

Closure Report

RECEIVED

APR 04 2013

Site Description	
Site Name:	Sand Dunes 34 Federal #2 CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L H, Section 34, T23S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.26154° W 103.75952°

Release Data	
Date of Release:	10/08/2012
Type of Release:	Oil
Source of Release:	Open valve on circulating pump
Volume of Release:	140 bbls
Volume Recovered:	80 bbls

Remediation Specifications	
Remediation Parameters:	Excavate the impacted soil inside the battery area to a depth of 2 feet. Complete a surface scrape and restoration to normal site conditions of the area outside the battery which contained overspray. Backfill the site with clean soil.
Remediation Activities:	01/17/2013 to 2/01/2013

Plan Sent to OCD:	01/11/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/11/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/15/2012	Email from Cliff Brunson to Jennifer VanCuren
BLM Approval of Plan:	12/19/2012	Email from Jennifer VanCuren to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed and sent 10/22/2012
Final C-141	Signed and sent 03/06/2013
Site Diagram	October 2012
Groundwater Plot	300'
TOPO Maps	October 2012
Lab Summary	10/29/2012 to 10/30/2012 and 01/25/2013
Lab Analysis	10/29/2012 to 10/30/2012 and 01/25/2013
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.	04/03/2013

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

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

Form C-141
Revised October 10, 2003

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

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	Sand Dunes 34 Federal #2 CTB	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-27239

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	34	23S	31E	2310'	North	660'	East	Eddy

Latitude N 32.26154° Longitude W 103.75352°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	80 bbls
Source of Release	Open valve on circulating pump	Date and Hour of Occurrence	10/08/2012 @ 8:00 am	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?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	10/08/2012 @ 10:19 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse			

RECEIVED

APR 04 2013

NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The valve on the circulating pump was left open which caused 140 bbls of water to spill onto the ground. 80 bbls of water were recovered via vacuum truck. The valve was closed to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.*

The area affected by the 140 bbls leak is approximately 70' x 40'. Remediation will be performed in accordance with an OCD and BLM approved remediation 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.

Signature:

Printed Name: Chancey Summers

Title: HES Specialist

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

Date: 10-22-12

Phone: (575) 397-8216

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
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Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Sand Dunes 34 Federal #2 CTB	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		Lease No.	API#30-015-27239
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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
H	34	23S	31E	2310'	North	660'	East	Eddy

Latitude N 32.26154° Longitude W 103.75352°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	140 bbls	Volume Recovered	80 bbls
Source of Release	Open valve on circulating pump	Date and Hour of Occurrence	10/08/2012 @ 8:00 am	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?	Mike Bratcher- OCD; James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	10/08/2012 @ 10:19 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.*

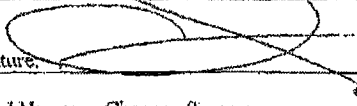
Describe Cause of Problem and Remedial Action Taken.*

The valve on the circulating pump was left open which caused 140 bbls of water to spill onto the ground. 80 bbls of water were recovered via vacuum truck. The valve was closed to prevent further leaking.

Describe Area Affected and Cleanup Action Taken.*

The area affected by the 140 bbls leak is approximately 70' x 40'. Remediation was completed in accordance with the remediation plan approved by NMOCD via email from Mike Bratcher on 01/11/2013 and approved by the BLM via email from Jennifer Van Curen on 12/19/2012.

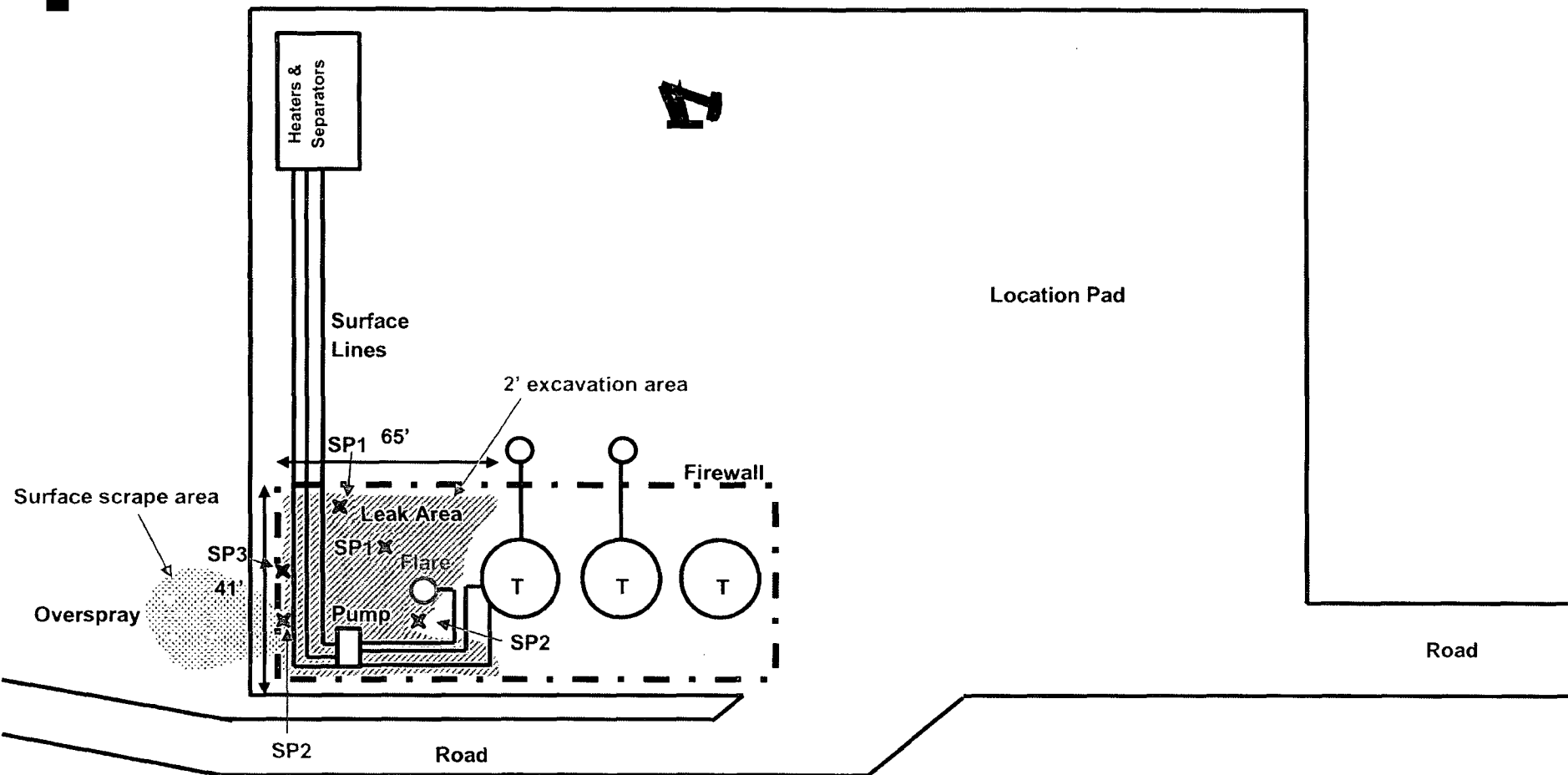
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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		
Printed Name: Chancey Summers	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 3-6-13	Phone: (575) 397-8216		





* Attach Additional Sheets If Necessary



Oxy
Sand Dunes 34 Federal #2 CTB



U/L H, Section 34, T23S, R31E
2310' FNL and 660' FEL
Eddy County, NM
N 32.26154° W 103.75952°
API# 30-015-27239 NM#43744

-  Leak Area- 2' excavation area
-  Overspray Area- Surface scrape area
-  1st Sampling event
-  2nd Sampling event

BBC International, Inc.	
Oxy	
Sand Dunes 34 Fed #2 CTB	
Date: 10/16/2012	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



Groundwater Plot

Oxy Sand Dunes 34 Federal #2 CTB

County
Eddy County

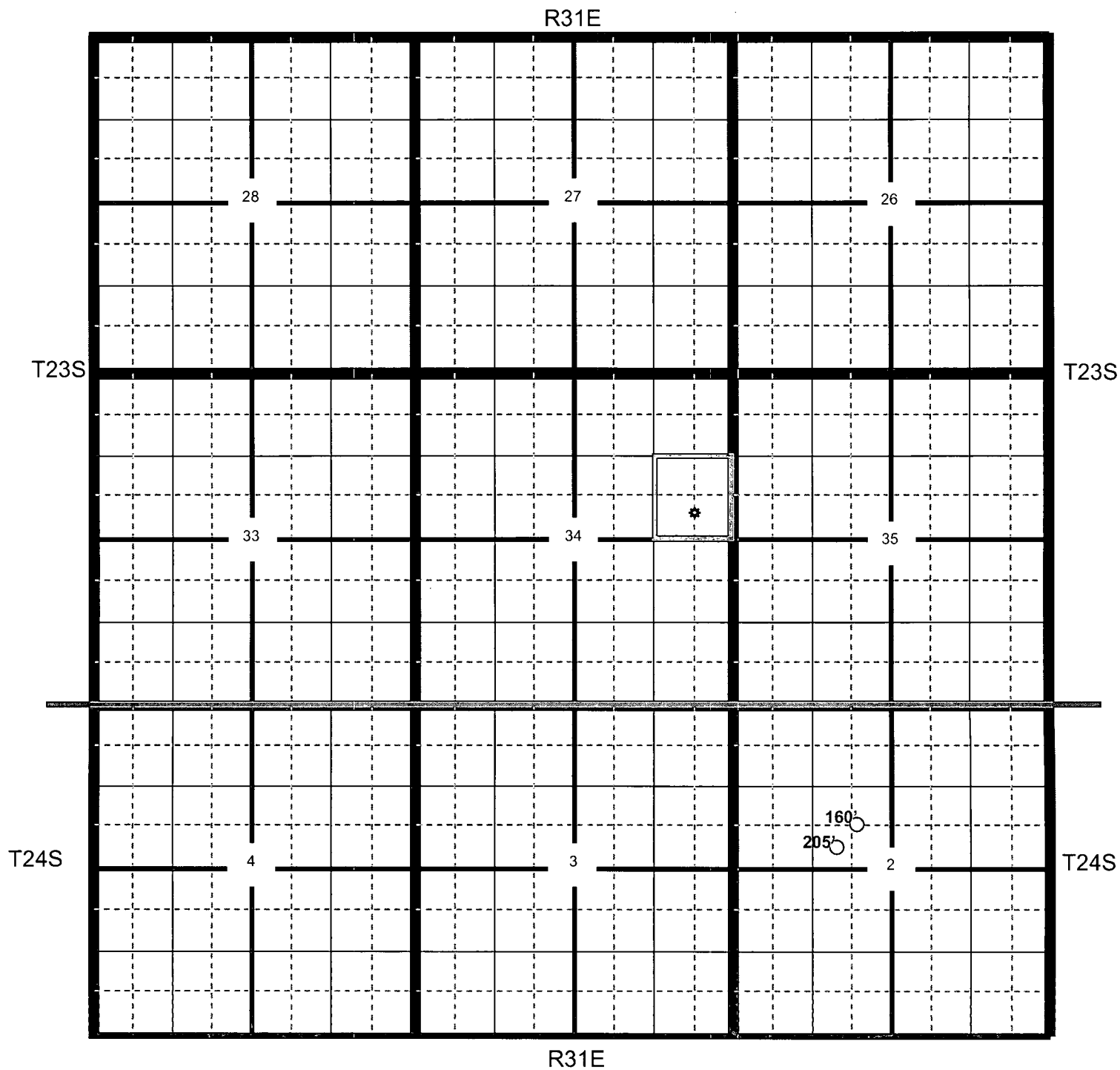
Unit Letter
H

Section
34

Township
23S

Range
31E

Trend Map 300'




Oxy Sand Dunes 34 Federal #2 CTB

County Eddy Unit Letter H Section 34 Township 23S Range 31E

Trend Map 300'

1

2

NW/NW None	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE 
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

 Location

 OCD

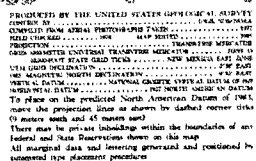
 USGS

 SEO

 All Databases

LOS MEDAÑOS QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check. 3

THIS MAP COMPLEIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80215
OR RESTON, VIRGINIA 22092

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1	2	3	4	5	6	7	8	9	10	11	12	13</																																																																																							

ROAD LEGEND

Improved Road
Unimproved Road
Trail

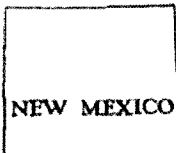
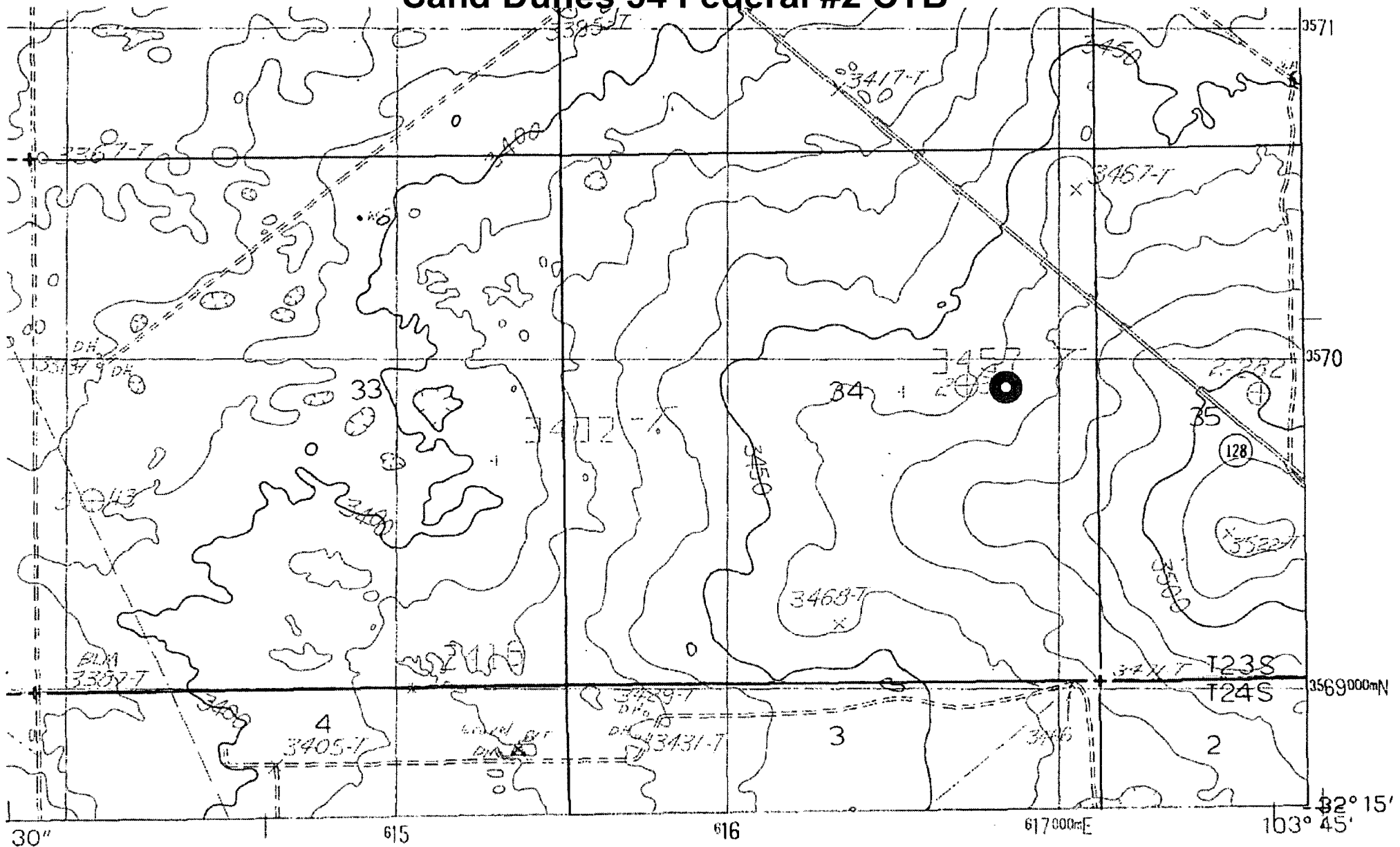
Interstate Route U.S. Route State Route

LOS MEDAÑOS, NEW MEXICO
PROVISIONAL EDITION 1985

REFERENCES

Oxy

Sand Dunes 34 Federal #2 CTB



INTERIOR-GEOLOGICAL SURVEY, RESTON, VIRGINIA-1985

ROAD LEGEND

Laboratory Analytical Results Summary
OXY, Sand Dunes 34 Fed #2 CTB

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 8'	SP1 @ 13'
Analyte	Method	Date	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12	10/29/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.88	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		6.33	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		8.71	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		4880	784	48	256	192	864	122
GRO	TPH 8015M		597	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		9010	741	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 8'	SP2 @ 13'
Analyte	Method	Date	10/30/12	10/30/12	10/30/12	10/30/12	10/30/12	10/30/12	10/30/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.064	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.805	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.58	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		8.82	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		12.3	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		4880	656	528	192	224	832	80
GRO	TPH 8015M		584	<10.0	10	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6840	709	435	<10.0	<10.0	<10.0	<10.0

**Laboratory Analytical Results Summary
Sand Dunes 34 Federal #2**

<i>Confirmation</i>		Sample	SP1 @ 5'
Analyte	Method	Date	1/25/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		816
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		35

<i>Confirmation</i>		Sample	SP2 @ 5'
Analyte	Method	Date	1/25/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		736
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

<i>Confirmation</i>		Sample	SP3 @ 5'
Analyte	Method	Date	1/25/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		784
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

November 08, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/02/12 10:35.

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.

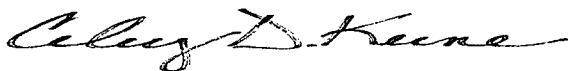
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: (505) 397-0397

Received: 11/02/2012
Reported: 11/08/2012
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H202674-01)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	0.500	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	1.88	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	6.33	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTEX	8.71	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 721 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	11/06/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	597	50.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	9010	50.0	11/05/2012	ND	217	108	200	1.00	

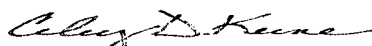
Surrogate: 1-Chlorooctane 155 % 65.2-140

Surrogate: 1-Chlorooctadecane 236 % 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: (505) 397-0397

 Received: 11/02/2012
 Reported: 11/08/2012
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202674-02)

BTEx 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTEX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 131 % 89.4-126

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	11/06/2012	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	741	10.0	11/05/2012	ND	217	108	200	1.00	

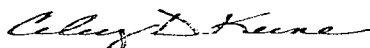
Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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: (505) 397-0397

Received:	11/02/2012	Sampling Date:	10/29/2012
Reported:	11/08/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 34 FED #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 2' (H202674-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTEX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

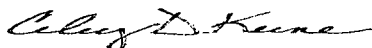
Surrogate: 1-Chlorooctane 92.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/02/2012
Reported: 11/08/2012
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H202674-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTEX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	11/06/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

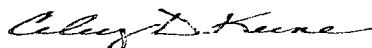
Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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: (505) 397-0397

 Received: 11/02/2012
 Reported: 11/08/2012
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H202674-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78		
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18		
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02		
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19		
Total BTEX	<0.300	0.300	11/06/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/06/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

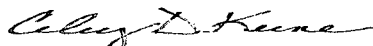
Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.3 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	11/02/2012	Sampling Date:	10/29/2012
Reported:	11/08/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 34 FED #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 8' (H202674-06)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2012	ND	1.85	92.7	2.00	9.78	
Toluene*	<0.050	0.050	11/06/2012	ND	2.07	104	2.00	8.18	
Ethylbenzene*	<0.050	0.050	11/06/2012	ND	2.08	104	2.00	8.02	
Total Xylenes*	<0.150	0.150	11/06/2012	ND	6.35	106	6.00	7.19	
Total BTX	<0.300	0.300	11/06/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	11/06/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/05/2012	ND	194	96.9	200	4.39	
DRO >C10-C28	<10.0	10.0	11/05/2012	ND	217	108	200	1.00	

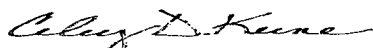
Surrogate: 1-Chlorooctane 88.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/02/2012
Reported: 11/08/2012
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 13' (H202674-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4	
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7	
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0	
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5	
Total BTEX	<0.300	0.300	11/07/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	122	16.0	11/06/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

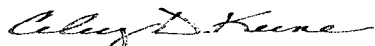
Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 63.6-154

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
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 Fax To: (505) 397-0397

 Received: 11/02/2012
 Reported: 11/08/2012
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/30/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H202674-08)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.064	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4	
Toluene*	0.805	0.050	11/07/2012	ND	2.01	101	2.00	15.7	
Ethylbenzene*	2.58	0.050	11/07/2012	ND	2.02	101	2.00	16.0	
Total Xylenes*	8.82	0.150	11/07/2012	ND	6.14	102	6.00	15.5	
Total BTX	12.3	0.300	11/07/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 811 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	11/06/2012	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	584	50.0	11/06/2012	ND	185	92.7	200	1.73	
DRO >C10-C28	6840	50.0	11/06/2012	ND	201	100	200	2.84	

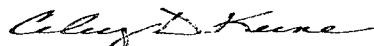
Surrogate: 1-Chlorooctane 157 % 63.2-140

Surrogate: 1-Chlorooctadecane 205 % 63.6-154

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Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/02/2012
Reported: 11/08/2012
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202674-09)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4	
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7	
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0	
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5	
Total BTEX	<0.300	0.300	11/07/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 134 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/06/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2012	ND	185	92.7	200	1.73	
DRO >C10-C28	709	10.0	11/06/2012	ND	201	100	200	2.84	

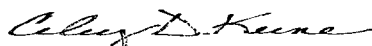
Surrogate: 1-Chlorooctane 82.9 % 63.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 11/02/2012
 Reported: 11/08/2012
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/30/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H202674-10)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4	
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7	
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0	
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5	
Total BTEX	<0.300	0.300	11/07/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/07/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2012	ND	185	92.7	200	1.73	
DRO >C10-C28	435	10.0	11/06/2012	ND	201	100	200	2.84	

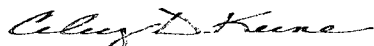
Surrogate: 1-Chlorooctane 83.6 % 63.2-140

Surrogate: 1-Chlorooctadecane 102 % 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: (505) 397-0397

Received:	11/02/2012	Sampling Date:	10/30/2012
Reported:	11/08/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 34 FED #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 3' (H202674-11)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4	
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7	
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0	
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5	
Total BTEX	<0.300	0.300	11/07/2012	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/07/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/06/2012	ND	185	92.7	200	1.73		
DRO >C10-C28	<10.0	10.0	11/06/2012	ND	201	100	200	2.84		

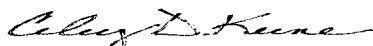
Surrogate: 1-Chlorooctane 86.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 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: (505) 397-0397

Received: 11/02/2012
Reported: 11/08/2012
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 10/30/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H202674-12)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4		
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7		
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0		
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5		
Total BTX	<0.300	0.300	11/07/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/07/2012	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					

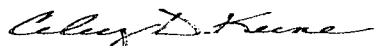
Surrogate: 1-Chlorooctane 85.4 % 63.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

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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: (505) 397-0397

Received:	11/02/2012	Sampling Date:	10/30/2012
Reported:	11/08/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 34 FED #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 8' (H202674-13)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4		
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7		
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0		
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5		
Total BTEX	<0.300	0.300	11/07/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	11/07/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/06/2012	ND	185	92.7	200	1.73		
DRO >C10-C28	<10.0	10.0	11/06/2012	ND	201	100	200	2.84		

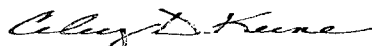
Surrogate: 1-Chlorooctane 85.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.8 % 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: (505) 397-0397

 Received: 11/02/2012
 Reported: 11/08/2012
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/30/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 13' (H202674-14)

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/07/2012	ND	1.80	90.2	2.00	15.4		
Toluene*	<0.050	0.050	11/07/2012	ND	2.01	101	2.00	15.7		
Ethylbenzene*	<0.050	0.050	11/07/2012	ND	2.02	101	2.00	16.0		
Total Xylenes*	<0.150	0.150	11/07/2012	ND	6.14	102	6.00	15.5		
Total BTEx	<0.300	0.300	11/07/2012	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/07/2012	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/06/2012	ND	185	92.7	200	1.73	
DRO >C10-C28	<10.0	10.0	11/06/2012	ND	201	100	200	2.84	

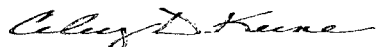
Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

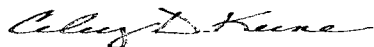
Notes and Definitions

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.
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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Celest D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST																						
Project Manager: Cliff Brunson		P.O. #:																								
Address: P.O. Box 805		Company:																								
City: Hobbs State: NM Zip: 88241		Attn:																								
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:																								
Project #: Project Owner: Oxy		City:																								
Project Name: Sand Dunes 34 Fed #2 CTB		State: Zip:																								
Project Location: Eddy County, NM		Phone #:																								
Sampler Name: Roger Hernandez		Fax #:																								
Lab I.D.	Sample I.D.	FOR LAB USE ONLY	MATRIX	PRESERV	SAMPLING																					
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
1	SP1 @ SURFACE	61										10/29/12	11:08 AM	PH	BTEX	CI										
2	SP1 @ 1'	61										10/29/12	11:25 AM													
3	SP1 @ 2'	61										10/29/12	12:19 PM													
4	SP1 @ 3'	61										10/29/12	12:54 PM													
5	SP1 @ 4'	61										10/29/12	1:09 PM													
6	SP1 @ 8'	61										10/29/12	2:09 PM													
7	SP1 @ 13'	61										10/29/12	3:16 PM													
8	SP2 @ SURFACE	61										10/30/12	9:30 AM													
9	SP2 @ 1'	61										10/30/12	9:50 AM													
10	SP2 @ 2'	61										10/30/12	10:15 AM													

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Relinquished By:	Date: 10/30/12 Time: 5:00 PM	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: 10/30/12 Time: 10:35 AM	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool / Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	REMARKS:

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



101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: <i>[Signature]</i>		Date: <i>10/30/12</i> Time: <i>5:00pm</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>		Date: <i>11/2/12</i> Time: <i>10:30</i>	Received By: <i>Jodi Benson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> <i>30</i> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) <i>[Initials]</i>	REMARKS:	

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

February 04, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 34 FED #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/28/13 8:10.

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.

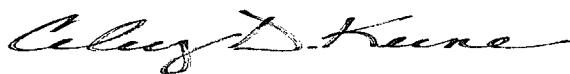
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 01/28/2013
Reported: 02/04/2013
Project Name: SAND DUNES 34 FED #2 CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/25/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H300231-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2013	ND	2.35	117	2.00	7.02		
Toluene*	<0.050	0.050	02/01/2013	ND	2.32	116	2.00	7.08		
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.31	115	2.00	7.07		
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.95	116	6.00	7.46		
Total BTEX	<0.300	0.300	02/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/31/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/29/2013	ND	222	111	200	0.449	
DRO >C10-C28	35.0	10.0	01/29/2013	ND	187	93.5	200	1.23	


Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 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: 01/28/2013
 Reported: 02/04/2013
 Project Name: SAND DUNES 34 FED #2 CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/25/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 5' (H300231-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2013	ND	2.35	117	2.00	7.02		
Toluene*	<0.050	0.050	02/01/2013	ND	2.32	116	2.00	7.08		
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.31	115	2.00	7.07		
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.95	116	6.00	7.46		
Total BTEX	<0.300	0.300	02/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	01/31/2013	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/29/2013	ND	222	111	200	0.449	
DRO >C10-C28	<10.0	10.0	01/29/2013	ND	187	93.5	200	1.23	

Surrogate: 1-Chlorooctane 88.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154

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Celest 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:	01/28/2013	Sampling Date:	01/25/2013
Reported:	02/04/2013	Sampling Type:	Soil
Project Name:	SAND DUNES 34 FED #2 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 5' (H300231-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2013	ND	2.35	117	2.00	7.02		
Toluene*	<0.050	0.050	02/01/2013	ND	2.32	116	2.00	7.08		
Ethylbenzene*	<0.050	0.050	02/01/2013	ND	2.31	115	2.00	7.07		
Total Xylenes*	<0.150	0.150	02/01/2013	ND	6.95	116	6.00	7.46		
Total BTEX	<0.300	0.300	02/01/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

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	01/31/2013	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/29/2013	ND	222	111	200	0.449	
DRO >C10-C28	<10.0	10.0	01/29/2013	ND	187	93.5	200	1.23	

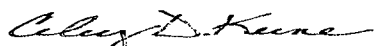
Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

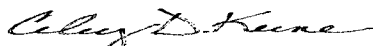
Notes and Definitions

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



(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 1-28-13 Time: 8:10		Received By: 		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date: Time:		Received By:		REMARKS: * Project name changed as per Jennifer. 2/4/13. Ch	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		58 Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) 			

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

#26

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Friday, January 11, 2013 1:41 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy-Sand Dunes 34 Federal #2 Central Tank Battery

Reference: OXY USA * Sand Dunes 34 Fed 2 (CTB) * 30-015-27239 * H-34-23s-31e * Eddy County, New Mexico
NMOCD Reference Number: 2RP-1337 * Date of release: 10/8/12

Cliff,

Your proposal for remediation of the above referenced release is approved. Please proceed on your schedule.

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, 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 P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, January 11, 2013 11:50 AM
To: Bratcher, Mike, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy-Sand Dunes 34 Federal #2 Central Tank Battery

Mike,

On behalf of Oxy, BBC is submitting this remediation plan for the spill that occurred at the Sand Dunes 34 Fed #2 Central Tank Battery. I have attached a site diagram that depicts the spill area, sample points, and the areas to be remediated. Along with that there is a groundwater plot and lab data summary table. In addition, the original lab data is also attached. In addition, I have attached the approval from Jennifer Van Curen of the BLM for this plan.

Based on the analytical data, Oxy proposes to excavate the impacted soil inside the battery area to a depth of 2 feet (blue shading on drawing). Outside of the battery is an area that was impacted by over spray and this area will be surface scraped and restored to normal site conditions green shading on drawing). The excavation will then be backfilled with the appropriate material.

If you will please review at your earliest convenience and reply back via e-mail with the OCD's approval, it would be greatly appreciated. The site will then be scheduled to be remediated. If you have any questions, please contact me.

Thank you,

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.
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Subject: Re: Oxy-Sand Dunes 34 Fed #2 Central Tank Battery
Date: Wednesday, December 19, 2012 7:45:25 AM MT
From: Van Curen, Jennifer
To: Cliff P. Brunson
CC: C J Summers, Ken Swinney, Jennifer Gilkey, Kathy Purvis, James Amos

approved

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5909
CELL - 575-361-0042
FAX - 575-234-5927

On Sat, Dec 15, 2012 at 7:06 PM, Cliff P. Brunson <cbrunson@bbcinternational.com> wrote:

Jennifer,

On behalf of Oxy, BBC is submitting this remediation plan for the spill that occurred at the Sand Dunes 34 Fed #2 Central Tank Battery. I have attached a site diagram that depicts the spill area, sample points, and the areas to be remediated. Along with that there is a groundwater plot and lab data summary table. In addition, the original lab data is also attached.

Based on the analytical data, Oxy proposes to excavate the impacted soil inside the battery area to a depth of 2 feet (blue shading on drawing). Outside of the battery is an area that was impacted by over spray and this area will be surface scraped and restored to normal site conditions green shading on drawing). The excavation will then be backfilled with the appropriate material.

If you will please review at your earliest convenience and reply back via e-mail with the BLM's approval, it would be greatly appreciated. The site will then be scheduled to be remediated. If you have any questions, please contact either myself or C J Summers with Oxy.

Thank you,

Cliff

Cliff P. Brunson, CEI, CRS
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World-Wide Environmental Specialists
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