ SURFACE (H602134-29)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					A-01
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	0.259	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	0.211	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	0.727	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	1.20	0.300	09/27/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID 114 % 73.6-140

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/28/2016	ND	416	104	400	0.00		
TPH 8015M	mg	mg/kg Analyzed By: MS							S-06, A-01	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/24/2016	ND	194	97.2	200	0.357		
	9250	100	09/24/2016	ND	212	106	200	0.0141		

Surrogate: 1-Chlorooctane 93.6 % 35-147
Surrogate: 1-Chlorooctadecane 361 % 28-171

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



**NOT GIVEN** 

### Analytical Results For:

BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP 12 @ 1' (H602134-30)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/27/2016	ND	2.31	115	2.00	0.272	
Toluene*	<0.050	0.050	09/27/2016	ND	2.34	117	2.00	0.0127	
Ethylbenzene*	<0.050	0.050	09/27/2016	ND	2.24	112	2.00	0.841	
Total Xylenes*	<0.150	0.150	09/27/2016	ND	6.74	112	6.00	0.682	
Total BTEX	<0.300	0.300	09/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/28/2016	ND	416	104	400	0.00	
TDU 0045M		n	A	d Down MC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/28/2016	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/24/2016	ND	194	97.2	200	0.357	
DRO >C10-C28	<10.0	10.0	09/24/2016	ND	212	106	200	0.0141	

Surrogate: 1-Chlorooctane 83.7 % 35-147
Surrogate: 1-Chlorooctadecane 102 % 28-171

### Sample ID: SP 12 @ 2' (H602134-31)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/28/2016	ND	416	104	400	0.00	

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

Fax To: (575) 397-0397

Received: 09/22/2016 Sampling Date: 09/21/2016

Reported: 09/28/2016 Sampling Type: Soil

Project Name: SHELL STATE #3 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 12 @ 3' (H602134-32)

Chloride, SM4500CI-B	mg/	kg	Analyze	а ву: нм					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/28/2016	ND	416	104	400	0.00	

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### **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.

A-01 Sample jar contained headspace. Results may be biased low.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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(505) 393-2326 FAX (505) 393-2476	101 East Marland, Hobbs, NM 88240	ARDINAL LAB	0
(505) 393-2476	obbs, NM 88240	RATORIES	

Company Name: BBC International, Inc.		BILL TO			ANALYSIS REQUEST	UEST	
Project Manager: Cliff Brunson		P.O. #:					
Address: P.O. Box 805	ŭ.	Company:					
City: Hobbs State: N	State: NM Zip: 88241	Attn:	•				
Phone #: 575-397-6388 Fax #:	575-397-0397	Address:			e c		
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Project Name: Smile Stalke #3 (-)	B	State: Zip:					
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FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	LING				
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 Sample Condition
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No No

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

Time:

Page 26 of 29

Company Name: BBC International, Inc.  Project Manager: Cliff Brunson  Address: P.O. Box 805  City: Hobbs  State: NM Zip: 88241 Attn:  Phone #: 575-397-6388 Fax #: 575-397-0397 Address:  Project #: Project Owner: Oxionic City: C			
er: Cliff Brunson  b. Box 805  State: NM Zip: 88241  -397-6388  Fax #: 575-397-0397  Project Owner:	Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
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Page 27 of 29

Project Manager: Cliff Brunson	Company Name: BBC International, Inc.	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476
P.O. #:	BILL TO	
	ANALYSIS REQUEST	

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Company Name: BBC International, Inc.		BILLIO	ANALTOIS REQUEST
Project Manager: Cliff Brunson	P.O. #:		
Address: P.O. Box 805	Company:	7.5	
	State: NM Zip: 88241 Attn:		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393/2476 Sample Condition
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Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Page 28 of 29

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476		
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Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
Cit.: Hobbs State: NM 7in: 88241	Attne	

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Project Manager: Cliff Brunson		P.O. #:		0.00	
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ame: Spell State &		State: Zip:			
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by 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 consequental damages, including without initiation, business interruptions; loss of use, or loss of profits incurred by client, its substitutives.	exclusive remedy for any claim arising whether based in contract whatsoever shall be deemed waived unless made in writing and admages, including without initiation, business interruptions, in the contract of the contract o	any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for to deemed waived unless made in writing and received by Cardinal within 30 days after completion of the g without initiation, business interruptions, loss of use, or loss of profits incurred by client, its substiating without initiation, business interruptions, loss of use, or loss of profits incurred by client, its substiating without initiation, business interruptions, loss of use, or loss of profits incurred by client, its substiation of which we have deather treasures or otherwise.	lient for the ion of the applicable subsidiaries.		
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393(2476)

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Page 29 of 29

<u>District I</u> 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 Fc. NM 87505

### State of New Mexico **Energy Minerals and Natural Resources**

Form C-141

Revised August 8, 2011

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

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

			Relea	ase Notifica	ation	and Cor	rective Ac	tion				
9====					(	PERAT	OR	X	Initial	Report		Final Report
Name of Co		Oxy Permia		105			Casey Summers	0000				
Address Facility Na		ive, Midland State #3 CT		/05		Felephone Nacility Typ		-8289				
						acinty Typ	e Battery					
Surface Ow	ner Stat	e		Mineral C	)wner				API No	. 30-025-	33246	
						OF REL						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/We	est Line	County		
F	36	225	32E							Lea Cou	nty, NM	1
			L	atitude N 32.34	1979°	Longitude	e <u>W 103.62951</u> 5	2				
				NATI	JRE (	F RELE	ASE					
Type of Rele	ase Oil an	d Produced w	ater	- 11		Volume of	Release 10 bbls	oil,	Volume F	lecovered	18 bb	ls
Source of Re	lease Pow	er loss caused	the tank t	o spill over			duced water  Tour of Occurrence	e I	Date and	Hour of D	iscovery	v
						08/31/2016	5					, 
Was Immedi	ate Notice C		Yes [	No Not Re	equired	If YES, To Jamie Keye	Whom? es, Kristen Lynch	- NMOCI	)			
By Whom?		vis @ BBC I	nternation	al Inc.			lour 08/31/2016					
Was a Water	Was a Watercourse Reached?  ☐ Yes ☑ No  If YES, Volume Impacting the Watercourse.											
If a Watercon	If a Watercourse was Impacted, Describe Fully.*											
in a watercourse was impacted, Describe runy."												
Describe Cause of Problem and Remedial Action Taken.*												
A loss of pay										dina fluide		
A loss of power caused a tank to spill over and leak 10 bbls of oil and 10 bbls of produced water. A vacuum truck recovered all the free-standing fluids and the power was restored.												
Describe Are												
	Describe Area Affected and Cleanup Action Taken.*											
The affected area is approximately 250' x 25' both on and off location. Remediation will be completed in accordance with an approved remediation plan from NMOCD.												
from NMOCD.												
	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											
should their	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											
				stance of a C-141	report de	oes not reliev	e the operator of i	responsibi	ility for c	ompliance	with an	y other
lederal, state	or tocal fav	ws and/or regu	nations.				OIL CONS	SERVA	TION	DIVISI	ON	
	-/1						OIL COM	<u> </u>	111011	71171	<u> </u>	
Signature:		-				A	Environmental C					
Printed Name	e: Casey	Summers				Approved by	Environmental S	peciansi:				
Title: NM	Environmen	ital Advisor				Approval Dat	e:	Ex	piration	Date:		
E-mail Addre	ess: Case	y_Summers@	oxy.com			Conditions of	Approval:					
a	10	11					· · · LELT · · · · · · ·			Attache	d 📙	
Date: /	onal Shoot	s Il Nacassa	Phone:	(575) 513-828	39					1		
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