

# Closure Report

## Site Description

Site Name:	Sand Dunes 28 Federal #1 SWD Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L J, Section 28, T23S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.27385° W 103.78036°

## Release Data

Dates of Release:	09/08/12, 10/01/12, 03/24/13, 04/22/13, 10/06/14, & 10/23/14
Type of Release:	Oil and produced water
Source of Release:	Varies per leak, please see enclosed initial C-141s
Volume of Release:	Varies per leak, please see enclosed initial C-141s
Volume Recovered:	Varies per leak, please see enclosed initial C-141s

## Remediation Specifications

Remediation Parameters:	Excavate the spill according to the attached aerial photo/diagrams. Berm the location and block the southernmost road. Backfill the site with clean soil.
Remediation Activities:	01/21/2016 to 06/24/2016

Plan Sent to OCD:	11/24/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/25/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/23/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	11/23/2015	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141s	Signed 9/8/12, 10/25/12, 3/27/13, 6/6/13, 10/10/14, & 11/13/14
Final C-141s	Signed 6/29/16
Site Diagram	Varies according to the leak dates
Groundwater Plot	200'-250'
TOPO Maps	Varies according to the leak dates
Lab Summary	See enclosed copies
Lab Analysis	See enclosed copies
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.

06/29/2016

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 28 Federal #1 SWD	Facility Type	Salt Water Disposal

Surface Owner	BLM	Mineral Owner		Lease No.	API#30-015-26194
---------------	-----	---------------	--	-----------	------------------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

### NATURE OF RELEASE

Type of Release	Oil and Produced water	Volume of Release	2 bbls oil / 370 bbls water	Volume Recovered	2 bbls oil / 340 bbls water
Source of Release	Tank overflow due to pump failure from short in alarm system	Date and Hour of Occurrence	09/08/2012 @ 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?	James Amos- BLM, Mike Bratcher- OCD		
By Whom?	Chancey Summers	Date and Hour	9/10/2012 @ 9:55 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.\*

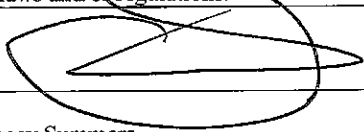
Describe Cause of Problem and Remedial Action Taken.\*

A weather storm caused the alarm to short out and the pump to fail which made the tank overflow. 2 bbls of oil and 370 bbls of water leaked onto the ground. 2 bbls of oil and 340 bbls of water were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was on location approximately 100' x 100' and in the pasture approximately 3' x 200'. 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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: Sr. HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date:	Phone: (575)397-8216		

\* Attach Additional Sheets If Necessary

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 28 Federal #1 SWD	Facility Type	Salt Water Disposal
Surface Owner	BLM	Mineral Owner	
		Lease No.	API#30-015-26194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy

Latitude 32.27385°

Longitude 103.78036°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	50 bbls	Volume Recovered	0 bbls
Source of Release	Leak on West Triplex pump	Date and Hour of Occurrence	10/01/2012 @ 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?	James Amos- BLM, Mike Bratcher- OCD		
By Whom?	Chancey Summers	Date and Hour	10/22/2012 @ 10:55 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

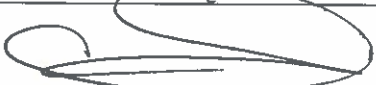
Describe Cause of Problem and Remedial Action Taken.\*

A leak on the west triplex pump caused 50 bbls of water to leak onto the ground. 0 bbls were recovered. The pump was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was approximately 3' x 200'. 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Chancey Summers	Approved by District Supervisor:		
Title: Sr. HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>10-25-12</u> Phone: (575)397-8216			

\* Attach Additional Sheets If Necessary



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 28 Federal #1 SWD	Facility Type	SWD

Surface Owner	BLM	Mineral Owner		Lease No.	NM 40659
---------------	-----	---------------	--	-----------	----------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E					Eddy

Latitude N 32.27641° Longitude W 103.78047°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	650 bbls	Volume Recovered	590 bbls
Source of Release	Tank overflow due to broken triplex pump	Date and Hour of Occurrence	03/24/2013	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 Mike Bratcher-OCD		
By Whom?	Chancey Summers	Date and Hour	03/25/2013 @ 9:08 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.\*

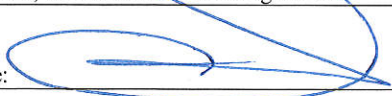
Describe Cause of Problem and Remedial Action Taken.\*

A broken triplex pump caused a tank to overflow spilling 650 bbls of produced water onto the ground. 590 bbls of produced water were recovered via vacuum truck and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.\*

A broken triplex pump caused a tank to overflow spilling 650 bbls of produced water onto the ground. 590 bbls of produced water were recovered via vacuum truck and the pump was repaired. Remediation will be performed in accordance with an approved plan from the NMOCD and the BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: <u>3-27-13</u> Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



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 28 Federal #1 SWD	Facility Type	SWD
Surface Owner	BLM	Mineral Owner	
		Lease No.	NM 40659

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E					Eddy

Latitude N 32.27641° Longitude W 103.78047°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	300 bbls	Volume Recovered	0 bbls
Source of Release	Power failure/ Tank overflow	Date and Hour of Occurrence	04/22/2013	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?	James Amos-BLM and Mike Bratcher-OCD		
By Whom?	Chancey Summers	Date and Hour	04/22/2013 @ 11:03 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.\*

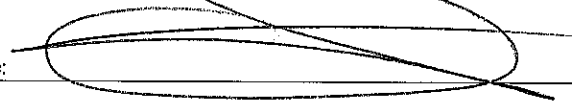
Describe Cause of Problem and Remedial Action Taken.\*

A power failure at the site caused 300 bbls of produced water to leak onto the ground. No fluids were recovered and the power was restored to the site.

Describe Area Affected and Cleanup Action Taken.\*

The area affected is 400' x 100'. A power failure at the site caused 300 bbls of produced water to leak onto the ground. No fluids were recovered and the power was restored to the site. Remediation will be performed in accordance with an approved plan from the NMOCD and the BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: 06/06/2013 Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

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 28 Federal #1 SWD Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E					Eddy

Latitude N 32.27336° Longitude W 103.78031°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	67 bbls	Volume Recovered	0 bbls
Source of Release	Nipple on discharge header at the east injection pump was off	Date and Hour of Occurrence	10/06/2014	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-NMOCD, Sol Hughes-BLM		
By Whom?	Kathy Purvis @ BBC International, Inc.	Date and Hour	10/07/2014 @ 11:46 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.\*

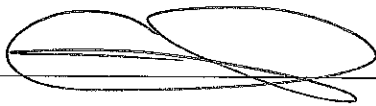
Describe Cause of Problem and Remedial Action Taken.\*

The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Advisor		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: <u>10-10-14</u> Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

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 28 Federal #1 SWD Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E					Eddy

Latitude N 32.27336° Longitude W 103.78031°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	22 bbls	Volume Recovered	0 bbls
Source of Release	Nipple on discharge header at the west injection pump was off	Date and Hour of Occurrence	10/23/2014	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, Heather Patterson-NMOCD, Sol Hughes-BLM		
By Whom?	Kathy Purvis @ BBC International, Inc.	Date and Hour	10/24/2014 @ 8:39 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.\*

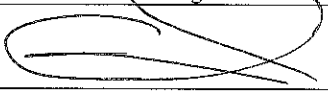
Describe Cause of Problem and Remedial Action Taken.\*

The nipple on the discharge header at the west injection pump was off allowing 22 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 12' x 100' on location and 5' x 100' off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Chancey Summers		Approved by District Supervisor:	
Title: HES Advisor		Approval Date:	Expiration Date:
E-mail Address: Chancey.Summers@oxy.com		Conditions of Approval:	
Date: <u>11-13-14</u> Phone: (575) 397-8216		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary



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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27385° Longitude W 103.78036°

#### NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	2 bbls oil, 370 bbls produced water	Volume Recovered	2 bbls oil, 340 bbls produced water
Source of Release	Tank overflow due to pump failure from a short in the alarm system	Date and Hour of Occurrence	09/08/2012	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-NMOCD; James Amos- BLM		
By Whom?	Chancey Summers, Oxy Permian	Date and Hour	09/10/2012 @ 9:55 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.\*

A weather storm caused the alarm to short out and the pump to fail which made the tank overflow causing 2 bbls of oil and 370 bbls of produced water to leak onto the ground. A vacuum truck recovered approximately 2 bbls of oil and 340 bbls of produced water.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 100' x 100' on location and 3' x 200' in the pasture.. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-29-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary

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

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27385° Longitude W 103.78036°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	50 bbls	Volume Recovered	0 bbls
Source of Release	West Triplex pump was leaking	Date and Hour of Occurrence	10/01/2012	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-NMOCD; James Amos- BLM		
By Whom?	Chancey Summers, Oxy Permian	Date and Hour	10/22/2012 @ 10:55 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.\*

A leak on the west triplex pum caused 50 bbls of water to leak onto the ground. No fluids were recovered. The pump was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 3' x 200'. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-29-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	API No. 30-015-26194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27641° Longitude W 103.78047°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	650 bbls	Volume Recovered	590 bbls
Source of Release	Tank overflow due to broken triplex pump	Date and Hour of Occurrence	03/24/2013	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?	Mike Bratcher-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers, Oxy Permian	Date and Hour	03/25/2013 @ 9:08 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.\*

A broken triplex pump caused a tank to overflow spilling 650 bbls of produced water onto the ground. A vacuum truck recovered 590 bbls of produced water and the pump was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 350' x 75' both on and off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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

Signature:	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-29-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary



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

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27641° Longitude W 103.78047°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	300 bbls	Volume Recovered	0 bbls
Source of Release	Tank overflow due to power failure	Date and Hour of Occurrence	04/22/2013	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?	Mike Bratcher-NMOCD; James Amos- BLM		
By Whom?	Chancey Summers, Oxy Permian	Date and Hour	04/22/2013 @ 11:03 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.\*

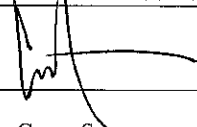
Describe Cause of Problem and Remedial Action Taken.\*

A power failure at the site caused 300 bbls of produced water to leak onto the ground. No fluids were recovered and the power was restored to the site.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 400' x 100'. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6-29-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary

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

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27336° Longitude W 103.78031°

### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	67 bbls	Volume Recovered	0 bbls
Source of Release	Nipple on discharge header at the east injection pump was off	Date and Hour of Occurrence	10/06/2014	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-NMOCD; Sol Hughes- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	10/07/2014 @ 11:46 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.\*

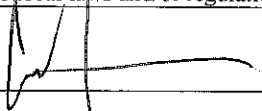
Describe Cause of Problem and Remedial Action Taken.\*

The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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: 		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey.Summers@oxy.com		Conditions of Approval:	
Date: 6-29-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Sand Dunes 28 Federal #1 SWD Battery	Facility Type	SWD/Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-26194

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	28	23S	31E	1980'	South	1980'	East	Eddy County, NM

Latitude N 32.27336° Longitude W 103.78031°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	22 bbls	Volume Recovered	0 bbls
Source of Release	Nipple on discharge header at the west injection pump was off	Date and Hour of Occurrence	10/23/2014	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, Heather Patterson-NMOCD; Sol Hughes- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	10/24/2014 @ 8:39 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 nipple on the discharge header at the west injection pump was off allowing 22 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 12' x 100' on location and 5' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and by Shelly Tucker of the BLM via email on 11/23/2015.

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: Casey Summers

Title: NM Environmental Advisor

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

Date: 6-29-16 Phone: (575) 513-8289

#### OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date:

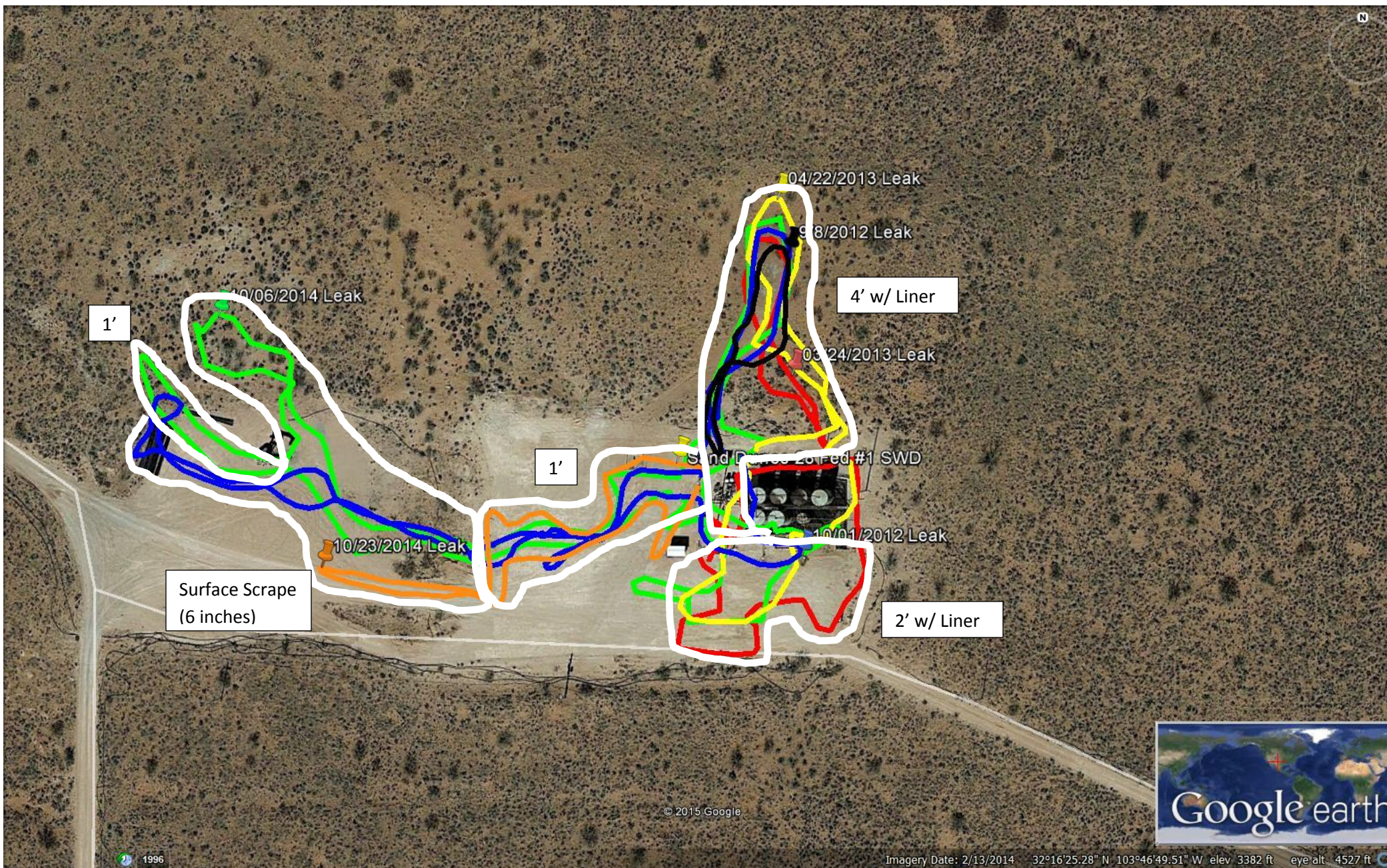
Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary



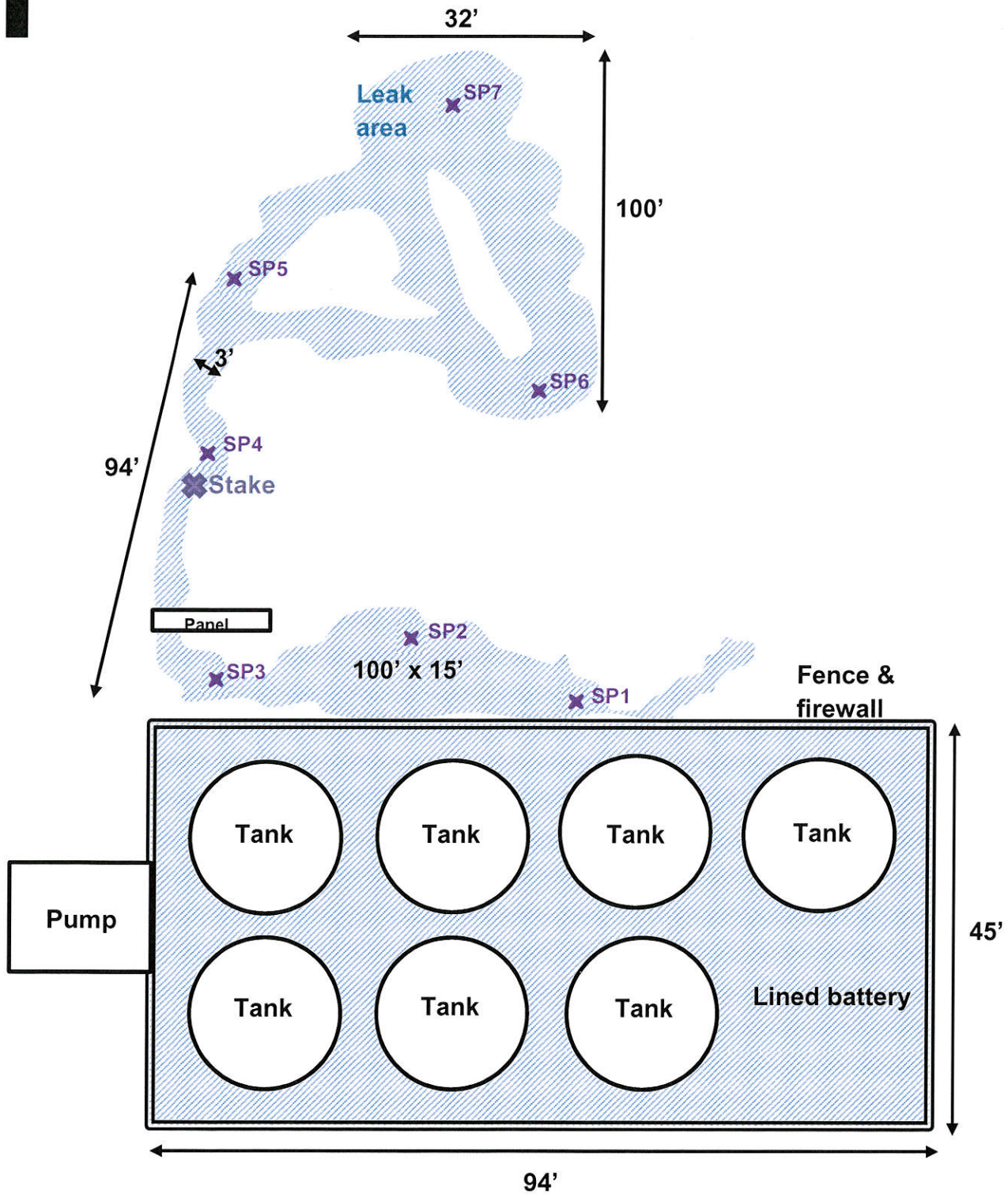






Oxy

Sand Dunes 28 Federal #1 SWD



BBC International, Inc.

Oxy

Sand Dunes 28 Fed #1 SWD

Date: 09/20/12

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012

U/L J, Section 28, T23S, R31E  
1980' FSL & 1980' FEL  
Eddy County, NM  
N 32.27385° W 103.78036°  
API# 30-015-26194



Oxy

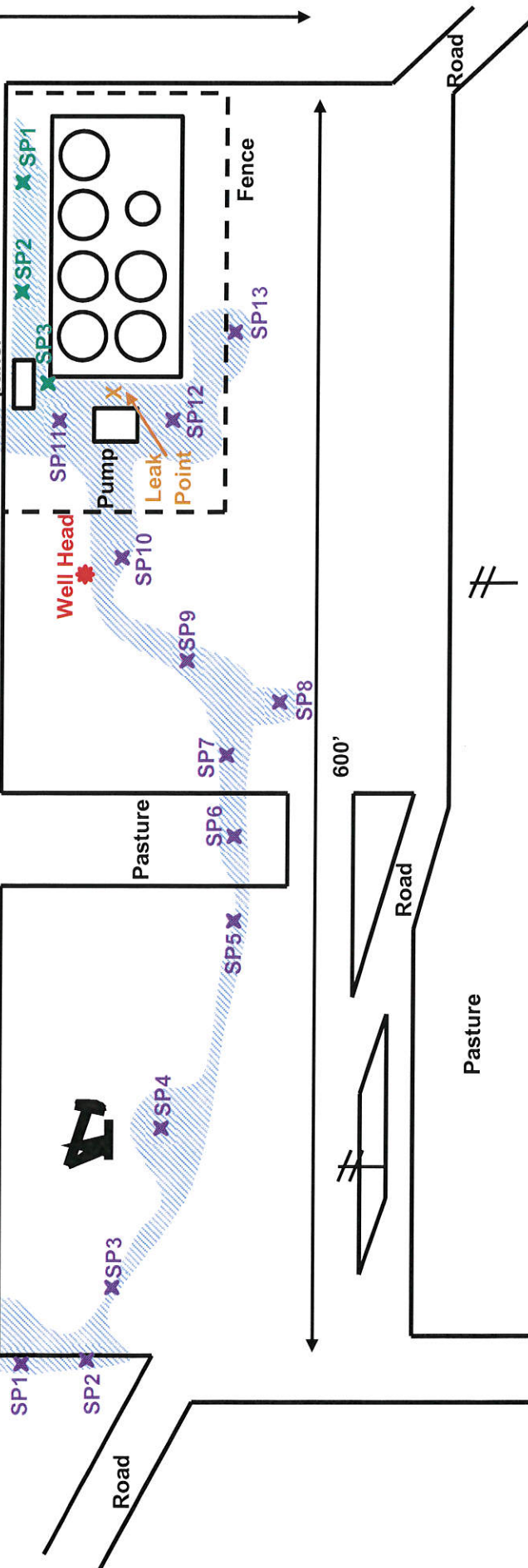
# Sand Dunes 28 Federal #1

Pasture

Pure Gold D #11

Sand Dunes 28-1

140'



U/L J, Section 28, T23S, R31E  
1980' FSL & 1980' FEL  
Eddy County, NM  
N 32.27385° W 103.78036°  
API# 30-015-26194

BBC International, Inc.

Oxy

## Sand Dunes 28 Federal #1

Date: 11/5/12 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2012



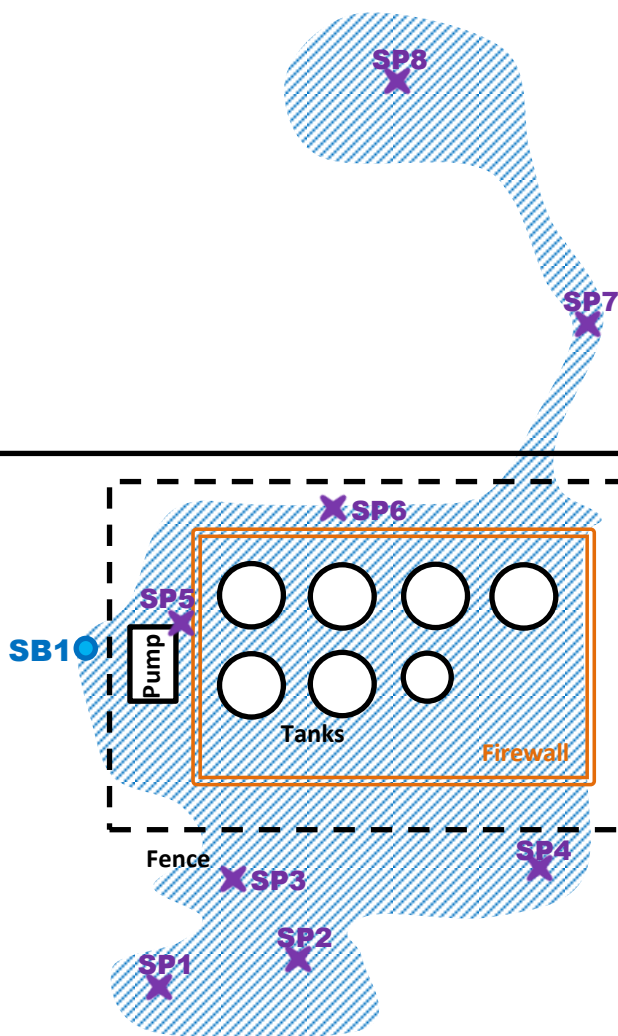


Oxy

# Sand Dunes 28 Federal #1 SWD

Pasture

Location Pad



Road

U/L J, Section 28, T23S, R31E  
Eddy County, NM

N 32.27641° W 103.78047°

BBC International, Inc.

Oxy

Sand Dunes 28 Federal #1 SWD

Date: 05/07/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013

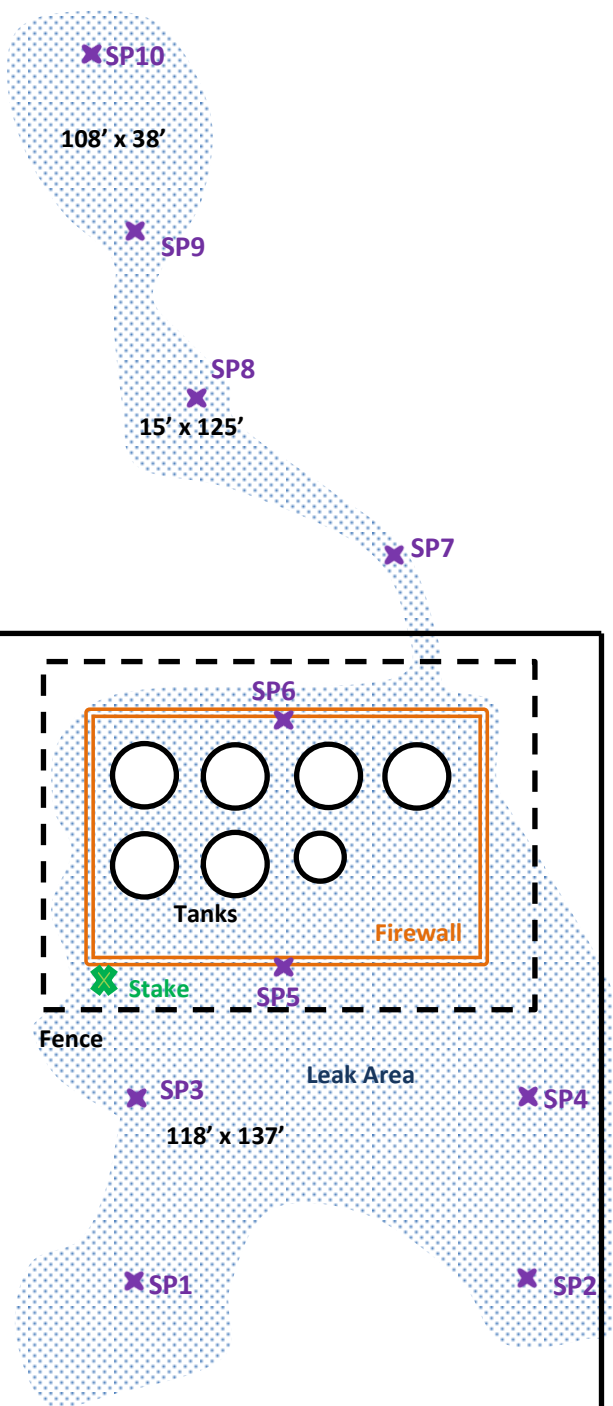


Oxy

# Sand Dunes 28 Federal #1 SWD

Pasture

Location Pad



U/L J, Section 28, T23S, R31E  
Eddy County, NM

N 32.27641° W 103.78047°

BBC International, Inc.

Oxy

Sand Dunes 28 Federal #1 SWD

Date: 03/28/2013

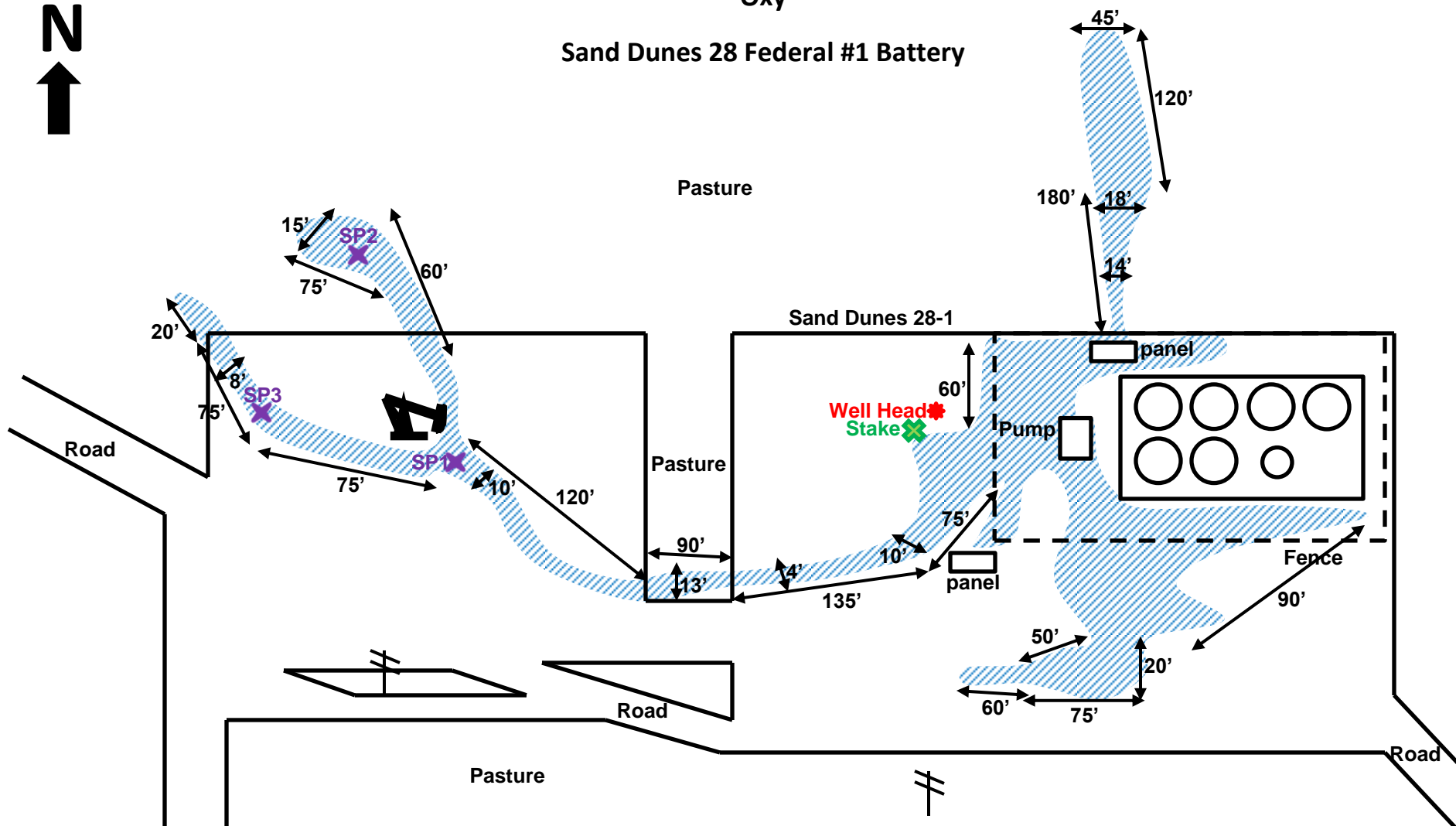
DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



Oxy  
Sand Dunes 28 Federal #1 Battery



U/L J, Section 28, T23S, R31E  
Eddy County, NM  
N 32.27361° W 103.78067° at stake  
API# 30-015-26194

BBC International, Inc.

Oxy

Sand Dunes 28 Federal #1

Date: 10/10/14

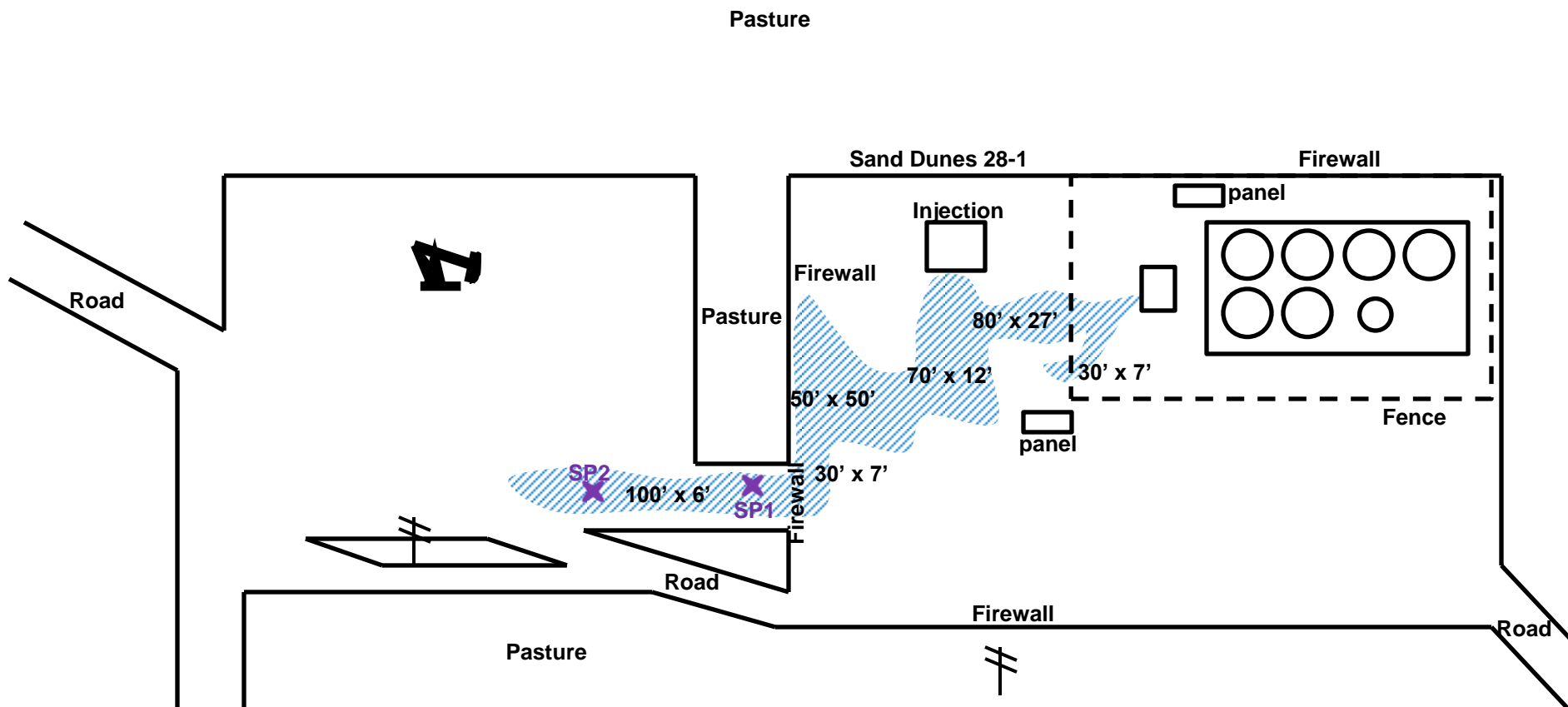
DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2014



Oxy  
Sand Dunes 28 Federal #1 SWD Battery



U/L J, Section 28, T23S, R31E  
Eddy County, NM  
N 32.27361° W 103.78067° at stake  
API# 30-015-26194

BBC International, Inc.	
Oxy	
Sand Dunes 28 Federal #1	
Date: 11/14/14	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014



# Groundwater Plot

Oxy Sand Dunes 28 Fed #1 SWD

County  
Eddy

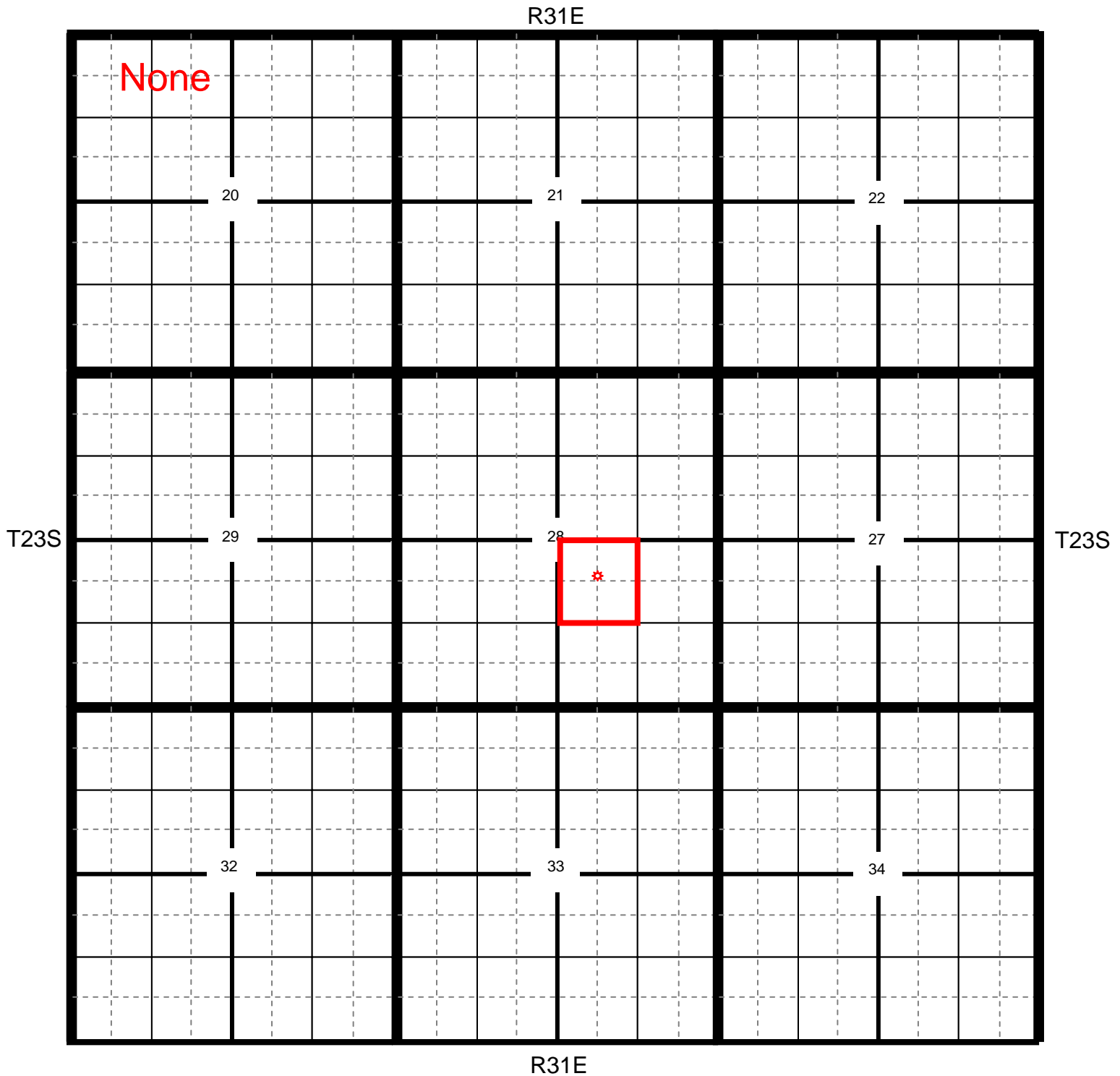
Unit Letter  
J

Section  
28

Township  
23S

Range  
31E

Trend Map 200'-250'



★ Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Sand Dunes 28 Federal #1 SWD

<b>County</b> Eddy	<b>Unit Letter</b> J	<b>Section</b> 28	<b>Township</b> 23S	<b>Range</b> 31E
-----------------------	-------------------------	----------------------	------------------------	---------------------

Trend Map 200'-250'

1

2

NW/NW <b>None</b>	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

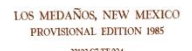
3

4



# Battery

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY







**Laboratory Analytical Results Summary**  
**OXY, Sand Dunes #28-1 SWD**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.134	0.174	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.401	1.03	0.345	<0.050
Total Xylenes	BTEX 8021B		2.05	8.04	2.63	<0.150
Chloride	SM4500Cl-B		1520	3520	1650	<16
GRO	TPH 8015M		422	638	56.8	<10.0
DRO	TPH 8015M		6170	6460	411	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.295	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.70	<0.150	<0.150
Chloride	SM4500Cl-B		3000	352	<16
GRO	TPH 8015M		36.9	<10.0	<10.0
DRO	TPH 8015M		876	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.199	<0.200	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.24	3.38	0.067	<0.050	<0.050
Total Xylenes	BTEX 8021B		10.8	17.0	0.280	<0.150	<0.150
Chloride	SM4500Cl-B		224	6880	1920	1360	<16
GRO	TPH 8015M		221	571	10.4	<10.0	<10.0
DRO	TPH 8015M		3960	6690	198	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 14'
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.730	0.149	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		5.09	2.16	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		57.4	13.3	0.216	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		6400	3800	3120	448	1360	48
GRO	TPH 8015M		1170	485	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6440	4340	206	27.3	13.3	<10.0

		Sample	SP5 @ 2'
Analyte	Method	Date	10/5/12
			mg/Kg
Benzene	BTEX 8021B		<0.200
Toluene	BTEX 8021B		0.238
Ethylbenzene	BTEX 8021B		4.18
Total Xylenes	BTEX 8021B		19.0
Chloride	SM4500Cl-B		5840
GRO	TPH 8015M		482
DRO	TPH 8015M		4920

		Sample	SP6 @ 2'
Analyte	Method	Date	10/8/12
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Chloride	SM4500Cl-B		832
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ 2'
Analyte	Method	Date	10/8/12
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.135
Ethylbenzene	BTEX 8021B		2.87
Total Xylenes	BTEX 8021B		15.5
Chloride	SM4500Cl-B		992
GRO	TPH 8015M		534
DRO	TPH 8015M		4840

**Laboratory Analytical Results Summary**  
**OXY, Sand Dunes #28-1 SWD**

**Laboratory Analytical Results Summary**  
**OXY, Sand Dunes 28 #1 2nd Leak**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<16.0	<16.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		832	32

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/30/12	10/30/12	10/30/12
			mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		2320	176	128

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		48	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		32	<16.0

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 3'	SP7 @ 6'
Analyte	Method	Date	10/30/12	10/30/12	10/30/12	10/30/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		92800	512	384	<16.0

		Sample	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 3'	SP8 @ 6'	SP8 @ 7'
Analyte	Method	Date	10/30/12	10/30/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		43200	656	336	208	<16.0

**Laboratory Analytical Results Summary**  
**OXY, Sand Dunes 28 #1 2nd Leak**

		Sample	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 3'	SP9 @ 5'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		58400	608	480	<16.0

		Sample	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 3'	SP10 @ 6'	SP10 @ 7'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		34000	23600	1570	416	176

		Sample	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 3'	SP11 @ 6'	SP11 @ 9'	SP11 @ 13'	SP11 @ 18'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		27600	10900	4560	2920	3000	4360	2480

		Sample	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 3'	SP12 @ 6'	SP12 @ 9'	SP12 @ 13'	SP12 @ 18'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		72000	4640	7280	9600	4320	3240	2120

		Sample	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 3'
Analyte	Method	Date	11/1/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2840	384	96



**Laboratory Analytical Results Summary  
Sand Dunes 28 Federal #1 SWD**

		Sample	SP1 @ 1'	SP1 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	N/A
<b>Toluene</b>	BTEX 8021B		<0.050	N/A
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	N/A
<b>Total Xylenes</b>	BTEX 8021B		<0.150	N/A
<b>Total BTEX</b>	BTEX 8021B		<0.300	N/A
<b>Chloride</b>	SM4500Cl-B		<b>1970</b>	128
<b>GRO</b>	TPH 8015M		<10.0	N/A
<b>DRO</b>	TPH 8015M		<10.0	N/A

		Sample	SP2 @ 1'	SP2 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>1630</b>	128

		Sample	SP3 @ 1'	SP3 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>176</b>	4400

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		N/A	<0.050
<b>Toluene</b>	BTEX 8021B		N/A	<0.050
<b>Ethylbenzene</b>	BTEX 8021B		N/A	<0.050
<b>Total Xylenes</b>	BTEX 8021B		N/A	<0.150
<b>Total BTEX</b>	BTEX 8021B		N/A	<0.300
<b>Chloride</b>	SM4500Cl-B		<b>208</b>	<b>160</b>
<b>GRO</b>	TPH 8015M		N/A	<10.0
<b>DRO</b>	TPH 8015M		N/A	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>320</b>	<b>160</b>

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	4/5/13	4/5/13
			mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>640</b>	<b>8720</b>

**Laboratory Analytical Results Summary  
Sand Dunes 28 Federal #1 SWD**

		<b>Sample</b>	<b>SP7 @ 6'</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	4/8/13
			<b>mg/Kg</b>
<b>Chloride</b>	SM4500CI-B		<b>1010</b>

		<b>Sample</b>	<b>SP8 @ 6'</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	4/8/13
			<b>mg/Kg</b>
<b>Chloride</b>	SM4500CI-B		<b>1100</b>

		<b>Sample</b>	<b>SP9 @ 6'</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	4/8/13
			<b>mg/Kg</b>
<b>Chloride</b>	SM4500CI-B		<b>10600</b>

		<b>Sample</b>	<b>SP10 @ 6'</b>
<b>Analyte</b>	<b>Method</b>	<b>Date</b>	4/8/13
			<b>mg/Kg</b>
<b>Chloride</b>	SM4500CI-B		<b>8960</b>

**Laboratory Analytical Results Summary  
Sand Dunes 28-1**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	7/30/13	7/30/13	7/30/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		5480	8240	112
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	7/30/13	7/30/13	7/30/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		1280	4800	256
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'
Analyte	Method	Date	7/30/13	7/31/13	7/31/13	7/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		7200	3680	2560	288
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		581	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	7/31/13	7/31/13	7/31/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		5440	928	144
GRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 9'
Analyte	Method	Date	7/30/13	7/31/13	7/31/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		6640	560	3920	14200
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		41.1	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'
Analyte	Method	Date	8/1/13	8/1/13	8/1/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		9800	9200	5460	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/1/13	8/1/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		3120	3680	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP8 @ 2'
Analyte	Method	Date	8/1/13
			mg/Kg
Chloride	SM4500Cl-B		1760

Laboratory Analytical Results Summary  
Sand Dunes 28-1

DRO	TPH 8015M		<10.0	n/a	n/a
-----	-----------	--	-------	-----	-----

**Laboratory Analytical Results Summary**  
**Sand Dunes 28 Federal #1 SWD Battery**

		Sample	SB1 @ 21'	SB1 @ 24'	SB1 @ 26'
Analyte	Method	Date	7/2/14	7/2/14	7/2/14
			mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>160</b>	<b>224</b>	<b>240</b>

**Laboratory Analytical Results Summary**  
**Sand Dunes 28 Federal #1 SWD Battery (10/06/14 leak)**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		26800	1140	320

		Sample	SP2 @ SURFACE
Analyte	Method	Date	7/15/15
			mg/Kg
Chloride	SM4500Cl-B		48

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		22000	2200	1640	1260	1070	272



**Laboratory Analytical Results Summary**  
**Sand Dunes 28 Federal #1 SWD Battery (10/23/14 leak)**

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		6960	752	128

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		3000	432	80

October 16, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/11/12 16:50.

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](http://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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H202481-01)**

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	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.134	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	0.401	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	2.05	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 174 % 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
<b>Chloride</b>	<b>1520</b>	16.0	10/15/2012	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	422	50.0	10/12/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	6170	50.0	10/12/2012	ND	205	103	200	10.9	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 180 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H202481-02)**

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	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<b>0.174</b>	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>1.03</b>	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>8.04</b>	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 174 % 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	<b>3520</b>	16.0	10/15/2012	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	<b>638</b>	50.0	10/13/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	<b>6460</b>	50.0	10/13/2012	ND	205	103	200	10.9	

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 5' (H202481-03)**

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	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>0.345</b>	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>2.63</b>	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 175 % 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	<b>1650</b>	16.0	10/15/2012	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	<b>56.8</b>	10.0	10/13/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	<b>411</b>	10.0	10/13/2012	ND	205	103	200	10.9	

Surrogate: 1-Chlorooctane 94.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.3 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 8' (H202481-04)**

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	10/13/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	10/15/2012	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	10/13/2012	ND	173	86.3	200	6.11		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	205	103	200	10.9		

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.2 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1' (H202481-05)**

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	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>0.295</b>	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>1.70</b>	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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	<b>3000</b>	16.0	10/15/2012	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	<b>36.9</b>	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<b>876</b>	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 95.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H202481-06)**

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	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	352	16.0	10/15/2012	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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.6 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 6' (H202481-07)**

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	10/15/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.5 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H202481-08)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.199	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	2.24	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	10.8	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 343 % 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	224	16.0	10/16/2012	ND	400	100	400	7.69	

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	221	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	3960	50.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 163 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H202481-09)**

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.200	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	3.38	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	17.0	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 159 % 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	6880	16.0	10/16/2012	ND	400	100	400	7.69	

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	571	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	6690	50.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 155 % 65.2-140

Surrogate: 1-Chlorooctadecane 193 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/04/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 6' (H202481-10)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>0.067</b>	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>0.280</b>	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	<b>1920</b>	16.0	10/16/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>10.4</b>	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<b>198</b>	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.9 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 8' (H202481-11)**

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	10/15/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 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	1360	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 85.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.7 % 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:	10/11/2012	Sampling Date:	10/04/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 3 @ 10' (H202481-12)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 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:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 1' (H202481-13)**

BTEx 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<b>0.730</b>	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>5.09</b>	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>57.4</b>	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 358 % 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	<b>6400</b>	16.0	10/16/2012	ND	400	100	400	7.69	

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	<b>1170</b>	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<b>6440</b>	50.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 172 % 65.2-140

Surrogate: 1-Chlorooctadecane 182 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/05/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H202481-14)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<b>0.149</b>	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>2.16</b>	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>13.3</b>	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 459 % 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	<b>3800</b>	16.0	10/16/2012	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>485</b>	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<b>4340</b>	50.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 136 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 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:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 5' (H202481-15)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
<b>Total Xylenes*</b>	<b>0.216</b>	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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
<b>Chloride</b>	<b>3120</b>	16.0	10/16/2012	ND	400	100	400	7.69	

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	10/13/2012	ND	179	89.3	200	4.40	
<b>DRO &gt;C10-C28</b>	<b>206</b>	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.1 % 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:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 8' (H202481-16)**

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	10/15/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 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	448	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	27.3	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 84.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.2 % 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: 10/11/2012  
Reported: 10/16/2012  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/05/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H202481-17)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 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	1360	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	13.3	10.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.9 % 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:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 4 @ 14' (H202481-18)**

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	10/15/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.6 % 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:	10/11/2012	Sampling Date:	10/05/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 5 @ 2' (H202481-19)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.238	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	4.18	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	19.0	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	5840	16.0	10/16/2012	ND	400	100	400	7.69		

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	482	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	4920	50.0	10/13/2012	ND	170	84.8	200	8.47	

Surrogate: 1-Chlorooctane 132 % 65.2-140

Surrogate: 1-Chlorooctadecane 159 % 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:	10/11/2012	Sampling Date:	10/08/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 6 @ 2' (H202481-20)**

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	10/15/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PID) 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	832	16.0	10/16/2012	ND	400	100	400	7.69		

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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 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:	10/11/2012	Sampling Date:	10/08/2012
Reported:	10/16/2012	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 7 @ 2' (H202481-21)**

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	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<b>0.135</b>	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<b>2.87</b>	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<b>15.5</b>	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	<b>992</b>	16.0	10/16/2012	ND	400	100	400	7.69	

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	<b>534</b>	50.0	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<b>4840</b>	50.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 142 % 65.2-140

Surrogate: 1-Chlorooctadecane 154 % 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



### 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



---

Celey 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**

2 of 3

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
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: SAME															
Project #: Project Owner: OKY				City: SAME															
Project Name: Sand Pones 2341 520				State: Zip:															
Project Location:				Phone #:															
Sampler Name: JEFF ORNELAS				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH	BTEX	CL-			
H202481																			
11	SP30 8'	G 1			✓				✓			10.4	300	✓	✓	✓			
12	10'	G 1			✓				✓			10.4	316	✓	✓	✓			
13	SP40 1'	G 1			✓				✓			10.5	358	✓	✓	✓			
14	3'	G 1			✓				✓			10.5	915	✓	✓	✓			
15	5'	G 1			✓				✓			10.5	932	✓	✓	✓			
16	8'	G 1			✓				✓			10.5	1003	✓	✓	✓			
17	11'	G 1			✓				✓			10.5	1100	✓	✓	✓			
18	14'	G 1			✓				✓			10.5	111	✓	✓	✓			
19	SP50 2'	G 1			✓				✓			10.5	200	✓	✓	✓			
20	SP60 2'	G 1			✓				✓			10.8	940	✓	✓	✓			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Roger Hernandez	10/11/12	Adi Henson	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:				
Delivered By: (Circle One)	Sample Condition	CHECKED BY:			
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)			
	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	<input type="checkbox"/> No <input type="checkbox"/> No				

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

#26



101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

[illegible]

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time:	Received By:	Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)				REMARKS:			
Sampler - UPS - Bus - Other:							

November 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 #1 2ND LEAK

Enclosed are the results of analyses for samples received by the laboratory on 11/06/12 15:42.

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](http://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:	11/06/2012	Sampling Date:	10/30/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H202705-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

**Sample ID: SP 1 @ 1' (H202705-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

**Sample ID: SP 2 @ SURFACE (H202705-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

**Sample ID: SP 2 @ 1' (H202705-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

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:	11/06/2012	Sampling Date:	10/30/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 3 @ SURFACE (H202705-05)**

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	11/09/2012	ND	432	108	400	0.00		

**Sample ID: SP 3 @ 1' (H202705-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2012	ND	432	108	400	0.00	

**Sample ID: SP 4 @ SURFACE (H202705-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	11/09/2012	ND	432	108	400	0.00		

**Sample ID: SP 4 @ 1' (H202705-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 2' (H202705-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/12/2012	ND	416	104	400	0.00		

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: 11/06/2012  
 Reported: 11/12/2012  
 Project Name: SAND DUNES 28 #1 2ND LEAK  
 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 5 @ SURFACE (H202705-10)**

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	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 5 @ 1' (H202705-11)**

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	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 6 @ SURFACE (H202705-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 6 @ 1' (H202705-13)**

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	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 7 @ SURFACE (H202705-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	92800	16.0	11/12/2012	ND	416	104	400	0.00	

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:	11/06/2012	Sampling Date:	10/30/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 7 @ 1' (H202705-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 7 @ 3' (H202705-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 7 @ 6' (H202705-17)**

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	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 8 @ SURFACE (H202705-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 8 @ 1' (H202705-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/12/2012	ND	416	104	400	0.00	

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:	11/06/2012	Sampling Date:	10/31/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 8 @ 3' (H202705-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 8 @ 6' (H202705-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 8 @ 7' (H202705-22)**

Chloride, SM4500CI-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	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 9 @ SURFACE (H202705-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	58400	16.0	11/12/2012	ND	416	104	400	0.00	

**Sample ID: SP 9 @ 1' (H202705-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/12/2012	ND	416	104	400	0.00	

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:	11/06/2012	Sampling Date:	10/31/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 9 @ 3' (H202705-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 9 @ 5' (H202705-26)**

Chloride, SM4500CI-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	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 10 @ SURFACE (H202705-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	34000	16.0	11/12/2012	ND	416	104	400	0.00		

**Sample ID: SP 10 @ 1' (H202705-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23600	16.0	11/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 10 @ 3' (H202705-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	11/12/2012	ND	400	100	400	0.00		

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: 11/06/2012  
 Reported: 11/12/2012  
 Project Name: SAND DUNES 28 #1 2ND LEAK  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 10 @ 6' (H202705-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 10 @ 7' (H202705-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ SURFACE (H202705-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ 1' (H202705-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ 3' (H202705-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	11/12/2012	ND	400	100	400	0.00	

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: 11/06/2012  
 Reported: 11/12/2012  
 Project Name: SAND DUNES 28 #1 2ND LEAK  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/31/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 11 @ 6' (H202705-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ 9' (H202705-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ 13' (H202705-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 11 @ 18' (H202705-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 12 @ SURFACE (H202705-39)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72000	16.0	11/12/2012	ND	400	100	400	0.00	

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:	11/06/2012	Sampling Date:	10/31/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 12 @ 1' (H202705-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	11/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 12 @ 3' (H202705-41)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 12 @ 6' (H202705-42)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 12 @ 9' (H202705-43)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 12 @ 13' (H202705-44)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	11/12/2012	ND	400	100	400	0.00	

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:	11/06/2012	Sampling Date:	11/01/2012
Reported:	11/12/2012	Sampling Type:	Soil
Project Name:	SAND DUNES 28 #1 2ND LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 12 @ 18' (H202705-45)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	11/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 13 @ SURFACE (H202705-46)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	11/12/2012	ND	400	100	400	0.00	

**Sample ID: SP 13 @ 1' (H202705-47)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	11/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 13 @ 3' (H202705-48)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/09/2012	ND	432	108	400	0.00		

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

### 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

---

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

**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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
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 28 #1 2ND LEAK				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
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													
H2027105																											
1	SP1 @ SURFACE	6	1			✓					✓		10/30/12	9:45 AM	✓												
2	SP1 @ 1'	6	1			✓					✓		10/30/12	10:00 AM	✓												
3	SP2 @ SURFACE	6	1			✓					✓		10/30/12	10:11 AM	✓												
4	SP2 @ 1'	6	1			✓					✓		10/30/12	10:29 AM	✓												
5	SP3 @ SURFACE	6	1			✓					✓		10/30/12	10:51 AM	✓												
6	SP3 @ 1'	6	1			✓					✓		10/30/12	11:01 AM	✓												
7	SP4 @ SURFACE	6	1			✓					✓		10/30/12	11:19 AM	✓												
8	SP4 @ 1'	6	1			✓					✓		10/30/12	11:30 AM	✓												
9	SP4 @ 2'	6	1			✓					✓		10/30/12	11:48 AM	✓												
10	SP5 @ SURFACE	6	1			✓					✓		10/30/12	1:01 PM	✓												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date:	Received By:	Phone Result:	Add'l Phone #:
<i>Jeff Ornelas</i>	11-6-12	<i>Ken Swancy</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Time:		Fax Result:	Add'l Fax #:
	3:00		<input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:	Date:	Received By:	REMARKS:	
<i>Ken Swancy</i>	11-6-12	<i>Godi Benson</i>		
	Time:			
	3:42			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JS</i>		
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

#26

**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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
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:														City:									
Project #:		Project Owner: Oxy		State:														Zip:									
Project Name: SAND DUNES 28 #1 2ND LEAK				Phone #:														Fax #:									
Project Location: Eddy County, NM																											
Sampler Name: Jeff Ornelas																											
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													
H2077DS																											
11	SP5 @ 1'	G	1			✓					✓		10/30/12	1:17 PM	✓												
12	SP6 @ SURFACE	G	1			✓					✓		10/30/12	1:23 PM	✓												
13	SP6 @ 1'	G	1			✓					✓		10/30/12	1:33 PM	✓												
14	SP7 @ SURFACE	G	1			✓					✓		10/30/12	1:45 PM	✓												
15	SP7 @ 1'	G	1			✓					✓		10/30/12	2:02 PM	✓												
16	SP7 @ 3'	G	1			✓					✓		10/30/12	2:41 PM	✓												
17	SP7 @ 6'	G	1			✓					✓		10/30/12	3:33 PM	✓												
18	SP8 @ SURFACE	G	1			✓					✓		10/30/12	3:41 PM	✓												
19	SP8 @ 1'	G	1			✓					✓		10/30/12	3:47 PM	✓												
20	SP8 @ 3'	G	1			✓					✓		10/31/12	8:42 AM	✓												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11-6-12	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff Ornelas</i>	Time: 3:00	<i>Ken Swinson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 11-6-12	Received By:	REMARKS:	
<i>Ken Swinson</i>	Time: 3:42	<i>Jodi Henson</i>		
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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





# **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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																					
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 28 #1 2ND LEAK				State: Zip:																							
Project Location: Eddy County, NM				Phone #:																							
Sampler Name: Jeff Ornelas				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER :																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER :																			
												DATE		TIME													
H202705		SP8 @ 6' ✓		6		1						10/31/12		9:17 AM		✓											
21		SP8 @ 7' ✓		6		1						10/31/12		9:29 AM		✓											
22		SP9 @ SURFACE ✓		6		1						10/31/12		9:30 AM		✓											
23		SP9 @ 1' ✓		6		1						10/31/12		9:39 AM		✓											
24		SP9 @ 3' ✓		6		1						10/31/12		9:59 AM		✓											
25		SP9 @ 5' ✓		6		1						10/31/12		10:30 AM		✓											
26		SP10 @ SURFACE ✓		6		1						10/31/12		10:45 AM		✓											
27		SP10 @ 1' ✓		6		1						10/31/12		10:54 AM		✓											
28		SP10 @ 3' ✓		6		1						10/31/12		11:11 AM		✓											
29		SP10 @ 6' ✓		6		1						10/31/12		11:30 AM		✓											
30																											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 11-6-12		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 3:00						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 11-6-12		Received By:		REMARKS:			
Time: 3:42									
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		0.0°C		Sample Condition		CHECKED BY: (Initials)			
				Cool Intact					
				<input type="checkbox"/> Yes <input type="checkbox"/> No					
				<input type="checkbox"/> Yes <input type="checkbox"/> No					

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

A26

**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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>													
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:														City:	
Project #:		Project Owner: Oxy		State:														Zip:	
Project Name: SAND DUNES 28 #1 2ND LEAK				Phone #:														Fax #:	
Project Location: Eddy County, NM																			
Sampler Name: Jeff Ornelas																			

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME								
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:											
	H202705																	
	31		SP10 @ 7'	6	1				10/31/12	11:51 AM	✓							
	32		SP11 @ SURFACE	6	1				10/31/12	1:05 PM	✓							
	33		SP11 @ 1'	6	1				10/31/12	1:11 PM	✓							
	34		SP11 @ 3'	6	1				10/31/12	1:20 PM	✓							
	35		SP11 @ 6'	6	1				10/31/12	1:40 PM	✓							
	36		SP11 @ 9'	6	1				10/31/12	2:40 PM	✓							
	37		SP11 @ 13'	6	1				11/1/12	9:00 AM	✓							
	38		SP11 @ 18'	6	1				11/1/12	10:23 AM	✓							
	39		SP12 @ SURFACE	6	1				10/31/12	3:00 PM	✓							
	40		SP12 @ 1'	6	1				10/31/12	3:01 PM	✓							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 11-6-12	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 3:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 11-6-12	Received By:	REMARKS:	
	Time: 3:42			
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other:		Sample Condition Cool / Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)	

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



## Page 17 of 17

April 19, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/15/13 8:40.

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](http://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:	04/15/2013	Sampling Date:	04/04/2013
Reported:	04/19/2013	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 1 @ 1' (H300894-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2013	ND	2.04	102	2.00	7.37	
Toluene*	<0.050	0.050	04/18/2013	ND	2.01	100	2.00	7.72	
Ethylbenzene*	<0.050	0.050	04/18/2013	ND	2.01	101	2.00	7.77	
Total Xylenes*	<0.150	0.150	04/18/2013	ND	5.94	99.0	6.00	7.35	
Total BTEX	<0.300	0.300	04/18/2013	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1970	16.0	04/16/2013	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/17/2013	ND	214	107	200	1.59	
DRO >C10-C28	<10.0	10.0	04/17/2013	ND	231	116	200	8.38	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

**Sample ID: SP 1 @ 3' (H300894-02)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/16/2013	ND	432	108	400	0.00	

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:	04/15/2013	Sampling Date:	04/04/2013
Reported:	04/19/2013	Sampling Type:	Soil
Project Name:	SAND DUNES #28 #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: SP 2 @ 1' (H300894-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	04/16/2013	ND	432	108	400	0.00		

**Sample ID: SP 2 @ 3' (H300894-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/16/2013	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 1' (H300894-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/16/2013	ND	432	108	400	0.00	

**Sample ID: SP 3 @ 3' (H300894-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	04/16/2013	ND	432	108	400	0.00	

**Sample ID: SP 4 @ 1' (H300894-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/16/2013	ND	432	108	400	0.00	

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: 04/15/2013  
Reported: 04/19/2013  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/04/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H300894-08)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2013	ND	2.04	102	2.00	7.37	
Toluene*	<0.050	0.050	04/18/2013	ND	2.01	100	2.00	7.72	
Ethylbenzene*	<0.050	0.050	04/18/2013	ND	2.01	101	2.00	7.77	
Total Xylenes*	<0.150	0.150	04/18/2013	ND	5.94	99.0	6.00	7.35	
Total BTEx	<0.300	0.300	04/18/2013	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/16/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/17/2013	ND	214	107	200	1.59	
DRO >C10-C28	<10.0	10.0	04/17/2013	ND	231	116	200	8.38	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

**Sample ID: SP 5 @ 1' (H300894-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/16/2013	ND	432	108	400	0.00	

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: 04/15/2013  
 Reported: 04/19/2013  
 Project Name: SAND DUNES #28 #1 SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/04/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 2' (H300894-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/16/2013	ND	432	108	400	0.00		

**Sample ID: SP 6 @ 1' (H300894-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/16/2013	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 2' (H300894-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8720	16.0	04/16/2013	ND	432	108	400	0.00		

**Sample ID: SP 7 @ 6' (H300894-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	04/16/2013	ND	432	108	400	0.00	

**Sample ID: SP 8 @ 6' (H300894-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/16/2013	ND	432	108	400	0.00	

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: 04/15/2013  
Reported: 04/19/2013  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 04/08/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ 6' (H300894-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10600	16.0	04/16/2013	ND	432	108	400	0.00		

**Sample ID: SP 10 @ 6' (H300894-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	04/16/2013	ND	432	108	400	0.00	

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

**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

---

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



# 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.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Sand Dunes 28 Federal #1 SWD

Project Location: Eddy County, NM

Sample Name: Roger Hernandez

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

### ANALYSIS REQUEST

FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					PRESERV.		SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
										GROUNDWATER					WASTEWATER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										SOIL					OIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										SLUDGE					OTHER :																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										ACID/BASE:					ICE / COOL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										OTHER :																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
										DATE					TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	SP1 @ 1'	G	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 4/13/13

Time: 1:40

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: (initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

REMARKS:

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

# 54



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST																	
Project Manager: Cliff Brunson		P.O. #:																			
Address: P.O. Box 805		Company:																			
City: Hobbs		State: NM Zip: 88241																			
Phone #: 575-397-6388		Fax #: 575-397-0397																			
Project #:		Project Owner: Oxy																			
Project Name: Sand Dunes 28 Federal #1 SWD		City:																			
Project Location: Eddy County, NM		State:																			
Sampler Name: Roger Hernandez		Phone #:																			
FOR LAB USE ONLY		Fax #:																			
Lab I.D.		Sample I.D.		MATRIX		PRESERV		SAMPLING													
		(G)RAB OR (C)OMP.																			
		# CONTAINERS																			
		GROUNDWATER																			
		WASTEWATER																			
		SOIL																			
		OIL																			
		SLUDGE																			
		OTHER :																			
		ACID/BASE:																			
		ICE / COOL																			
		OTHER :																			
		DATE		TIME																	
11		SP6 @ 1'		✓		4/5/13		9:30 AM													
12		SP6 @ 2'		✓		4/5/13		9:48 AM													
13		SP7 @ 6'		✓		4/8/13		9:10 AM													
14		SP8 @ 6'		✓		4/8/13		10:50 AM													
15		SP9 @ 6'		✓		4/8/13		1:00 PM													
16		SP10 @ 6'		✓		4/8/13		2:13 PM													
17		SP11 @ 6'		✓		4/8/13		2:13 PM													
18		SP12 @ 6'		✓		4/8/13		2:13 PM													
19		SP13 @ 6'		✓		4/8/13		2:13 PM													
20		SP14 @ 6'		✓		4/8/13		2:13 PM													
21		SP15 @ 6'		✓		4/8/13		2:13 PM													
22		SP16 @ 6'		✓		4/8/13		2:13 PM													
23		SP17 @ 6'		✓		4/8/13		2:13 PM													
24		SP18 @ 6'		✓		4/8/13		2:13 PM													
25		SP19 @ 6'		✓		4/8/13		2:13 PM													
26		SP20 @ 6'		✓		4/8/13		2:13 PM													
27		SP21 @ 6'		✓		4/8/13		2:13 PM													
28		SP22 @ 6'		✓		4/8/13		2:13 PM													
29		SP23 @ 6'		✓		4/8/13		2:13 PM													
30		SP24 @ 6'		✓		4/8/13		2:13 PM													
31		SP25 @ 6'		✓		4/8/13		2:13 PM													
32		SP26 @ 6'		✓		4/8/13		2:13 PM													
33		SP27 @ 6'		✓		4/8/13		2:13 PM													
34		SP28 @ 6'		✓		4/8/13		2:13 PM													
35		SP29 @ 6'		✓		4/8/13		2:13 PM													
36		SP30 @ 6'		✓		4/8/13		2:13 PM													
37		SP31 @ 6'		✓		4/8/13		2:13 PM													
38		SP32 @ 6'		✓		4/8/13		2:13 PM													
39		SP33 @ 6'		✓		4/8/13		2:13 PM													
40		SP34 @ 6'		✓		4/8/13		2:13 PM													
41		SP35 @ 6'		✓		4/8/13		2:13 PM													
42		SP36 @ 6'		✓		4/8/13		2:13 PM													
43		SP37 @ 6'		✓		4/8/13		2:13 PM													
44		SP38 @ 6'		✓		4/8/13		2:13 PM													
45		SP39 @ 6'		✓		4/8/13		2:13 PM													
46		SP40 @ 6'		✓		4/8/13		2:13 PM													
47		SP41 @ 6'		✓		4/8/13		2:13 PM													
48		SP42 @ 6'		✓		4/8/13		2:13 PM													
49		SP43 @ 6'		✓		4/8/13		2:13 PM													
50		SP44 @ 6'		✓		4/8/13		2:13 PM													
51		SP45 @ 6'		✓		4/8/13		2:13 PM													
52		SP46 @ 6'		✓		4/8/13		2:13 PM													
53		SP47 @ 6'		✓		4/8/13		2:13 PM													
54		SP48 @ 6'		✓		4/8/13		2:13 PM													
55		SP49 @ 6'		✓		4/8/13		2:13 PM													
56		SP50 @ 6'		✓		4/8/13		2:13 PM													
57		SP51 @ 6'		✓		4/8/13		2:13 PM													
58		SP52 @ 6'		✓		4/8/13		2:13 PM													
59		SP53 @ 6'		✓		4/8/13		2:13 PM													
60		SP54 @ 6'		✓		4/8/13		2:13 PM													
61		SP55 @ 6'		✓		4/8/13		2:13 PM													
62		SP56 @ 6'		✓		4/8/13		2:13 PM													
63		SP57 @ 6'		✓		4/8/13		2:13 PM													
64		SP58 @ 6'		✓		4/8/13		2:13 PM													
65		SP59 @ 6'		✓		4/8/13		2:13 PM													
66		SP60 @ 6'		✓		4/8/13		2:13 PM													
67		SP61 @ 6'		✓		4/8/13		2:13 PM													
68		SP62 @ 6'		✓		4/8/13		2:13 PM													
69		SP63 @ 6'		✓		4/8/13		2:13 PM													
70		SP64 @ 6'		✓		4/8/13		2:13 PM													
71		SP65 @ 6'		✓		4/8/13		2:13 PM													
72		SP66 @ 6'		✓		4/8/13		2:13 PM													
73		SP67 @ 6'		✓		4/8/13		2:13 PM													
74		SP68 @ 6'		✓		4/8/13		2:13 PM													
75		SP69 @ 6'		✓		4/8/13		2:13 PM													
76		SP70 @ 6'		✓		4/8/13		2:13 PM													
77		SP71 @ 6'		✓		4/8/13		2:13 PM													
78		SP72 @ 6'		✓		4/8/13		2:13 PM													
79		SP73 @ 6'		✓		4/8/13		2:13 PM													
80		SP74 @ 6'		✓		4/8/13		2:13 PM													
81		SP75 @ 6'		✓		4/8/13		2:13 PM													
82		SP76 @ 6'		✓		4/8/13		2:13 PM													
83		SP77 @ 6'		✓		4/8/13		2:13 PM													
84		SP78 @ 6'		✓		4/8/13		2:13 PM													
85		SP79 @ 6'		✓		4/8/13		2:13 PM													
86		SP80 @ 6'		✓		4/8/13		2:13 PM													
87		SP81 @ 6'		✓		4/8/13		2:13 PM													
88		SP82 @ 6'		✓		4/8/13		2:13 PM													
89		SP83 @ 6'		✓		4/8/13		2:13 PM													
90		SP84 @ 6'		✓		4/8/13		2:13 PM													
91		SP85 @ 6'		✓		4/8/13		2:13 PM													
92		SP86 @ 6'		✓		4/8/13		2:13 PM													
93		SP87 @ 6'		✓		4/8/13		2:13 PM													
94		SP88 @ 6'		✓		4/8/13		2:13 PM													
95		SP89 @ 6'		✓		4/8/13		2:13 PM													
96		SP90 @ 6'		✓		4/8/13		2:13 PM													
97		SP91 @ 6'		✓		4/8/13		2:13 PM													
98		SP92 @ 6'		✓		4/8/13		2:13 PM													
99		SP93 @ 6'		✓		4/8/13		2:13 PM													
100		SP94 @ 6'		✓		4/8/13		2:13 PM													
101		SP95 @ 6'		✓		4/8/13		2:13 PM													
102		SP96 @ 6'		✓		4/8/13		2:13 PM													
103		SP97 @ 6'		✓		4/8/13		2:13 PM													
104		SP98 @ 6'		✓		4/8/13		2:13 PM													
105		SP99 @ 6'		✓		4/8/13		2:13 PM													
106		SP100 @ 6'		✓		4/8/13		2:13 PM													
107		SP101 @ 6'		✓		4/8/13		2:13 PM													
108		SP102 @ 6'		✓		4/8/13		2:13 PM													
109		SP103 @ 6'		✓		4/8/13		2:13 PM													
110		SP104 @ 6'		✓		4/8/13		2:13 PM													
111		SP105 @ 6'		✓		4/8/13		2:13 PM													
112		SP106 @ 6'		✓		4/8/13		2:13 PM													
113		SP107 @ 6'		✓		4/8/13		2:13 PM													
114		SP108 @ 6'		✓		4/8/13		2:13 PM													
115		SP109 @ 6'		✓		4/8/13		2:13 PM													
116		SP110 @ 6'		✓		4/8/13		2:13 PM													
117		SP111 @ 6'		✓		4/8/13		2:13 PM													
118		SP112 @ 6'		✓		4/8/13		2:13 PM													
119		SP113 @ 6'		✓		4/8/13		2:13 PM													
120		SP114 @ 6'		✓		4/8/13		2:13 PM													
121		SP115 @ 6'		✓		4/8/13		2:13 PM													
122		SP116 @ 6'		✓		4/8/13		2:13 PM													
123		SP117 @ 6'		✓		4/8/13		2:13 PM													
124		SP118 @ 6'		✓		4/8/13		2:13 PM													
125		SP119 @ 6'		✓		4/8/13		2:13 PM													
126		SP120 @ 6'		✓		4/8/13		2:13 PM													
127		SP121 @ 6'		✓		4/8/13		2:13 PM													
128		SP122 @ 6'		✓		4/8/13		2:13 PM													
129		SP123 @ 6'		✓		4/8/13		2:13 PM													
130		SP124 @ 6'		✓		4/8/13		2:13 PM													
131		SP125 @ 6'		✓		4/8/13		2:13 PM													
132		SP126 @ 6'		✓		4/8/13		2:13 PM													
133		SP127 @ 6'		✓		4/8/13		2:13 PM													
134		SP128 @ 6'		✓		4/8/13		2:13 PM													
135		SP129 @ 6'		✓		4/8/13		2:13 PM													
136		SP130 @ 6'		✓		4/8/13		2:13 PM													
137		SP131 @ 6'		✓		4/8/13		2:13 PM													
138		SP132 @ 6'		✓		4/8/13		2:13 PM													
139		SP133 @ 6'		✓		4/8/13		2:13 PM													
140		SP134 @ 6'		✓		4/8/13		2:13 PM													
141		SP135 @ 6'		✓		4/8/13		2:13 PM													
142		SP136 @ 6'		✓		4/8/13		2:13 PM													
143		SP137 @ 6'		✓		4/8/13		2:13 PM													
144		SP138 @ 6'		✓		4/8/13		2:13 PM													
145		SP139 @ 6'		✓		4/8/13		2:13 PM													
146		SP140 @ 6'		✓		4/8/13		2:13 PM													
147		SP141 @ 6'		✓		4/8/13		2:13 PM													
148		SP142 @ 6'		✓		4/8/13		2:13 PM													
149		SP143 @ 6'		✓		4/8/13		2:13 PM													
150		SP144 @ 6'		✓		4/8/13		2:13 PM													
151		SP145 @ 6'		✓		4/8/13		2:13 PM													
152		SP146 @ 6'		✓		4/8/13		2:13 PM													
153		SP147 @ 6'		✓		4/8/13		2:13 PM													
154		SP148 @ 6'		✓		4/8/13		2:13 PM													
155		SP149 @ 6'		✓		4/8/13		2:13 PM													
156		SP150 @ 6'		✓		4/8/13		2:13 PM													
157		SP151 @ 6'		✓		4/8/13		2:13 PM													
158		SP152 @ 6'		✓		4/8/13		2:13 PM													
159		SP153 @ 6'		✓		4/8/13		2:13 PM													
160		SP154 @ 6'		✓		4/8/13		2:13 PM													
161		SP155 @ 6'		✓		4/8/13		2:13 PM													
162		SP156 @ 6'		✓		4/8/13															

August 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28-1

Enclosed are the results of analyses for samples received by the laboratory on 08/07/13 11:55.

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](http://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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/30/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301840-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 101 % 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	5480	16.0	08/09/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/30/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301840-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8240	16.0	08/09/2013	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 5' (H301840-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/09/2013	ND	416	104	400	0.00	

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/30/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301840-04)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00		
Total BTX	<0.300	0.300	08/09/2013	ND						

Surrogate: Dibromofluoromethane 99.5 % 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	1280	16.0	08/09/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 104 % 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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/30/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301840-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 2 @ 4' (H301840-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/09/2013	ND	400	100	400	3.92	

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/30/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301840-07)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTX	<0.300	0.300	08/09/2013	ND					

Surrogate: Dibromofluoromethane 97.3 % 61.3-142  
Surrogate: Toluene-d8 100 % 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	7200	16.0	08/09/2013	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	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	581	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 107 % 65.2-140  
Surrogate: 1-Chlorooctadecane 142 % 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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301840-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	08/09/2013	ND	400	100	400	3.92		

**Sample ID: SP 3 @ 5' (H301840-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 3 @ 8' (H301840-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/09/2013	ND	400	100	400	3.92	

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301840-11)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00		
Total BTX	<0.300	0.300	08/09/2013	ND						

Surrogate: Dibromofluoromethane 96.9 % 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	5440	16.0	08/09/2013	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	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 109 % 65.2-140  
Surrogate: 1-Chlorooctadecane 131 % 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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301840-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	08/09/2013	ND	400	100	400	3.92		

**Sample ID: SP 4 @ 4 (H301840-13)**

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	08/09/2013	ND	400	100	400	3.92	

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301840-14)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00		
Total BTX	<0.300	0.300	08/09/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 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	6640	16.0	08/09/2013	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	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	41.1	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 103 % 65.2-140  
Surrogate: 1-Chlorooctadecane 126 % 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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/31/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' (H301840-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 5 @ 5' (H301840-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 5 @ 9' (H301840-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	08/09/2013	ND	400	100	400	3.92	

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 08/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H301840-18)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTX	<0.300	0.300	08/09/2013	ND					

Surrogate: Dibromofluoromethane 97.2 % 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	9800	16.0	08/09/2013	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	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 111 % 65.2-140  
Surrogate: 1-Chlorooctadecane 135 % 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:	08/07/2013	Sampling Date:	08/01/2013
Reported:	08/11/2013	Sampling Type:	Soil
Project Name:	SAND DUNES 28-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 6 @ 3' (H301840-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 6 @ 5' (H301840-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 6 @ 7' (H301840-21)**

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	08/09/2013	ND	400	100	400	3.92		

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: 08/07/2013  
Reported: 08/11/2013  
Project Name: SAND DUNES 28-1  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 08/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H301840-22)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTX	<0.300	0.300	08/09/2013	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142  
Surrogate: Toluene-d8 101 % 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	3120	16.0	08/09/2013	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	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	

Surrogate: 1-Chlorooctane 110 % 65.2-140  
Surrogate: 1-Chlorooctadecane 132 % 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:	08/07/2013	Sampling Date:	08/01/2013
Reported:	08/11/2013	Sampling Type:	Soil
Project Name:	SAND DUNES 28-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP 7 @ 3' (H301840-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 7 @ 4' (H301840-24)**

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	08/09/2013	ND	400	100	400	3.92	

**Sample ID: SP 8 @ 2' (H301840-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	08/09/2013	ND	416	104	400	0.00	

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

### 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

---

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







# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: BBC International, Inc.		<b>BILL TO</b>		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		P.O. #:											
Address: P.O. Box 805		Company:											
City: Hobbs		Attn:											
State: NM Zip: 88241		Address:											
Phone #: 575-397-6388 Fax #: 575-397-0397		City:											
Project #: Project Owner: Oxy		State:											
Project Name: Sand Dunes 28-1		Zip:											
Project Location: Eddy County, NM		Phone #:											
Sample Name: Jeff Ornelas		Fax #:											

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	C1	TPH	BTEX							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL												OTHER :
11301840	SP4 @ 1'	G	1									7/31/13	11:53 AM	✓	✓	✓							
	SP4 @ 3'	G	1									7/31/13	1:29 PM	✓									
	SP4 @ 4'	G	1									7/31/13	1:51 PM	✓									
	SP5 @ 1'	G	1									7/31/13	2:08 PM	✓	✓								
	SP5 @ 3'	G	1									7/31/13	2:29 PM	✓									
	SP5 @ 5'	G	1									7/31/13	3:13 PM	✓									
	SP5 @ 9'	G	1									8/1/13	9:37 AM	✓									
	SP6 @ 1'	G	1									8/1/13	10:23 AM	✓	✓								
	SP6 @ 3'	G	1									8/1/13	11:00 AM	✓									
	SP6 @ 5'	G	1									8/1/13	11:44 AM	✓									

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Jeff Ornelas</i>	Date: 8/1/13	Time: 5:00pm	Received By: <i>Jeff Ornelas</i>	Date: 8/1/13	Time: 11:55am
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>5.22</i>	Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>Jeff Ornelas</i>		INITIALS: <i>JO</i>

REMARKS:

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





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

---

July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 FED #1 SWD BATTERY ( 10/06/14 LEAK )

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	07/17/2015	Sampling Date:	07/15/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	SAND DUNES 28 FED #1 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY ,NM		

**Sample ID: SP1 @ SURFACE (H501848-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	07/22/2015	ND	416	104	400	0.00	

**Sample ID: SP1 @ 1' (H501848-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/22/2015	ND	416	104	400	0.00	

**Sample ID: SP1 @ 2' (H501848-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/22/2015	ND	416	104	400	0.00	

**Sample ID: SP2 @ SURFACE (H501848-04)**

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	07/22/2015	ND	416	104	400	0.00	

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:	07/17/2015	Sampling Date:	07/15/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	SAND DUNES 28 FED #1 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY ,NM		

**Sample ID: SP3 @ SURFACE (H501848-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP3 @ 1' (H501848-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP3 @ 2' (H501848-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1640	16.0	07/22/2015	ND	432	108	400	0.00		

**Sample ID: SP3 @ 3' (H501848-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP3 @ 4' (H501848-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/22/2015	ND	432	108	400	0.00	

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:	07/17/2015	Sampling Date:	07/15/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	SAND DUNES 28 FED #1 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY ,NM		

**Sample ID: SP3 @ 5' (H501848-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/22/2015	ND	432	108	400	0.00		

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



**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

---

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



# 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.  
Project Manager: Cliff Brunson  
Address: P.O. Box 805  
City: Hobbs  
Phone #: 575-397-6388  
Project #:

State: NM Zip: 88241  
Fax #: 575-397-0397  
Project Owner: Oxy

Project Name: Sand Dunes 28 Fed #1 SWD Battery (10/06/14 leak)  
Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

### BILL TO

P.O. #:  
Company:  
Attn:  
Address:  
City:  
State: Zip:  
Phone #:  
Fax #:

### ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :												
1501848	SP1 @ SURFACE	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	12:50 PM	✓							
	SP1 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	1:11 PM	✓							
	SP1 @ 2'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	1:20 PM	✓							
	SP2 @ SURFACE	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	1:46 PM	✓							
	SP3 @ SURFACE	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	2:15 PM	✓							
	SP3 @ 1'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	2:30 PM	✓							
	SP3 @ 2'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	2:46 PM	✓							
	SP3 @ 3'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	2:50 PM	✓							
	SP3 @ 4'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	2:57 PM	✓							
	SP3 @ 5'	G	1	✓	✓	✓	✓	✓	✓	✓	✓	7/15/15	3:09 PM	✓							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Relinquished By:

Date: 7/15/15

Time: 11:20

Received By:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool / Intact

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

#54



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

---

July 10, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 8:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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: 07/08/2014  
Reported: 07/10/2014  
Project Name: SAND DUNES #28 #1 SWD  
Project Number: NONE GIVEN  
Project Location: PURE GOLD RD

Sampling Date: 07/02/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 21' (H402059-01)**

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	07/10/2014	ND	400	100	400	3.92	

**Sample ID: SB 1 @ 24' (H402059-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	07/10/2014	ND	400	100	400	3.92		

**Sample ID: SB 1 @ 26' (H402059-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/10/2014	ND	400	100	400	3.92	

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

**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

---

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



Company Name: BBC International, Inc.				P.O. #:		BILL TO										ANALYSIS REQUEST										
Project Manager: Cliff Brunson				Company: OXY																						
Address: P.O. Box 805				Attn:																						
City: Hobbs				Address:																						
Phone #: 575-397-6368				Fax #:																						
State: NM Zip: 88241				City:																						
Project #:				Project Owner: OXY																						
Project Name: Sand Jones 28				State: Zip:																						
Project Location: Pure Gold Rd				Phone #:																						
Sample Name: Pure Brass				Fax #:																						
FOR LAB USE ONLY				DATE																						
Lab I.D. Sample I.D.				(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					PRESERV		SAMPLING											
								GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					OTHER :									
H402059				1		1							DATE		TIME											
2				1		1							DATE		TIME											
3				1		1							DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE		TIME											
													DATE													



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

---

July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 FED #1 SWD BATTERY ( 10/23/14 LEAK )

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	07/17/2015	Sampling Date:	07/15/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	SAND DUNES 28 FED #1 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP1 @ SURFACE (H501849-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP1 @ 1' (H501849-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP1 @ 2' (H501849-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP2 @ SURFACE (H501849-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/22/2015	ND	432	108	400	0.00	

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:	07/17/2015	Sampling Date:	07/15/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	SAND DUNES 28 FED #1 SWD BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY, NM		

**Sample ID: SP2 @ 1' (H501849-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/22/2015	ND	432	108	400	0.00	

**Sample ID: SP2 @ 2' (H501849-06)**

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	07/22/2015	ND	432	108	400	0.00	

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

**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

---

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



# ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10x

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Sand Dunes 28 Fed #1 SWD Battery (10/23/14 leak)

Project Location: Eddy County, NM

Sampler Name: Jeff Ornelas

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

#501849

SP1 @ SURFACE  
SP1 @ 1'  
SP1 @ 2'  
SP2 @ SURFACE  
SP2 @ 1'  
SP2 @ 2'

3/13/15  
12P

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

7/15/15 9:19 AM  
7/15/15 9:38 AM  
7/15/15 10:10 AM  
7/15/15 10:30 AM  
7/15/15 10:41 AM  
7/15/15 11:07 AM

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 7/15/15

Received By:

Relinquished By:

Date: 7/15/15

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.2c

Sample Condition  
Cool Impact  
Yes ☒ No ☐

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

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

#54





































