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Approved with Conditions
Brittany Hall 12/6/2022

DELINEATION WORKPLAN

COG – SIDEWINDER FED COM #004H (Leak Date: 7/16/18)

RP # 2RP-4863

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4863.

The following information includes:

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

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

COG will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP3 (green shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP4, SP5, and SP7 – SP11 (blue shade on diagram) will be excavated to a depth of 1.5 feet. The leak area near SP6 (purple shade on diagram) will be excavated to a depth of 2.5 feet.

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

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

COG, Sidewinder Fed Com #004H

Leak date: 07/16/18
Eddy County, NM
AP# 30-015-44192
2RP-4863

Legend

- 1.5 ft Excavation
- 2.5 ft Excavation
- 4 ft Excavation
- Cardinal sample points
- Sample points
- Leak in battery
- Leak on pad



COG, Sidewinder Fed Com #004H

Sample points

SP1, N 32.00053 W-104.01197

SP2, N 32.00057 W-104.01209

SP3, N 32.00063 W-104.01203

SP4, N 32.00061 W-104.01220

SP5, N 32.00054 W-104.01221

SP6, N 32.00045 W-104.01199

SP7, N 32.00042 W-104.01207

SP8, N 32.00043 W-104.01214

SP9, N 32.00040 W-104.01224

SP10, N 32.00045 W-104.01226

SP11, N 32.00032 W-104.01227

NORTH, N 32.00068 W-104.01210

SOUTH, N 32.00035 W-104.01213

EAST, N 32.00048 W-104.01191

WEST, N 32.00058 W-104.01228

COG, Sidewinder Federal Com #004H

U/L E, Section 32, T26S, R29E

Groundwater: <50'



Laboratory Analytical Results Summary
Sidewinder Fed Con #004H (7/16/18)

Analyte	Method	Sample ID	SP1 @	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
			SURFACE	7/20/18	7/20/18	7/20/18	7/20/18	7/20/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		10700	6400	1420	640	560	240
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP2 @	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			SURFACE	7/25/18	7/25/18	7/25/18	7/25/18	7/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		20800	6130	2840	1230	752	288
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP3 @	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
			SURFACE	7/25/18	7/25/18	7/25/18	7/25/18	7/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		13000	6260	2480	1220	848	272
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample ID	SP4 @	SP4 @ 1'	SP4 @ 2'
			SURFACE	7/26/18	7/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		1120	992	192
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

Analyte	Method	Sample ID	SP5 @	SP5 @ 1'	SP5 @ 2'
			SURFACE	7/26/18	7/26/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		7330	944	32
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

Analyte	Method	Sample ID	SP6 @	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
			SURFACE	7/26/18	7/26/18	7/26/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a
Chloride	SM4500Cl-B		9060	4080	896	144
GRO	TPH 8015M		n/a	<10.0	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a

Analyte	Method	Sample ID	SP7 @	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
			SURFACE	7/26/18	7/26/18	7/26/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a
Chloride	SM4500Cl-B		37200	3240	464	80
GRO	TPH 8015M		n/a	<10.0	n/a	n/a
DRO	TPH 8015M		n/a	17	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a

Analyte	Method	Sample ID	SP8 @	SP8 @ 1'	SP8 @ 2'
			SURFACE	7/26/18	7/27/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		13900	896	96
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	23.2	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

Laboratory Analytical Results Summary
Sidewinder Fed Con #004H (7/16/18)

		Sample ID	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 2'
Analyte	Method	Date	7/27/18	7/27/18	7/27/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		20000	848	112
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

		Sample ID	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 2'
Analyte	Method	Date	7/27/18	7/27/18	7/27/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		16800	896	80
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

		Sample ID	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 2'
Analyte	Method	Date	7/27/18	7/27/18	7/27/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		13000	768	96
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

<i>Cardinal</i>		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	7/26/18	7/26/18	7/26/18	7/27/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32	32	32	160
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 03, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SIDEWINDER FED COM #004H

Enclosed are the results of analyses for samples received by the laboratory on 08/02/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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	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.

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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/20/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H802104-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 1 @ 1' (H802104-02)

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	08/02/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/02/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/02/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/02/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	08/03/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/20/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 1' (H802104-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	84.3 %	37.6-147							

Sample ID: SP 1 @ 2' (H802104-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 1 @ 3' (H802104-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 1 @ 4' (H802104-05)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/03/2018	ND	416	104	400	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/20/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 5' (H802104-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 2 @ SURFACE (H802104-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	08/03/2018	ND	416	104	400	0.00	

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/25/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 1' (H802104-08)

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	08/02/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/02/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/02/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/02/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	08/03/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 75.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/25/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 2' (H802104-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 2 @ 3' (H802104-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 2 @ 4' (H802104-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 2 @ 5' (H802104-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/03/2018	ND	416	104	400	0.00	

Sample ID: SP 3 @ SURFACE (H802104-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	08/03/2018	ND	432	108	400	3.77	QM-07

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/25/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 1' (H802104-14)

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	08/02/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/02/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/02/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/02/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/02/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 81.3 % 41-142

Surrogate: 1-Chlorooctadecane 73.8 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/25/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 2' (H802104-15)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 3 @ 3' (H802104-16)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 3 @ 4' (H802104-17)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 3 @ 5' (H802104-18)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 4 @ SURFACE (H802104-19)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 1' (H802104-20)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 76.1 % 41-142

Surrogate: 1-Chlorooctadecane 67.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 4 @ 2' (H802104-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 5 @ SURFACE (H802104-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 1' (H802104-23)

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	08/03/2018	ND	1.81	90.7	2.00	2.32		
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32		
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47		
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20		
Total BTEX	<0.300	0.300	08/03/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	08/03/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50		
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35		
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND						

Surrogate: 1-Chlorooctane 63.8 % 41-142

Surrogate: 1-Chlorooctadecane 56.0 % 37.6-147

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 2' (H802104-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 6 @ SURFACE (H802104-25)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 1' (H802104-26)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 80.8 % 41-142

Surrogate: 1-Chlorooctadecane 73.2 % 37.6-147

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Analytical Results For:

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 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 2' (H802104-27)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 6 @ 3' (H802104-28)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 7 @ SURFACE (H802104-29)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	37200	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 7 @ 1' (H802104-30)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	17.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 76.8 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 7 @ 2' (H802104-31)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 7 @ 3' (H802104-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 8 @ SURFACE (H802104-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13900	16.0	08/03/2018	ND	432	108	400	3.77	QM-07

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 8 @ 1' (H802104-34)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	23.2	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 81.4 % 41-142

Surrogate: 1-Chlorooctadecane 76.2 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 8 @ 2' (H802104-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 9 @ SURFACE (H802104-36)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 9 @ 1' (H802104-37)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 72.6 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 9 @ 2' (H802104-38)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 10 @ SURFACE (H802104-39)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	08/03/2018	ND	432	108	400	3.77	

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Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 10 @ 1' (H802104-40)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 77.9 % 41-142

Surrogate: 1-Chlorooctadecane 70.0 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 10 @ 2' (H802104-41)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/03/2018	ND	432	108	400	3.77	

Sample ID: SP 11 @ SURFACE (H802104-42)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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 Hobbs NM, 88241
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Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 11 @ 1' (H802104-43)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 77.5 % 41-142

Surrogate: 1-Chlorooctadecane 68.7 % 37.6-147

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Analytical Results For:

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/27/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 11 @ 2' (H802104-44)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/03/2018	ND	432	108	400	3.77	

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Analytical Results For:

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 Cliff Brunson
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Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: NORTH @ SURFACE (H802104-45)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 70.9 % 41-142

Surrogate: 1-Chlorooctadecane 63.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: EAST @ SURFACE (H802104-46)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 71.6 % 41-142

Surrogate: 1-Chlorooctadecane 62.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: WEST @ SURFACE (H802104-47)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 66.4 % 41-142

Surrogate: 1-Chlorooctadecane 58.0 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	08/02/2018	Sampling Date:	07/26/2018
Reported:	08/03/2018	Sampling Type:	Soil
Project Name:	SIDEWINDER FED COM #004H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SOUTH @ SURFACE (H802104-48)

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	08/03/2018	ND	1.81	90.7	2.00	2.32	
Toluene*	<0.050	0.050	08/03/2018	ND	1.87	93.3	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/03/2018	ND	1.88	94.2	2.00	3.47	
Total Xylenes*	<0.150	0.150	08/03/2018	ND	5.60	93.3	6.00	3.20	
Total BTEX	<0.300	0.300	08/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/03/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2018	ND	188	94.0	200	3.50	
DRO >C10-C28*	<10.0	10.0	08/02/2018	ND	191	95.7	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	08/02/2018	ND					

Surrogate: 1-Chlorooctane 77.2 % 41-142

Surrogate: 1-Chlorooctadecane 70.6 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 5

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company: COG													
City: Hobbs State: NM Zip: 88241		Attn: Haskell													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: COG		City:													
Project Name: Sidewinder Fed Com #004H (7/16/18)		State: Zip:													
Project Location: Eddy County, NM		Phone #:													
Sampler Name: Jeff Ornelas		Fax #:													

Lab I.D.	Sample I.D.	G/RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	C1	BTEX	TPH EXT
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H802104																
1	SP1 @ SURFACE	G			✓				✓		7/20/18	2:15 PM	✓			
2	SP1 @ 1'	G			✓				✓		7/20/18	2:18 PM	✓	✓	✓	
3	SP1 @ 2'	G			✓				✓		7/20/18	2:30 PM	✓			
4	SP1 @ 3'	G			✓				✓		7/20/18	2:40 PM	✓			
5	SP1 @ 4'	G			✓				✓		7/20/18	2:55 PM	✓			
6	SP1 @ 5'	G			✓				✓		7/20/18	3:11 PM	✓			
7	SP2 @ SURFACE	G			✓				✓		7/25/18	9:50 AM	✓			
8	SP2 @ 1'	G			✓				✓		7/25/18	10:15 AM	✓	✓	✓	
9	SP2 @ 2'	G			✓				✓		7/25/18	10:29 AM	✓			
10	SP2 @ 3'	G			✓				✓		7/25/18	10:43 AM	✓			

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Relinquished By: <i>Jeff Ornelas</i>	Date: <i>7/21/18</i> Time: <i>5:30pm</i>	Received By: <i>Jamora Aldredge</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <i>8/2/18</i> Time: <i>12:00</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <i>3.66</i>	Sample Condition	CHECKED BY: (Initials) <i>TO-#8</i>	REMARKS:	
Sampler - UPS - Bus - Other: <i>Corrected 2:55P</i>	Cool / Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>* Has some head space</i>	

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

JUL 17 2018

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 DISTRICT II-ARTESIA O.C.D.
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

NAB1819932821

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: Sidewinder Federal Com #004H	Facility Type: Tank Battery
Surface Owner: Private	Mineral Owner: Federal
API No. 30-015-44192	

LOCATION OF RELEASE

Unit Letter E	Section 32	Township 26S	Range 29E	Feet from the 1,970	North/South Line North	Feet from the 950	East/West Line West	County Eddy
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Latitude 32.0007825 Longitude -104.0122515 NAD83

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 1 bbl. – Oil 15 bbl. – Produced Water	Volume Recovered 0.75 bbl. – Oil 13 bbl. – Produced Water
Source of Release Fire tube failure	Date and Hour of Occurrence July 16, 2018 5:30am	Date and Hour of Discovery July 16, 2018 5:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – NMOCD Shelly Tucker – BLM	
By Whom? DeAnn Grant	Date and Hour July 16, 2018 11:00am – Mr. Bratcher 1:08pm – Ms. Tucker	
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.*
The release was due to the fire tube failing, releasing fluid from the heater and causing a fire.

Describe Area Affected and Cleanup Action Taken.*
The release was on location. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>DeAnn Grant</i>	OIL CONSERVATION DIVISION	
Printed Name: DeAnn Grant	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: HSE Administrative Assistant	Approval Date: 7/17/18	Expiration Date: N/A
E-mail Address: agrant@concho.com	Conditions of Approval: See attached	Attached: <i>28P-4863</i>
Date: July 16, 2018	Phone: (432) 253-4513	

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on July 17, 2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number SRP-48123 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 Arctic on or before 8/16/18. 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

Pruett, Maria, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, July 17, 2018 11:10 AM
To: Pruet, Maria, EMNRD
Subject: FW: Revised (C-141 Initial) Sidewinder Federal Com #004H (30-015-44192) 07-16-2018
Attachments: Revised (C-141 Initial) Sidewinder Federal Com #004H (30-015-44192) 07-16-2018.pdf

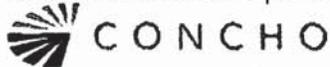
From: DeAnn Grant <agrants@concho.com>
Sent: Monday, July 16, 2018 4:03 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Tucker, Shelly <stucker@blm.gov>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrants@concho.com>
Subject: Revised (C-141 Initial) Sidewinder Federal Com #004H (30-015-44192) 07-16-2018

Mr. Bratcher/Ms. Tucker,

The attached C-141 for the Sidewinder Federal Com #004H has been revised to reflect updated release and recovery volumes.

Thank you,

DeAnn Grant
HSE Administrative Assistant
agrants@concho.com
COG Operating LLC
600 W Illinois Avenue | Midland, TX 79701
Direct: 432-253-4513 | Main: 432.683.7443



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Bratcher, Mike, EMNRD

From: DeAnn Grant <agrant@concho.com>
Sent: Monday, July 16, 2018 12:08 PM
To: Tucker, Shelly
Cc: Bratcher, Mike, EMNRD; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell; DeAnn Grant
Subject: FW: (Notification) Sidewinder Federal Com #004H (30-015-44192) 07-16-2018

Ms. Tucker,

I'm sorry, I just noticed I did not include you on the notification below.

Thank you,

DeAnn Grant

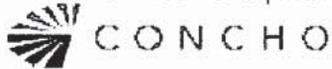
HSE Administrative Assistant

agrant@concho.com

~~COG Operating LLC~~

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



From: DeAnn Grant
Sent: Monday, July 16, 2018 11:00 AM
To: 'Bratcher, Mike, EMNRD'
Cc: Weaver, Crystal, EMNRD; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell; DeAnn Grant
Subject: (Notification) Sidewinder Federal Com #004H (30-015-44192) 07-16-2018

Mr. Bratcher,

COG Operating, LLC (OGRID# 229137) is reporting a fire and a produced water release at the Sidewinder Federal Com #004H (30-015-44192).

Release Location:

ULSTR: E-32-265-29E

Lat/Long: 32.0007825, -104.0122515

Date of Release: July 16, 2018

Release Volume: approximately 15 bbl.

Recovery Volume: On going

COG will have the release evaluated and will submit an initial C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

DeAnn Grant

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 163989

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 163989
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	Base and side wall samples confirmation samples need to be collected and representative of no more than 200 square feet. All confirmation samples must be analyzed for the constituents in Table 1 of 19.15.29.12 NMAC.	12/6/2022
bhall	Remediation and closure must comply with 19.15.29.12 and 19.15.29.13 NMAC.	12/6/2022
bhall	2RP-4863 closed. Refer to incident #NAB1819932821 in all future communication.	12/6/2022
bhall	Please submit a complete report through the OCD Permitting website by 3/10/2023.	12/6/2022