

Closure Report

Site Description

Site Name:	GJ West Coop Unit North Tank Battery
Company:	COG Operating LLC
Legal Description:	U/L G, Section 21, T17S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.82109° W 104.07641°

Release Data

Date of Release:	02/24/2016
Type of Release:	Oil and produced water
Source of Release:	Flow line
Volume of Release:	2 bbls oil, 3 bbls produced water
Volume Recovered:	2 bbls oil, 1 bbl produced water

Remediation Specifications

Remediation Parameters:	Excavate by hand the areas of SP1, SP2, and SP3 to remove as much material as practicable. In the area of SP4, excavate to a depth of 4 ft and in the area of SP5, excavate to a depth of 3 ft. Then place an impermeable liner in the excavation areas of both SP4 & SP5. Backfill the site with clean soil.
Remediation Activities:	08/15/2016 to 08/23/2016

Plan Sent to OCD:	07/11/2016	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	07/22/2016	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	07/11/2016	Email from Cliff Brunson to Amber Groves
SLO Approval of Plan:	08/01/2016	Email from Amber Groves to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 03/08/2016
Final C-141	Signed 08/25/2016
Site Diagram	March 2016
Groundwater Plot	75'-100'
TOPO Maps	March 2016
Lab Summary	05/31/2016-06/03/2016
Lab Analysis	05/31/2016-06/03/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

08/30/2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: GJ West Coop Unit North Tank Battery	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. NA
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LOCATION OF RELEASE

Unit Letter G	Section 21	Township 17S	Range 29E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.82109 Longitude -104.07641

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 2 bbls Oil ; 3 bbls PW	Volume Recovered: 2 bbls Oil ; 1 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 2/24/2016 12:00 pm	Date and Hour of Discovery: 2/24/2016 12:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

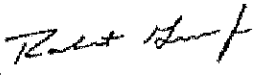
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a corroded steel flowline. A vacuum truck was dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release occurred along the west fence line of the battery. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Robert Grubbs		Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator		Approval Date:	Expiration Date:
E-mail Address: rgrubbs@concho.com		Conditions of Approval:	
Date: March 8, 2016 Phone: 432-230-0077		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary .

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

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.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-230-0077
Facility Name: GJ West Coop Unit North Tank Battery	Facility Type: Battery

Surface Owner: State	Mineral Owner:	API No. N/A
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	21	17S	29E					Eddy County, NM

Latitude N 32.82109° Longitude W 104.07641°

NATURE OF RELEASE

Type of Release: Oil and produced water	Volume of Release: 2 bbls oil, 3 bbls produced water	Volume Recovered: 2 bbls oil, 1 bbl produced water
Source of Release: Flowline	Date and Hour of Occurrence 02/24/2016 @ 12:00 pm	Date and Hour of Discovery 02/24/2016 @ 12:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*


This release was caused by a corroded steel flow line. A vacuum truck was dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release occurred along the west fence line of the battery. The site was delineated and a remediation plan was sent to NMOCD and the SLO. The remediation plan was approved by Mike Bratcher of NMOCD via email on 07/22/2016 and approved by Amber Groves of the SLO via email on 08/01/2016. Remediation was completed in accordance with the approved plan.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:		
Printed Name: Robert Grubbs			
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rgrubbs@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: August 25, 2016	Phone: (432) 683-7443		

* Attach Additional Sheets If Necessary



Concho

GJ West Coop Unit N TB (2/24/16)



U/L G, Section 21, T17S, R29E

Eddy County, NM

N 32.82088° W 104.07718°

BBC International, Inc.	
Concho	
GJ West Coop Unit N TB	
Date: 06/02/2016	DRWG by: K. Purvis
NOT TO SCALE	File: COG 2016



Groundwater Plot

Concho GJ West Coop Unit North TB

County
Eddy

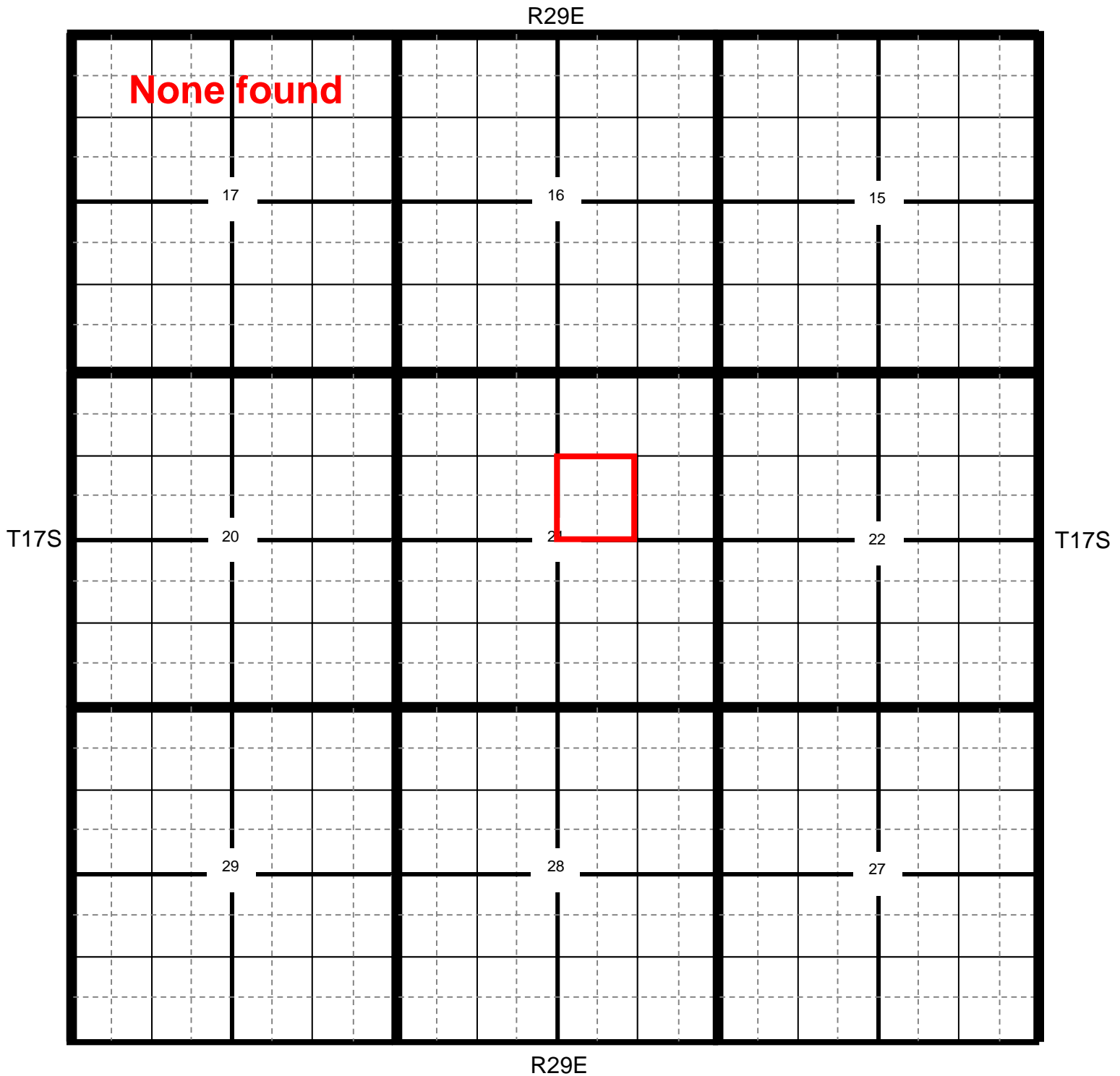
Unit Letter
G

Section
21

Township
17S

Range
29E

Trend Map 75'-100'



📍 Location

● OCD

● USGS

● SEO

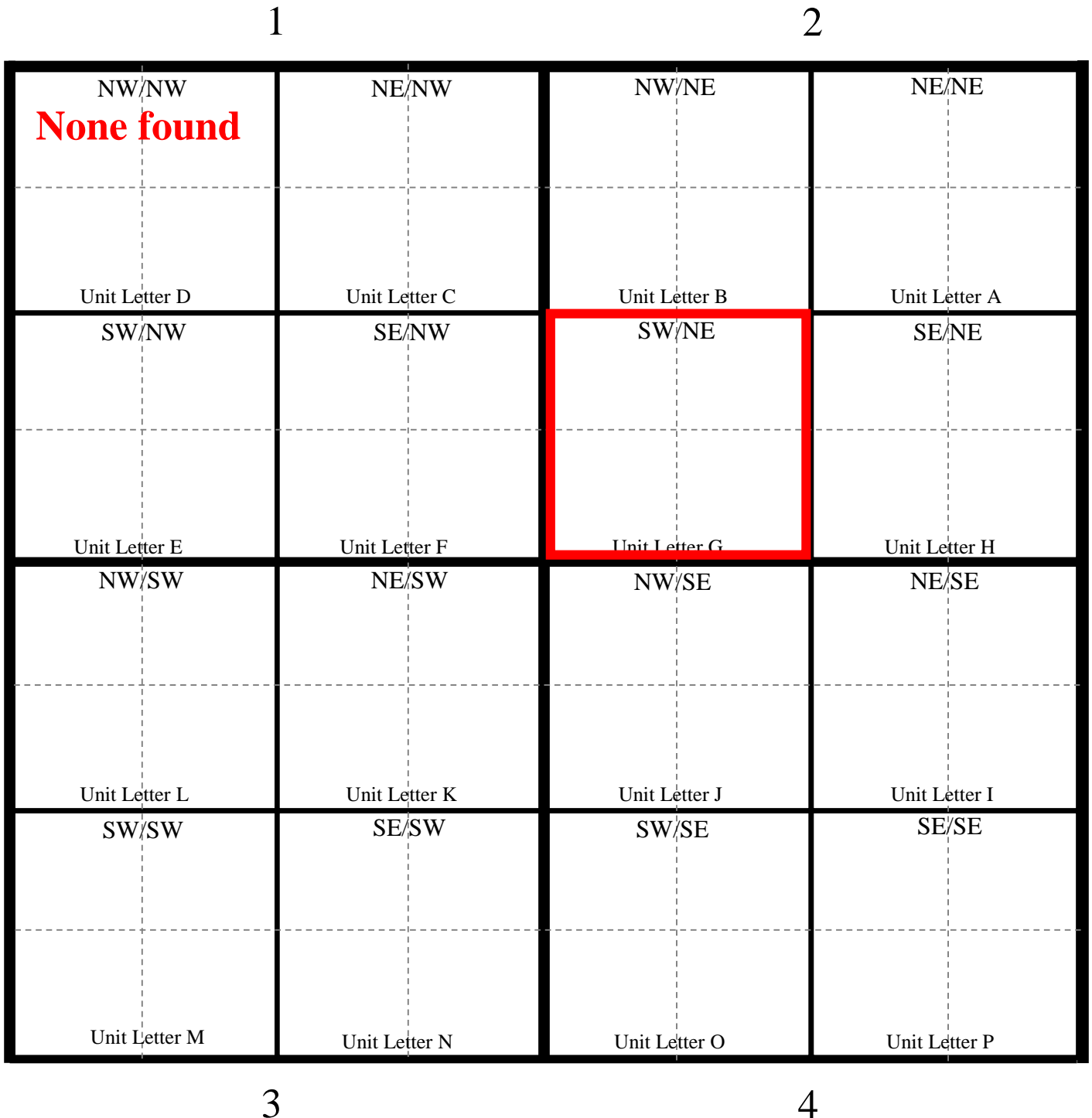
● All Databases

Section Quarters

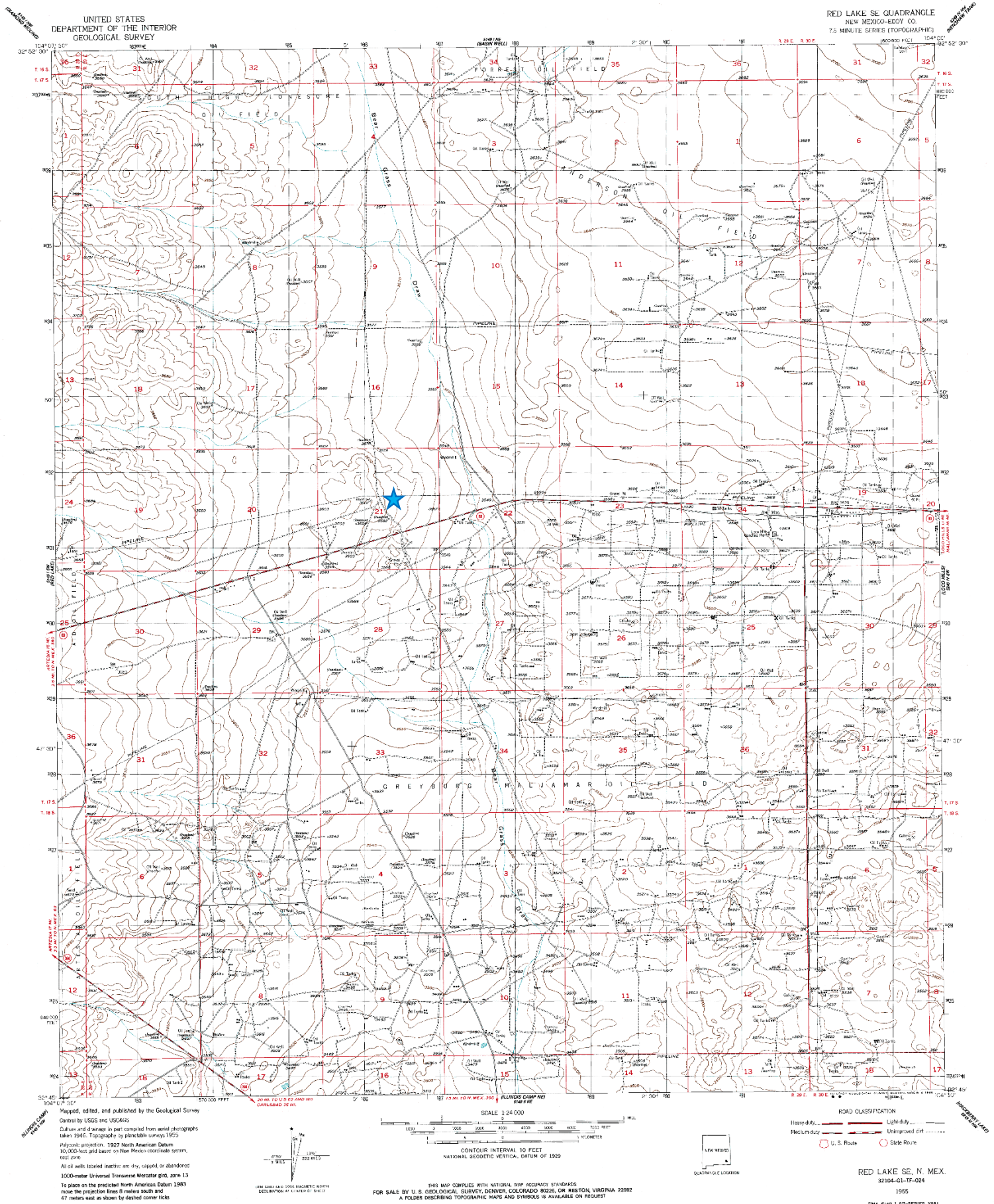
Concho GJ West Coop Unit North TB

County Eddy
 Unit Letter G
 Section 21
 Township 17S
 Range 29E

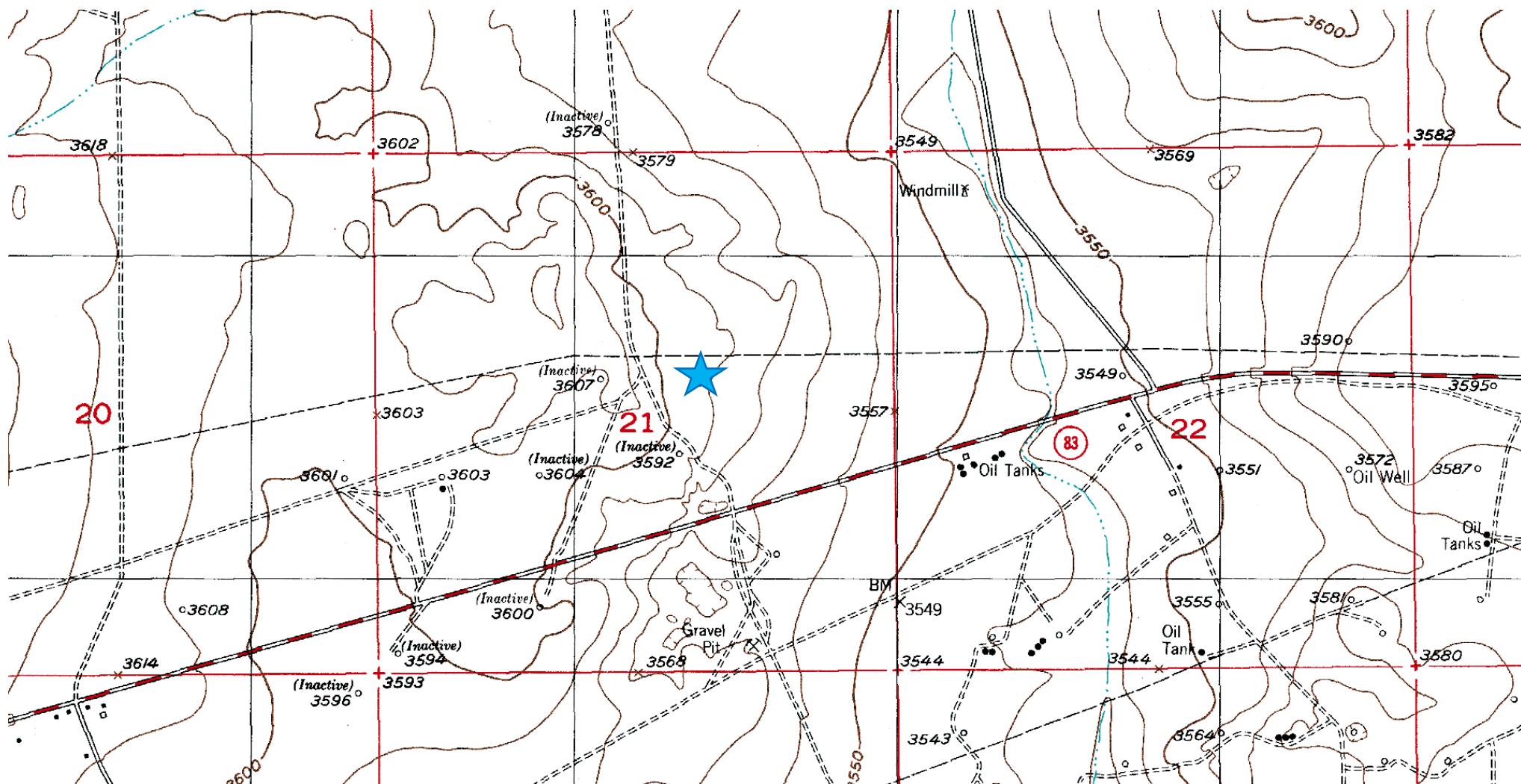
Trend Map 75'-100'



GJ West Coop Unit N TB



GJ West Coop Unit N TB



Laboratory Analytical Results Summary
GJ West Coop Unit N TB

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 8'
Analyte	Method	Date	5/31/16	5/31/16	5/31/16	5/31/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.082	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		0.249	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.331	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		10800	11600	11200	12000
GRO	TPH 8015M		<50.0	<50.0	<10.0	<10.0
DRO	TPH 8015M		157	143	39.9	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	6/1/16	6/3/16	6/3/16	6/3/16	6/3/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<1.00	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.12	7.45	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	17.3	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		34.4	31.5	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		35.5	56.2	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2400	96	80	3040	1440
GRO	TPH 8015M		1090	1610	<10.0	<10.0	<10.0
DRO	TPH 8015M		4990	6180	157	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'
Analyte	Method	Date	5/31/16	5/31/16	5/31/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		0.109	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.137	0.064	n/a
Total Xylenes	BTEX 8021B		0.563	0.241	n/a
Total BTEX	BTEX 8021B		0.809	0.304	n/a
Chloride	SM4500Cl-B		12800	11100	9200
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		<50.0	114	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	6/1/16	6/3/16	6/3/16	6/3/16	6/3/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		30.3	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		30.3	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		2960	784	2600	3320	2360
GRO	TPH 8015M		1350	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		7420	159	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	6/1/16	6/3/16	6/3/16	6/3/16	6/3/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		28.7	<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		28.7	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		3040	800	2880	3320	1920
GRO	TPH 8015M		1440	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		7510	126	<10.0	<10.0	<10.0

June 13, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GJ WEST COOP NTB

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 1' (H601235-01)

BTEX 8260B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	0.082	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	0.249	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTEX	0.331	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 101 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.5 % 80.1-121

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/08/2016	ND	173	86.5	200	3.83	
DRO >C10-C28	157	50.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 76.4 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 3' (H601235-02)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111
Surrogate: Toluene-d8 98.9 % 85.3-114
Surrogate: 4-Bromofluorobenzene 98.4 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/08/2016	ND	173	86.5	200	3.83	
DRO >C10-C28	143	50.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 76.7 % 35-147
Surrogate: 1-Chlorooctadecane 121 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 6' (H601235-03)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 96.4 % 85.3-114

Surrogate: 4-Bromofluorobenzene 97.7 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	173	86.5	200	3.83	
DRO >C10-C28	39.9	10.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 78.7 % 35-147

Surrogate: 1-Chlorooctadecane 97.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP1 @ 8' (H601235-04)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	06/08/2016	ND	384	96.0	400	4.08	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H601235-05)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	0.109	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	0.137	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	0.563	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	0.809	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111
Surrogate: Toluene-d8 102 % 85.3-114
Surrogate: 4-Bromofluorobenzene 98.1 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	06/08/2016	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/08/2016	ND	173	86.5	200	3.83	
DRO >C10-C28	<50.0	50.0	06/08/2016	ND	183	91.3	200	4.76	

Surrogate: 1-Chlorooctane 66.4 % 35-147
Surrogate: 1-Chlorooctadecane 93.4 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 3' (H601235-06)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	0.064	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	0.241	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	0.304	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111
Surrogate: Toluene-d8 99.8 % 85.3-114
Surrogate: 4-Bromofluorobenzene 100 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	114	10.0	06/08/2016	ND	209	104	200	2.15	QM-07

Surrogate: 1-Chlorooctane 95.5 % 35-147
Surrogate: 1-Chlorooctadecane 85.3 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 05/31/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP2 @ 6' (H601235-07)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	06/08/2016	ND	384	96.0	400	4.08	

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/01/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 1' (H601235-08)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<1.00	1.00	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<1.00	1.00	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	30.3	3.00	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTEX	30.3	6.00	06/09/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111
Surrogate: Toluene-d8 97.7 % 85.3-114
Surrogate: 4-Bromofluorobenzene 108 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	06/08/2016	ND	384	96.0	400	4.08		
TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1350	200	06/08/2016	ND	206	103	200	1.60		
DRO >C10-C28	7420	200	06/08/2016	ND	209	104	200	2.15		

Surrogate: 1-Chlorooctane 225 % 35-147
Surrogate: 1-Chlorooctadecane 190 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2' (H601235-09)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 96.2 % 85.3-114

Surrogate: 4-Bromofluorobenzene 103 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	159	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 3' (H601235-10)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111
Surrogate: Toluene-d8 99.1 % 85.3-114
Surrogate: 4-Bromofluorobenzene 99.4 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	<10.0	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 88.4 % 35-147
Surrogate: 1-Chlorooctadecane 82.7 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 4' (H601235-11)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<0.050	0.050	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTEx	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 102 % 90.4-111

Surrogate: Toluene-d8 97.5 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.8 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	06/08/2016	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60		
DRO >C10-C28	<10.0	10.0	06/08/2016	ND	209	104	200	2.15		

Surrogate: 1-Chlorooctane 88.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.6 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP3 @ 5' (H601235-12)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	06/08/2016	ND	384	96.0	400	4.08	

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/01/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 1' (H601235-13)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/09/2016	ND	2.03	101	2.00	2.70	
Toluene*	<1.00	1.00	06/09/2016	ND	2.14	107	2.00	3.42	
Ethylbenzene*	<1.00	1.00	06/09/2016	ND	2.12	106	2.00	4.37	
Total Xylenes*	28.7	3.00	06/09/2016	ND	7.12	119	6.00	2.75	
Total BTEX	28.7	6.00	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111
Surrogate: Toluene-d8 96.6 % 85.3-114
Surrogate: 4-Bromofluorobenzene 108 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	06/08/2016	ND	384	96.0	400	4.08		
TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1440	200	06/08/2016	ND	206	103	200	1.60		
DRO >C10-C28	7510	200	06/08/2016	ND	209	104	200	2.15		

Surrogate: 1-Chlorooctane 225 % 35-147
Surrogate: 1-Chlorooctadecane 209 % 28-171

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Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 2' (H601235-14)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/09/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.55	109	6.00	0.681	
Total BTX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111
Surrogate: Toluene-d8 98.1 % 85.3-114
Surrogate: 4-Bromofluorobenzene 103 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	126	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 99.3 % 35-147
Surrogate: 1-Chlorooctadecane 101 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 3' (H601235-15)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/09/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 97.6 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.7 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	<10.0	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 80.4 % 28-171

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 4' (H601235-16)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/09/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 97.9 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.3 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	<10.0	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 83.8 % 35-147

Surrogate: 1-Chlorooctadecane 82.3 % 28-171

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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: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP4 @ 5' (H601235-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	06/08/2016	ND	384	96.0	400	4.08		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/01/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 1' (H601235-18)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	06/09/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	1.12	0.500	06/09/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.500	0.500	06/09/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	34.4	1.50	06/09/2016	ND	6.55	109	6.00	0.681	
Total BTX	35.5	3.00	06/09/2016	ND					

Surrogate: Dibromofluoromethane 106 % 90.4-111

Surrogate: Toluene-d8 102 % 85.3-114

Surrogate: 4-Bromofluorobenzene 126 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	06/08/2016	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1090	200	06/08/2016	ND	206	103	200	1.60		
DRO >C10-C28	4990	200	06/08/2016	ND	209	104	200	2.15		

Surrogate: 1-Chlorooctane 170 % 35-147

Surrogate: 1-Chlorooctadecane 122 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 2' (H601235-19)

BTX 8260B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	7.45	1.00	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	17.3	1.00	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	31.5	3.00	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTX	56.2	6.00	06/10/2016	ND					

Surrogate: Dibromofluoromethane 107 % 90.4-111
Surrogate: Toluene-d8 99.9 % 85.3-114
Surrogate: 4-Bromofluorobenzene 113 % 80.1-121

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/08/2016	ND	432	108	400	3.77	
TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1610	200	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	6180	200	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 230 % 35-147
Surrogate: 1-Chlorooctadecane 151 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 3' (H601235-20)

BTX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 95.0 % 85.3-114

Surrogate: 4-Bromofluorobenzene 101 % 80.1-121

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/08/2016	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	157	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 4' (H601235-21)

BTEX 8260B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2016	ND	1.91	95.3	2.00	0.0315	
Toluene*	<0.050	0.050	06/10/2016	ND	2.01	100	2.00	1.18	
Ethylbenzene*	<0.050	0.050	06/10/2016	ND	1.97	98.3	2.00	0.00101	
Total Xylenes*	<0.150	0.150	06/10/2016	ND	6.55	109	6.00	0.681	
Total BTEX	<0.300	0.300	06/10/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 97.8 % 85.3-114

Surrogate: 4-Bromofluorobenzene 103 % 80.1-121

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	06/08/2016	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/08/2016	ND	206	103	200	1.60	
DRO >C10-C28	<10.0	10.0	06/08/2016	ND	209	104	200	2.15	

Surrogate: 1-Chlorooctane 91.2 % 35-147

Surrogate: 1-Chlorooctadecane 89.2 % 28-171

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: GJ WEST COOP NTB
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 06/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP5 @ 5' (H601235-22)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	06/08/2016	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		Company:											
Address: P.O. Box 805		Attn:											
City: Hobbs		Address:											
Phone #: 575-397-6388		City:											
Fax #: 575-397-0397		State:											
Project #:		Zip:											
Project Name:		Phone #:											
Project Location:		Fax #:											
Sample Name:		PRESERV											
FOR LAB USE ONLY		SAMPLING											
Lab I.D.		Sample I.D.											
H001235		SP304-											
11		e 5											
12		e 5											
13		SP401-											
14		e 2											
15		e 3											
16		e 4											
17		e 5											
18		SP501-											
19		e 2											
20		e 3											
DATE		TIME											
6-3-16		10:30											
6-3-16		10:40											
6-1-16		11:15											
6-3-16		11:00											
6-3-16		11:10											
6-3-16		11:20											
6-3-16		11:30											
6-1-16		11:10											
6-3-16		11:40											
6-3-16		11:50											
REMARKS:													
Relinquished By:													
Relinquished By:													
Delivered By: (Circle One)													
Sample - UPS - Bus - Other:													
3.50													



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																																									
Project Manager: Cliff Brunson		P.O. #:																																											
Address: P.O. Box 805		Company: C.O.G.																																											
City: Hobbs		Attn:																																											
State: NM Zip: 88241		Address:																																											
Phone #: 575-397-6388		Fax #: 575-397-0397																																											
Project #:		City:																																											
Project Name: GJS WEST COOP NTB		State: Zip:																																											
Project Location:		Phone #:																																											
Sampler Name: Peter Hernandez		Fax #:																																											
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																																							
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																			
H601235		SP504		C1		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-3-16		1208		✓		✓		✓													
a1		a2		C1		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-3-16		1220		✓		✓		✓													

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Friday, July 22, 2016 10:01 AM
To: Cliff Brunson
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Patterson, Heather, EMNRD; 'agroves@slo.state.nm.us'
Subject: RE: COG - GJ West Coop Unit N TB - Remediation Plan

RE: COG * GJ West COOP Ut North Tank Btry * **2RP-3607** * DOR: 2/24/16

Cliff,

Your proposal for remediation of the above referenced release is approved. It is noted that the area identified as SP-1, SP-2 and SP-3, will be excavated to the extent practicable, but will be extremely limited due to numerous poly lines across the area. This portion of the release will be placed for deferral by OCD. As discussed, the barrier medium will be clay/bentonite where proposed. Please advise once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Monday, July 11, 2016 5:10 PM
To: Bratcher, Mike, EMNRD
Cc: Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Patterson, Heather, EMNRD
Subject: COG - GJ West Coop Unit N TB - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the COG GJ West Coop Unit N TB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

B

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
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From: [Groves, Amber](#)
To: [Bratcher, Mike, EMNRD](#); [Cliff Brunson](#)
Cc: [Robert Grubbs](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [Patterson, Heather, EMNRD](#)
Subject: RE: COG - GJ West Coop Unit N TB - Remediation Plan
Date: Monday, August 1, 2016 7:54:46 AM
Attachments: [image001.png](#)
[image003.png](#)

Cliff,

NMSLO agrees with work plan approval.

Thank you,

Amber Groves

Remediation Specialist

Field Operations Division

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88260

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From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]
Sent: Friday, July 22, 2016 10:01 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>; Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>; Groves, Amber <agroves@slo.state.nm.us>
Subject: RE: COG - GJ West Coop Unit N TB - Remediation Plan

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