

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

HOBBS OCD

OCT 31 2013

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	CJ Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	GH Mattix Federal Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	3	24S	37E					Lea Co.

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Produced water & Oil	Volume of Release	10 bbls of water and 5 bbls of oil	Volume Recovered	0 bbls
Source of Release	Fuse failure on panel which caused tank to spill over	Date and Hour of Occurrence	08/12/2013	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jennifer Van Curen, James Amos-BLM and Geoffrey Leking-OCD		
By Whom?	Rachael McPherson	Date and Hour	08/13/2013 @ 10:46 am		
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.*

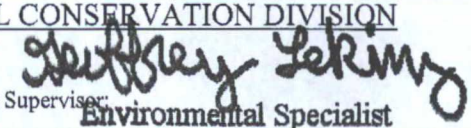
Describe Cause of Problem and Remedial Action Taken.*

The fuse on a panel failed causing a tank to spill 10 bbls of produced water and 5 bbls of oil onto the ground. No fluids were recovered and the fuse was replaced.

Describe Area Affected and Cleanup Action Taken.*

The areas affected are the location pad and the pasture. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 10/03/2013 and approved by Jennifer Van Curen of the BLM via email on 10/06/2013.

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:	OIL CONSERVATION DIVISION  Approved by District Supervisor: Geoffrey Leking Environmental Specialist		
Printed Name:	Chancey Summers	Approval Date:	10/31/13
Title:	HES Specialist	Expiration Date:	-
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:	-
Date:	10/28/13	Attached	<input type="checkbox"/>
Phone:	(575) 397-8216		

* Attach Additional Sheets If Necessary

Closure Report

HOBBS OCD
OCT 31 2013

Site Description

RECEIVED

Site Name:	GH Mattix Federal Battery
Company:	Oxy Permian Ltd. <i>approved</i>
Legal Description:	Section 3, T24S, R37E <i>Geoffrey Leking</i>
County:	Lea County, NM
GPS Coordinates:	N 32.24385° W 103.14959° <i>Environmental Specialist</i> <i>NMOCD-DIST 10/31/13</i>

Release Data

Date of Release:	08/12/2013
Type of Release:	Produced water & oil
Source of Release:	Fuse failure on panel caused tank overflow
Volume of Release:	10 bbls of produced water, 5 bbls of oil
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate across the entire leak site to a depth of 1 foot. Then, backfill the site with clean soil.
Remediation Activities:	10/18/2013 to 10/24/2013

Plan Sent to OCD:	10/02/2013	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	10/03/2013	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	10/03/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	10/06/2013	Email from J. Van Curen to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 08/22/2013
Final C-141	Signed 10/28/2013
Site Diagram	August 2013
Groundwater Plot	<100'
TOPO Maps	August 2013
Lab Summary	08/27/2013
Lab Analysis	08/27/2013
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.

10/28/2013

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Energy Minerals and Natural Resources

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OPERATOR

☒ Initial Report ☐ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	GH Mattix Federal Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	3	24S	37E					Lea Co.

Latitude _____ Longitude _____

NATURE OF RELEASE

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By Whom?	Rachael McPherson	Date and Hour	08/13/2013 @ 10:46 am		
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If a Watercourse was Impacted, Describe Fully.*

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OIL CONSERVATION DIVISION

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 8/22/13

Phone: (575) 397-8216

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

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Energy Minerals and Natural Resources
Oil Conservation Division
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Facility Name	GH Mattix Federal Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	3	24S	37E					Lea Co.

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NATURE OF RELEASE

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OIL CONSERVATION DIVISION

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

E-mail Address: Chancey.Summers@oxy.com

Date: 8/22/13

Phone: (575) 397-8216

Approved by District Supervisor:

Approval Date:

Expiration Date:

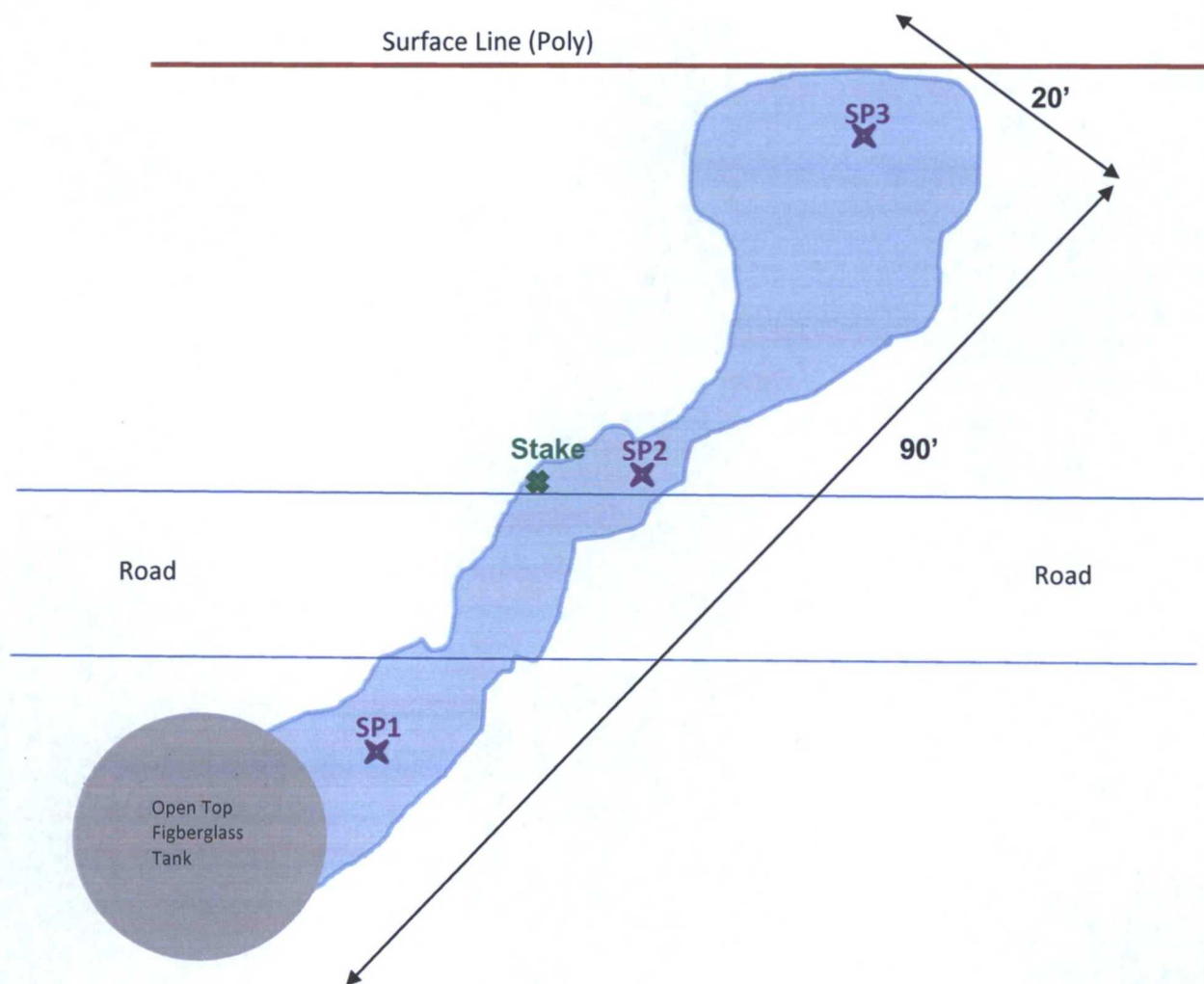
Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary



Oxy
GH Mattix Federal Battery



Section 3, T24S, R37E
Lea County, NM
N 32.24385° W 103.14959°

BBC International, Inc.	
Oxy GH Mattix Federal Btry	
Date: 08/26/2013	DRWG by: JG
NOT TO SCALE	File: Oxy 2013

Groundwater Plot

Oxy GH Mattix Federal Battery

County
Lea Co.

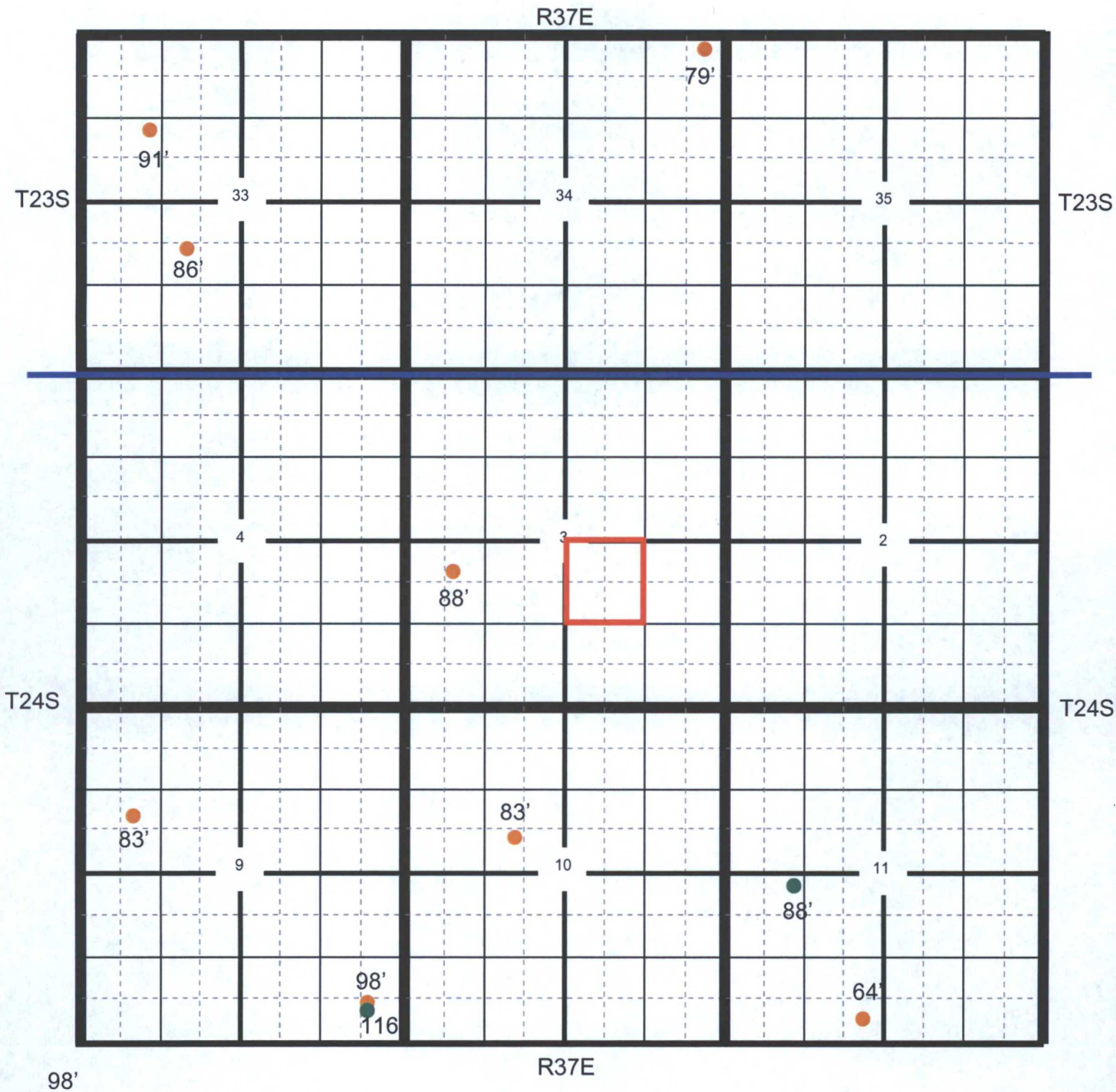
Unit Letter
J

Section
3

Township
24S

Range
37E

Trend Map <100'



Location

OCD

USGS

SEO

All Databases

Oxy GH Mattix Federal Btry

County
Lea Co.

Unit Letter
J

Section
3

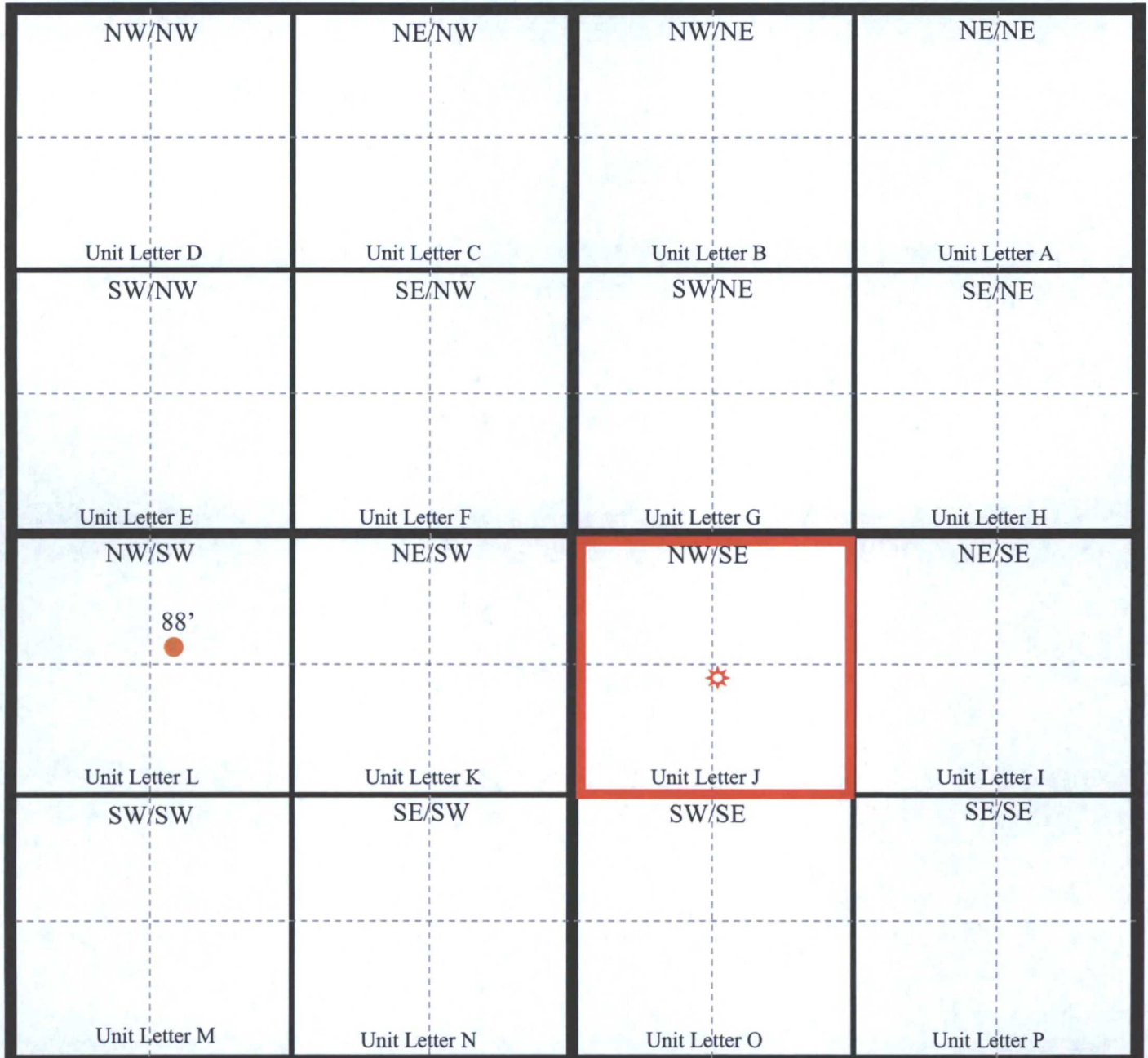
Township
24S

Range
37E

Trend Map <100'

1

2



3

4

☀ Location

● OCD

● USGS

● SEO

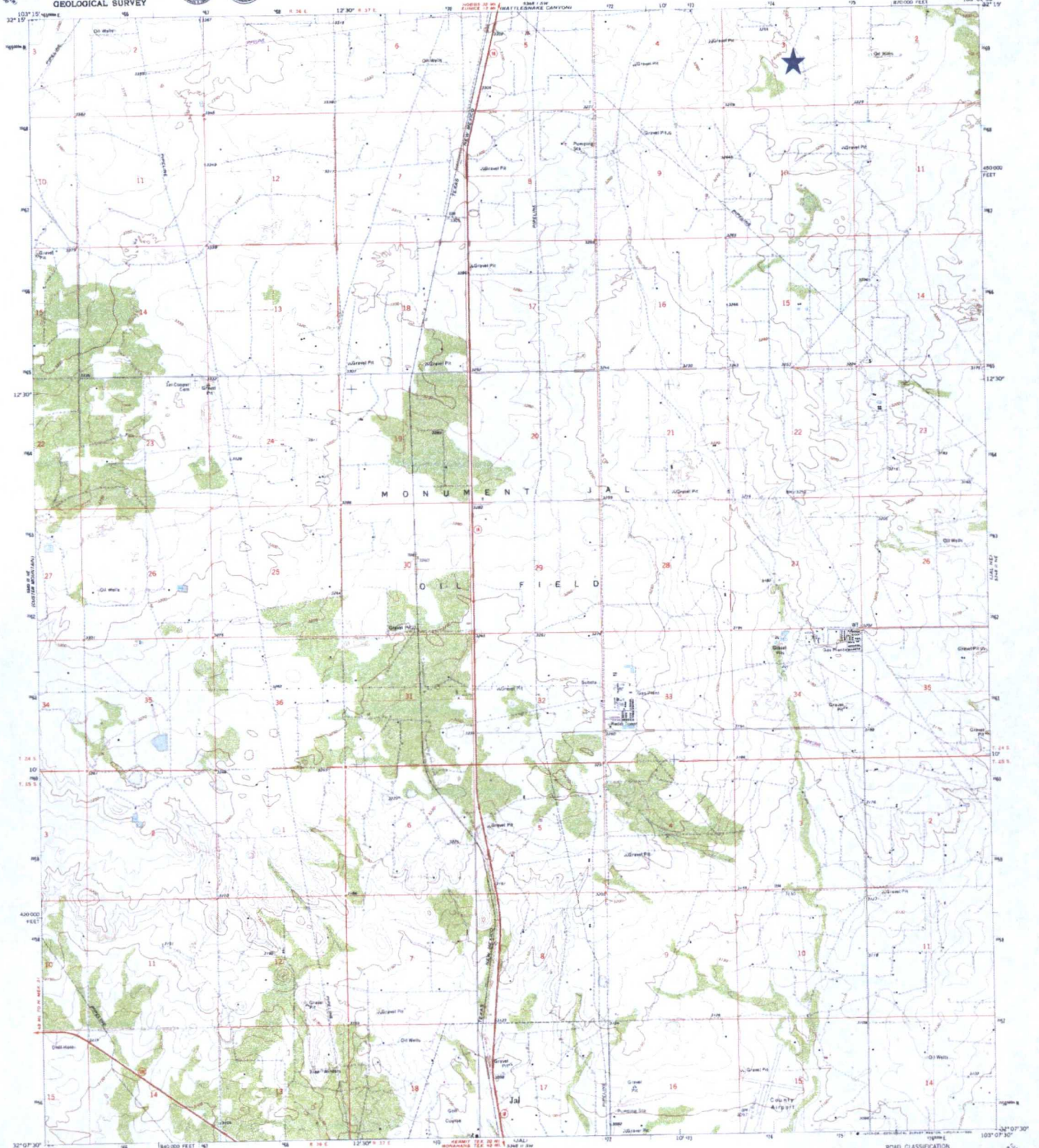
● All Databases

Oxy

GH Mattix Federal Battery

JAL NW QUADRANGLE
NEW MEXICO-LEA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Maped, edited, and published by the Geological Survey

Control by USGS and NOAA
Topography by photogrammetric methods from aerial
photographs taken 1968. Field checked 1969
Polygonal projection. 1927 North American datum
10,000-foot grid based on New Mexico corner data system,
east zone
1000-meter Universal Transverse Mercator grid ticks,
zone 13, shown in blue
Fine red dashed lines indicate selected fence lines
Reservoirs shown in purple contained from aerial photographs
taken 1977 and other source data. This information not
field checked. Map edited 1979



10° 00' 00" NORTH
1000 METERS
To place on the projected North American Datum 1983
move the projection lines 30 meters south and
43 meters west as shown by dashed corner ticks



SCALE 1:24,000
CONTINUOUS INTERVAL 10 FEET
NATIONAL MAGNETIC VERTICAL DATUM OF 1979

ROAD CLASSIFICATION
Primary highway, all weather. Light-duty road, all weather
hard surface
Unimproved road, fair or dry
weather
State Route

JAL NW, N. MEX.
R3207 5-1010/00/5/7.5
1968
PHOTOREVISED 1979
DATA 1948 & 1979-1980/00/5/7.5

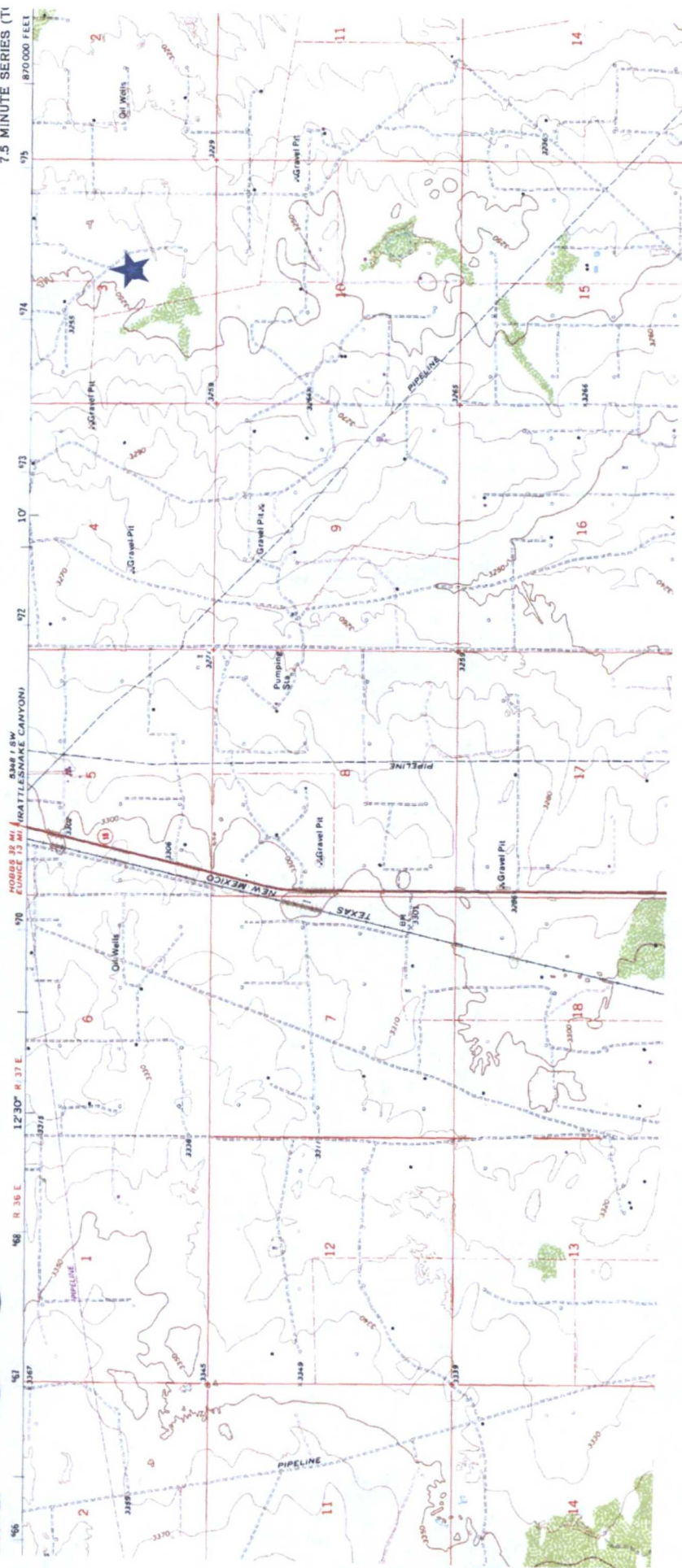


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

GH Mattix Federal Battery

Oxy

JAL NW QUADR
NEW MEXICO-L
7.5 MINUTE SERIES (T1
870,000 FEET



Laboratory Analytical Results Summary
GH Mattix Federal Battery

Analyte	Method	Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
		Date	8/27/13	8/27/13	8/27/13	8/27/13
			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		1220	144	80	<16.0
GRO	TPH 8015M		<10.0	<200	<10.0	<10.0
DRO	TPH 8015M		10.2	557	376	<10.0

Analyte	Method	Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
		Date	8/27/13	8/27/13	8/27/13	8/27/13
			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		1040	144	80	<16.0
GRO	TPH 8015M		<10.0	<100	<50.0	<10.0
DRO	TPH 8015M		39	416	192	<10.0

Analyte	Method	Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
		Date	8/27/13	8/27/13	8/27/13	8/27/13
			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		800	144	160	<16.0
GRO	TPH 8015M		<50.0	<50.0	<50.0	<10.0
DRO	TPH 8015M		<50.0	407	344	<10.0

September 04, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GH MATTIX FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H302075-01)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 99.5 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141


Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	09/03/2013	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.0	200	3.28		
DRO >C10-C28	10.2	10.0	09/02/2013	ND	187	93.5	200	2.26		

Surrogate: 1-Chlorooctane 89.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H302075-02)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	09/01/2013	ND	192	96.0	200	3.28		
DRO >C10-C28	557	200	09/01/2013	ND	187	93.5	200	2.26		

Surrogate: 1-Chlorooctane 64.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H302075-03)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 99.8 % 61.3-142
Surrogate: Toluene-d8 99.6 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	376	10.0	09/02/2013	ND	187	93.5	200	2.26	

Surrogate: 1-Chlorooctane 112 % 65.2-140
Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H302075-04)

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	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 101 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	<10.0	10.0	09/01/2013	ND	187	93.5	200	2.26	

Surrogate: 1-Chlorooctane 98.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H302075-05)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 99.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	09/03/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

Surrogate: 1-Chlorooctane 98.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H302075-06)

BTEX 82608		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 99.6 % 61.3-142
Surrogate: Toluene-d8 98.9 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00	


TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	416	100	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 76.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H302075-07)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272		
DRO >C10-C28	192	50.0	09/02/2013	ND	186	92.9	200	0.528		

Surrogate: 1-Chlorooctane 85.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H302075-08)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<10.0	10.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 88.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

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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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H302075-09)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<50.0	50.0	09/02/2013	ND	186	92.9	200	0.528	

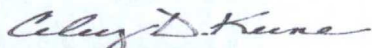
Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

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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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H302075-10)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 105 % 61.3-142
Surrogate: Toluene-d8 99.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

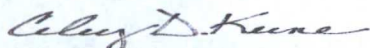
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

Surrogate: 1-Chlorooctane 88.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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Fax To: (575) 397-0397

Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H302075-11)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/03/2013	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272		
DRO >C10-C28	344	50.0	09/02/2013	ND	186	92.9	200	0.528		

Surrogate: 1-Chlorooctane 87.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H302075-12)
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	08/30/2013	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 104 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00	

TPH 8015M
mg/kg
Analyzed By: AR/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<10.0	10.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST																																			
Project Manager: Cliff Brunson		Company:																																					
Address: P.O. Box 805		Attn:																																					
City: Hobbs		Address: SAME																																					
Phone #: 575-397-6388		City:																																					
Fax #: 575-397-0397		State:																																					
Project #:		Zip:																																					
Project Name: GHT Matrix Fed Bmt.		Phone #:																																					
Project Location:		Fax #:																																					
Sampler Name: Pedro Hernandez																																							
FOR LAB USE ONLY																																							
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		CHLORIDE TPH BTEX									
H302075		SP1011		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1015		1									
2		SP1021		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1033		1									
3		SP1031		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1047		1									
4		SP1041		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1059		1									
5		SP2011		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1138		1									
6		SP2021		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1230		1									
7		SP2031		1		1		1		1		1		1		1		1		1		1		1		8-27-13		1110		1									
8		SP2041		1		1		1		1		1		1		1		1		1		1		1		8-27-13		125		1									
9		SP3011		1		1		1		1		1		1		1		1		1		1		1		8-27-13		200		1									
10		SP3021		1		1		1		1		1		1		1		1		1		1		1		8-27-13		220		1									
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Relinquished By:		Date: 8-28-13		Time: 3:40		Received By:		Date: 8-28-13		Time: 3:40		REMARKS:																											
Delivered By: (Circle One)		Cool		Intact		Sample Condition		CHECKED BY:																															
Sampler - UPS - Bus - Other:		4.60		No		No		No		No																													

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

#54

Kathy Purvis

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Thursday, October 03, 2013 2:12 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY-GH Mattix Federal Battery-Remediation Plan

Cliff

RE: OXY-GH Mattix Federal Battery-Remediation Plan

The remediation plan is approved as discussed at the September 25, 2013 meeting as detailed in your email below.

Please include all attachments to the email below in your closure report. Thank you.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leking@state.nm.us

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Wednesday, October 02, 2013 3:27 PM
To: Leking, Geoffrey R, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-GH Mattix Federal Battery-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy GH Mattix Federal Battery site. I have attached the site diagram and lab data summary table that we used in our discussion. As mutually agreed, Oy will excavate to a depth of 1 foot across the entire leak area as shown on the diagram. The site will then be backfilled with clean soil.

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

Thanks, Cliff

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:
1324 W. Marland St.
Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Van Curen, Jennifer <jvancure@blm.gov>
Sent: Sunday, October 06, 2013 8:08 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY-GH Mattix Federal Battery-Remediation Plan

Cliff,

You are good to go.

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5905
CELL - 575-361-0042
FAX - 575-234-5927

On Thu, Oct 3, 2013 at 10:39 AM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:
Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoffrey Leking of the NMOCDC. Oxy will excavate to a depth of 1 foot across the entire leak area as shown on the diagram. The site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

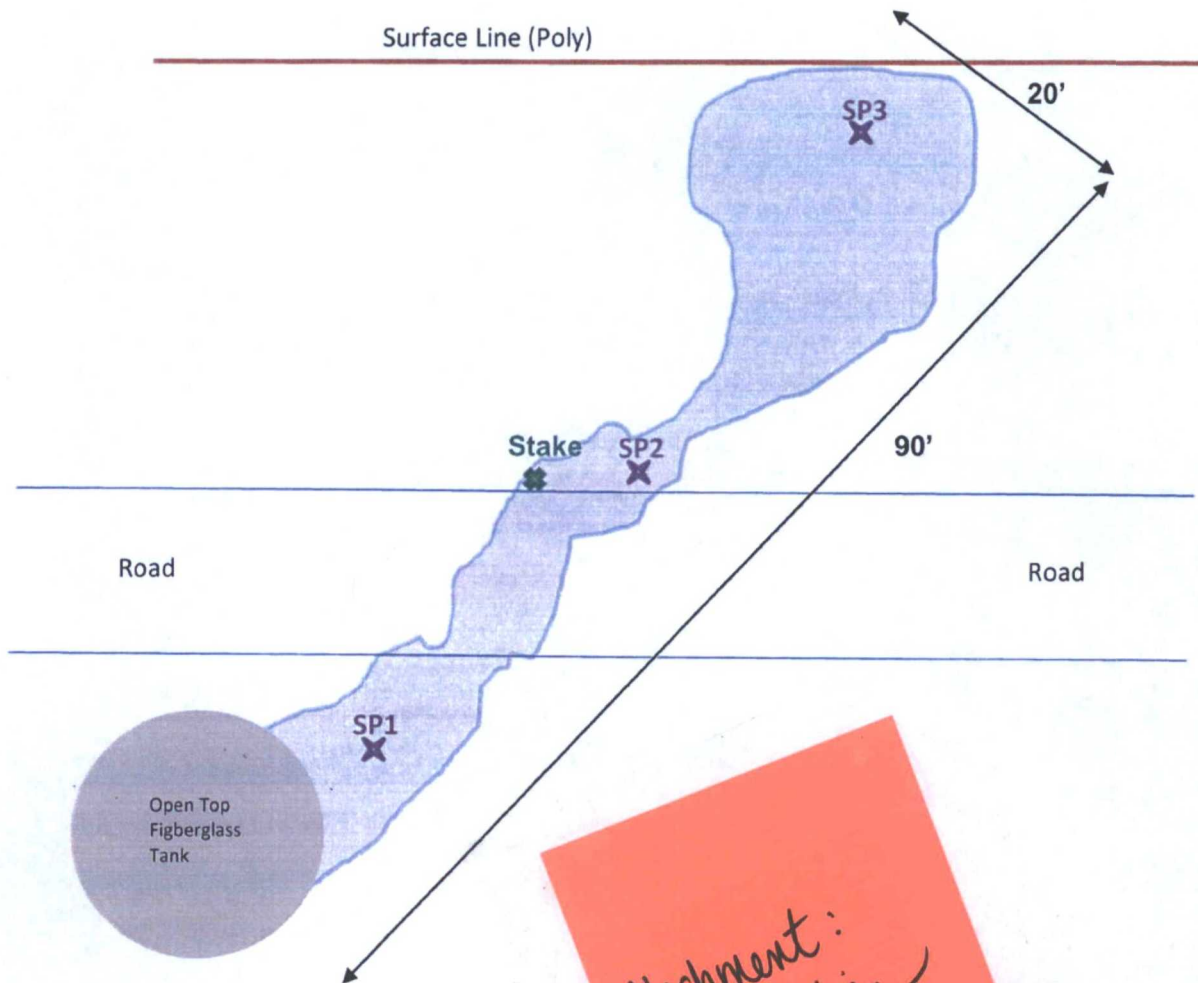
Thanks, Cliff

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:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Oxy
GH Mattix Federal Battery



Section 3, T24S, R37E
Lea County, NM
N 32.24385° W 103.14959°

BBC International, Inc.	
Oxy	
GH Mattix Federal Btry	
Date: 08/26/2013	DRWG by: JG
NOT TO SCALE	File: Oxy 2013



Groundwater Plot

Oxy GH Mattix Federal Battery

County
Lea Co.

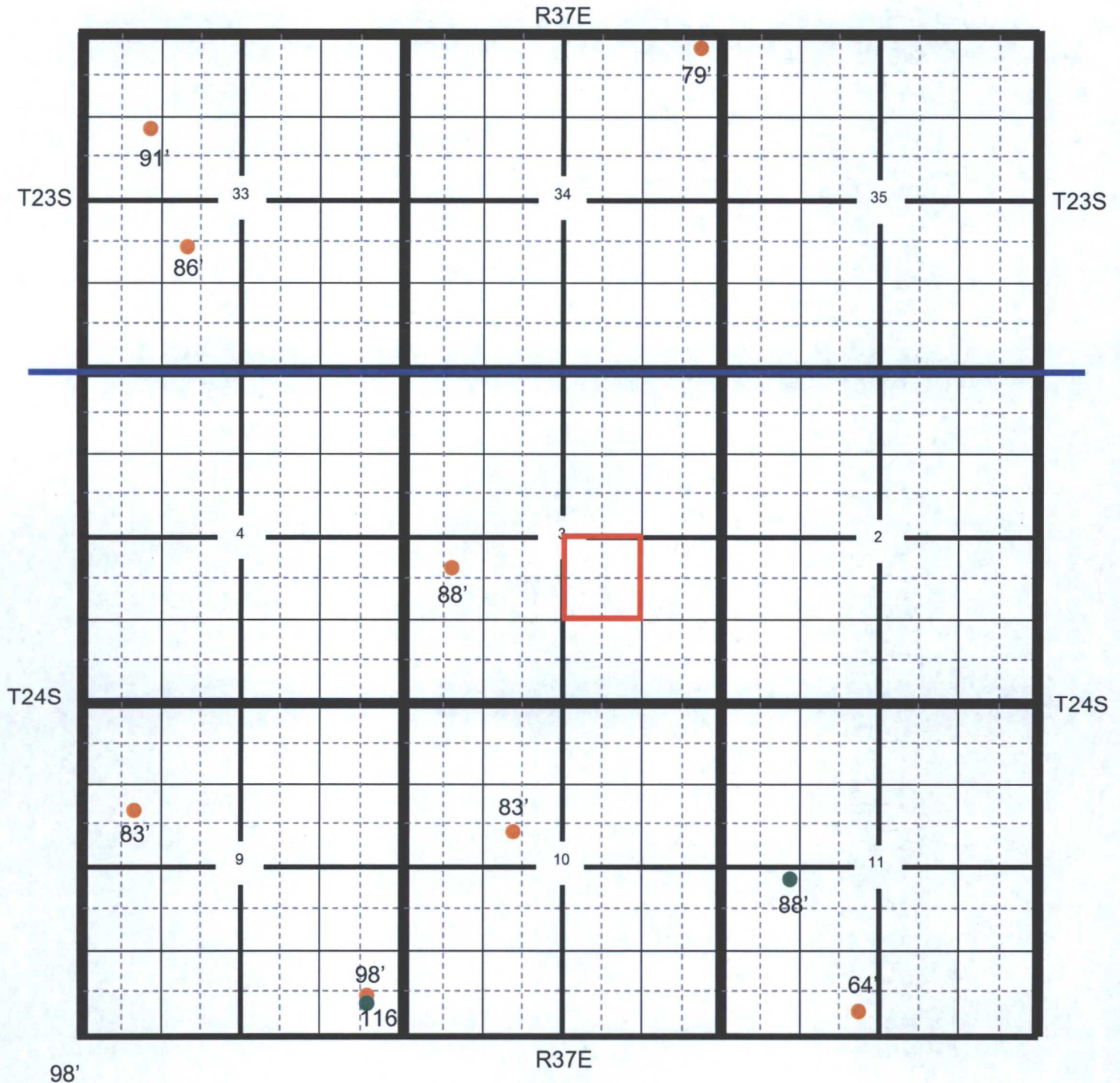
Unit Letter
J

Section
3

Township
24S

Range
37E

Trend Map <100'



Location

OCD

USGS

SEO

All Databases

Section Quarters

Oxy GH Mattix Federal Btry

County
Lea Co.

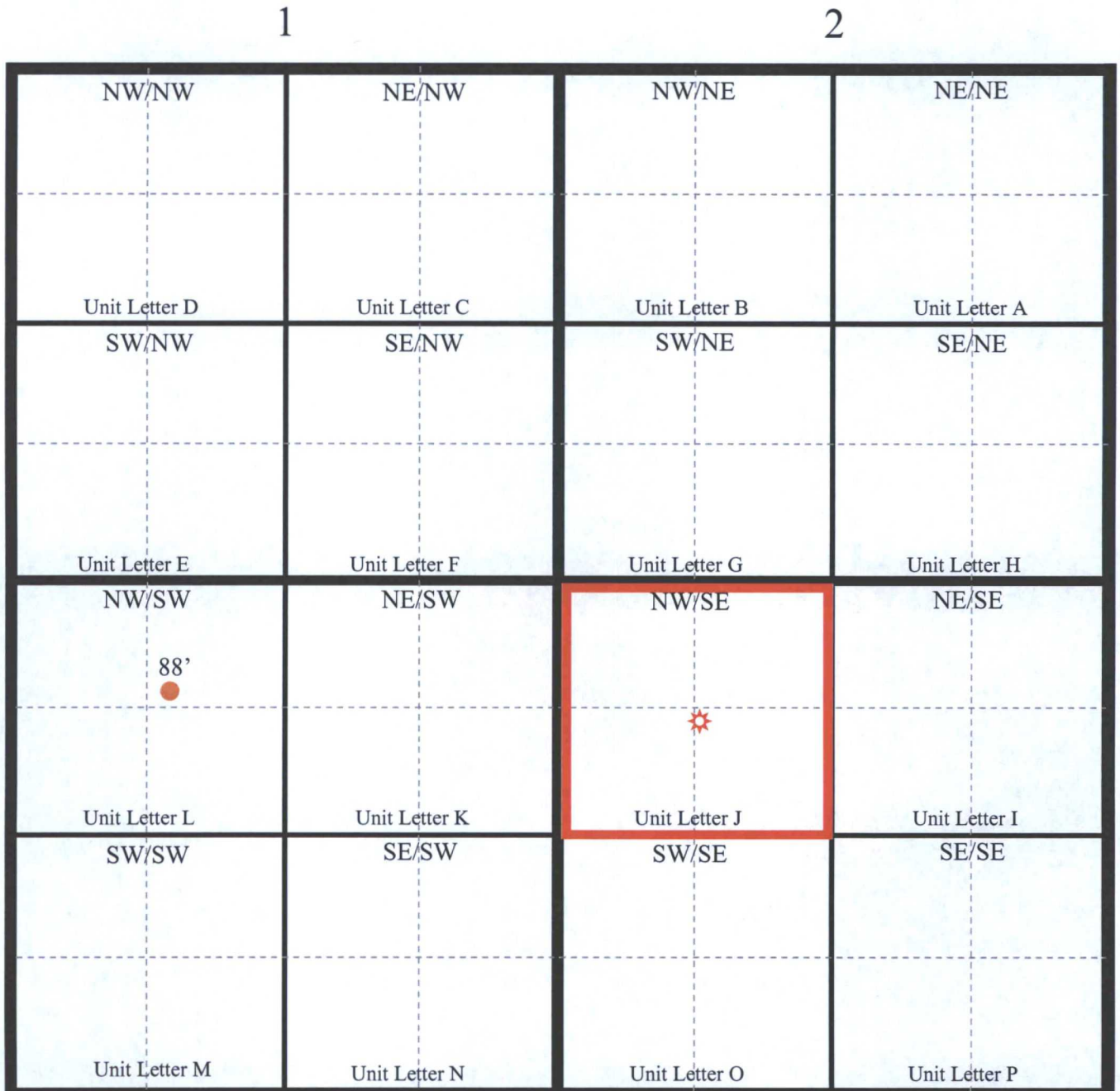
Unit Letter
J

Section
3

Township
24S

Range
37E

Trend Map <100'



3

4

⚙ Location

● OCD

● USGS

● SEO

● All Databases

Laboratory Analytical Results Summary
GH Mattix Federal Battery

Analyte	Method	Sample		SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
		Date		8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 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			1220	144	80	<16.0
GRO	TPH 8015M			<10.0	<200	<10.0	<10.0
DRO	TPH 8015M			10.2	557	376	<10.0

Analyte	Method	Sample		SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
		Date		8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 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			1040	144	80	<16.0
GRO	TPH 8015M			<10.0	<100	<50.0	<10.0
DRO	TPH 8015M			39	416	192	<10.0

Analyte	Method	Sample		SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
		Date		8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 mg/Kg	8/27/13 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			800	144	160	<16.0
GRO	TPH 8015M			<50.0	<50.0	<50.0	<10.0
DRO	TPH 8015M			<50.0	407	344	<10.0

September 04, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GH MATTIX FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,



Caley 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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H302075-01)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 99.5 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	09/03/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

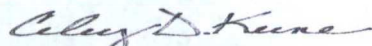
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	10.2	10.0	09/02/2013	ND	187	93.5	200	2.26	

Surrogate: 1-Chlorooctane 89.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H302075-02)
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	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 107 % 65.7-141

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: AR/						S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/01/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	557	200	09/01/2013	ND	187	93.5	200	2.26	

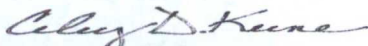
Surrogate: 1-Chlorooctane 64.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H302075-03)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 99.8 % 61.3-142

Surrogate: Toluene-d8 99.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						


Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H302075-04)
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	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 103 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00	

TPH 8015M
mg/kg
Analyzed By: AR/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/01/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	<10.0	10.0	09/01/2013	ND	187	93.5	200	2.26	

Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H302075-05)

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	08/30/2013	ND	2.31	116	2.00	1.37	
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 99.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.0	200	3.28	
DRO >C10-C28	39.0	10.0	09/02/2013	ND	187	93.5	200	2.26	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H302075-06)

BTEX 82608			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 99.6 % 61.3-142
Surrogate: Toluene-d8 98.9 % 71.3-129
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	416	100	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 76.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H302075-07)

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	08/30/2013	ND	2.31	116	2.00	1.37		
Toluene*	<0.050	0.050	08/30/2013	ND	2.21	111	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	2.11	106	2.00	3.06		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	6.33	106	6.00	1.84		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272		
DRO >C10-C28	192	50.0	09/02/2013	ND	186	92.9	200	0.528		

Surrogate: 1-Chlorooctane 85.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H302075-08)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 103 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<10.0	10.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 88.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 90.1 % 63.6-154

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Fax To: (575) 397-0397

Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H302075-09)

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	08/30/2013	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55	
Total BTEX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 101 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

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	09/03/2013	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<50.0	50.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 88.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.3 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H302075-10)

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	08/30/2013	ND	2.07	104	2.00	3.29	
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00	
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92	
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55	
Total BTX	<0.300	0.300	08/30/2013	ND					

Surrogate: Dibromofluoromethane 105 % 61.3-142
Surrogate: Toluene-d8 99.7 % 71.3-129
Surrogate: 4-Bromofluorobenzene 106 % 65.7-141


Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/03/2013	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	407	50.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 88.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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Fax To: (575) 397-0397

Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H302075-11)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 102 % 61.3-142
Surrogate: Toluene-d8 100 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/03/2013	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	09/02/2013	ND	192	96.2	200	0.272		
DRO >C10-C28	344	50.0	09/02/2013	ND	186	92.9	200	0.528		

Surrogate: 1-Chlorooctane 87.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Received: 08/28/2013
Reported: 09/04/2013
Project Name: GH MATTIX FED BATTERY
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H302075-12)

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	08/30/2013	ND	2.07	104	2.00	3.29		
Toluene*	<0.050	0.050	08/30/2013	ND	1.97	98.7	2.00	3.00		
Ethylbenzene*	<0.050	0.050	08/30/2013	ND	1.87	93.5	2.00	2.92		
Total Xylenes*	<0.150	0.150	08/30/2013	ND	5.61	93.5	6.00	2.55		
Total BTEX	<0.300	0.300	08/30/2013	ND						

Surrogate: Dibromofluoromethane 104 % 61.3-142
Surrogate: Toluene-d8 102 % 71.3-129
Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/03/2013	ND	400	100	400	0.00	

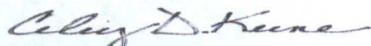
TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2013	ND	192	96.2	200	0.272	
DRO >C10-C28	<10.0	10.0	09/02/2013	ND	186	92.9	200	0.528	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

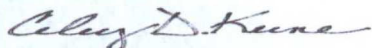
Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:			
Address: P.O. Box 805		Attn:			
City: Hobbs		Address: SAME			
Phone #: 575-397-6388		City:			
Fax #: 575-397-0397		State:			
Project #:		Zip:			
Project Name: Gt Mattix Fed Bmt.		Phone #:			
Project Location:		Fax #:			
Sampler Name: Paged Henderson		PRESERV			
FOR LAB USE ONLY		SAMPLING			
Lab I.D.		Sample I.D.			
H302075		H302075			
2		1			
3		2			
4		3			
5		4			
6		5			
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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