

Closure Report

RECEIVED

MAY 30 2013

NMOOD ARTESIA

Site Description	
Site Name:	Winston Gas Com Battery
Company:	Oxy Permian Ltd.
Legal Description:	U/L B, Section 31, T21S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.441° W 104.536°

Release Data	
Date of Release:	08/10/2012
Type of Release:	Oil and produced water
Source of Release:	Gasket failure on free water knockout
Volume of Release:	700 bbls
Volume Recovered:	650 bbls

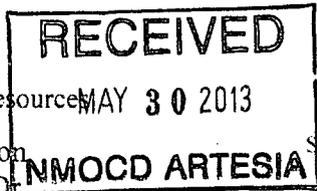
Remediation Specifications		
Remediation Parameters:	Hand dig in the areas of SP4 and SP5 first to allow BTEX components to degrade then, excavate 2 feet of impacted soil across entire site inside berms. Conduct sidewall confirmation sampling. Install 1' clay liner. Backfill the excavation with clean soil. Resurface pad area with 6" of clean caliche. Repair berms. Reseed pasture disturbances as needed.	
Remediation Activities:	02/25/2013 to 05/17/2013	
Plan Sent to OCD:	01/23/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/24/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	01/23/2013	Email from Cliff Brunson to Terry Gregston
BLM Approval of Plan:	01/30/2013	Email from Terry Gregston to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 08/24/2012
Final C-141	Signed 05/29/2013
Site Diagram	August 2012
Groundwater Plot	<50'
TOPO Maps	August 2012
Lab Summary	08/29/2012 to 08/30/2012 and 10/18/2012
Lab Analysis	08/29/2012 to 08/30/2012 and 10/18/2012
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.	05/29/2013

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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



Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Drive, Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Winston Gas Com Btry	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		Lease No.	NM LC 063246

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	31	21S	24E					Eddy County, NM

Latitude N 32.441

Longitude W 104.536

NATURE OF RELEASE

Type of Release	Oil and Produced Water	Volume of Release	700 bbls	Volume Recovered	650 bbls
Source of Release	Gasket failure on free water knockout	Date and Hour of Occurrence	08/10/2012 @ 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?			
By Whom?	Chris Jones	Mike Bratcher-NMOCD; Terry Gregston-BLM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour 08/14/2012 @ 10:08 am			
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A gasket failure on the free water knockout caused 700 bbls of oil and produced water to leak onto the ground. 650 bbls of liquid were recovered via vacuum truck. Remediation will be performed according to a NMOCD and BLM approved remediation plan.

Describe Area Affected and Cleanup Action Taken.*

The area affected is approximately 60' x 150'. 650 bbls of oil and produced water were recovered and additional remediation will be performed according to a NMOCD and BLM approved remediation plan.

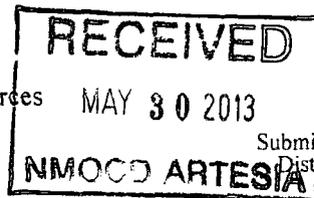
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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:		OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher.Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/24/12	Phone: (575) 328-4121		

* Attach Additional Sheets If Necessary

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Form C-141
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Facility Name	Winston Gas Com Btry	Facility Type	Gathering

Surface Owner	BLM	Mineral Owner		Lease No.	NM LC 063246
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Latitude N 32.441

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By Whom?	Chris Jones	Mike Bratcher-NMOCD; Terry Gregston-BLM			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date and Hour 08/14/2012 @ 10:08 am			
If YES, Volume Impacting the Watercourse.					

If a Watercourse was Impacted, Describe Fully.*

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A gasket failure on the free water knockout caused 700 bbls of oil and produced water to leak onto the ground. 650 bbls of liquid were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.*
The area affected is approximately 60' x 150'. 650 bbls of oil and produced water were recovered. Additional remediation was completed as described in the remediation plan approved by Mike Bratcher of NMOCD via email on 01/24/2013 and also approved by Terry Gregston of the BLM via email on 01/30/2013.

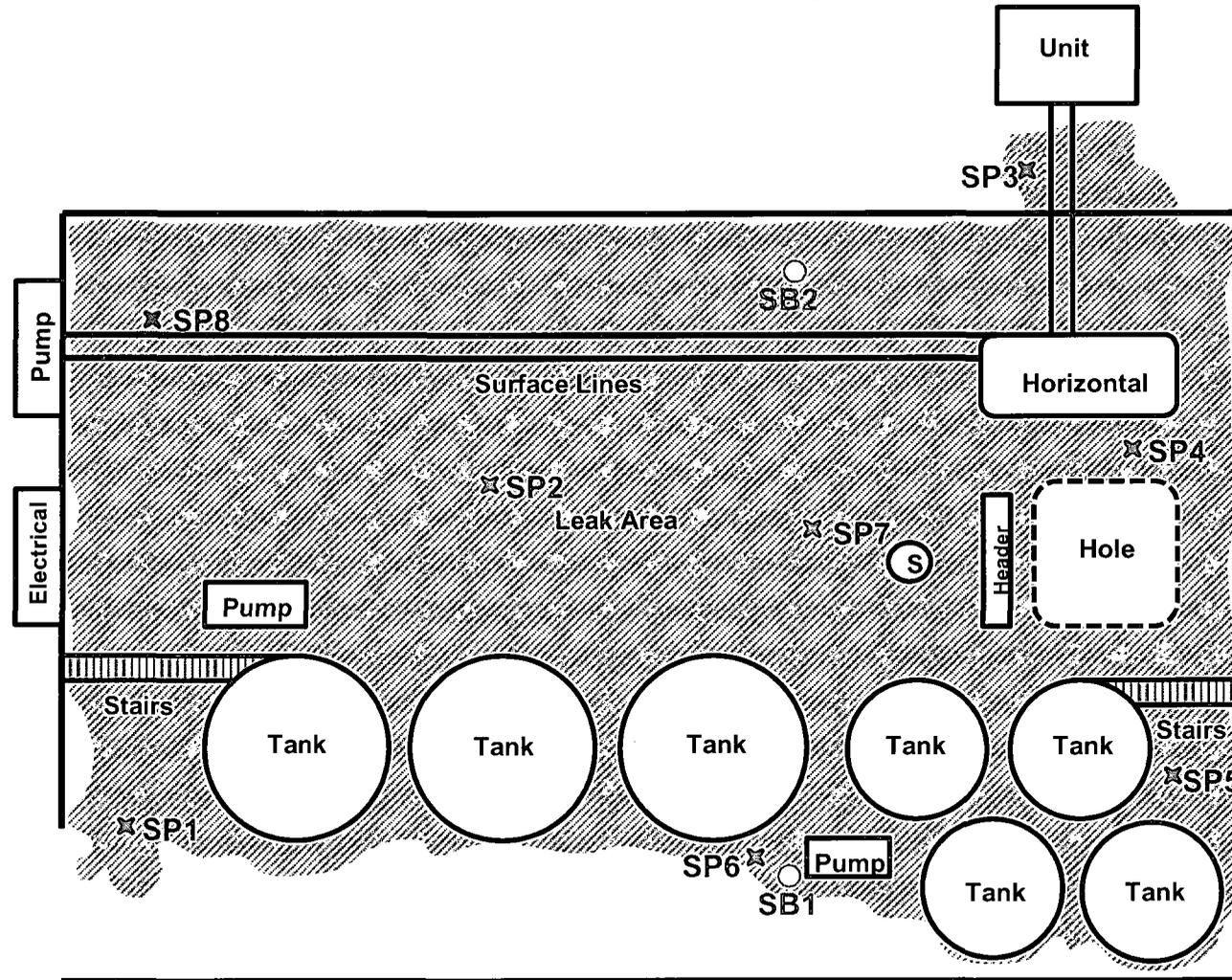
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Signature:		OIL CONSERVATION DIVISION	
Printed Name: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 5/29/13	Phone: (575) 328-4121		

* Attach Additional Sheets If Necessary



Oxy
Winston Gas Com Battery



U/L B, Section 31, T21S, R24E
Eddy County, NM
N 32.441° W 104.536°

BBC International, Inc.	
Oxy	
Winston Gas Com Battery	
Date: 08/30/2012	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



Groundwater Plot

Oxy Winston Gas Com Btry (FWKO)

County
Eddy

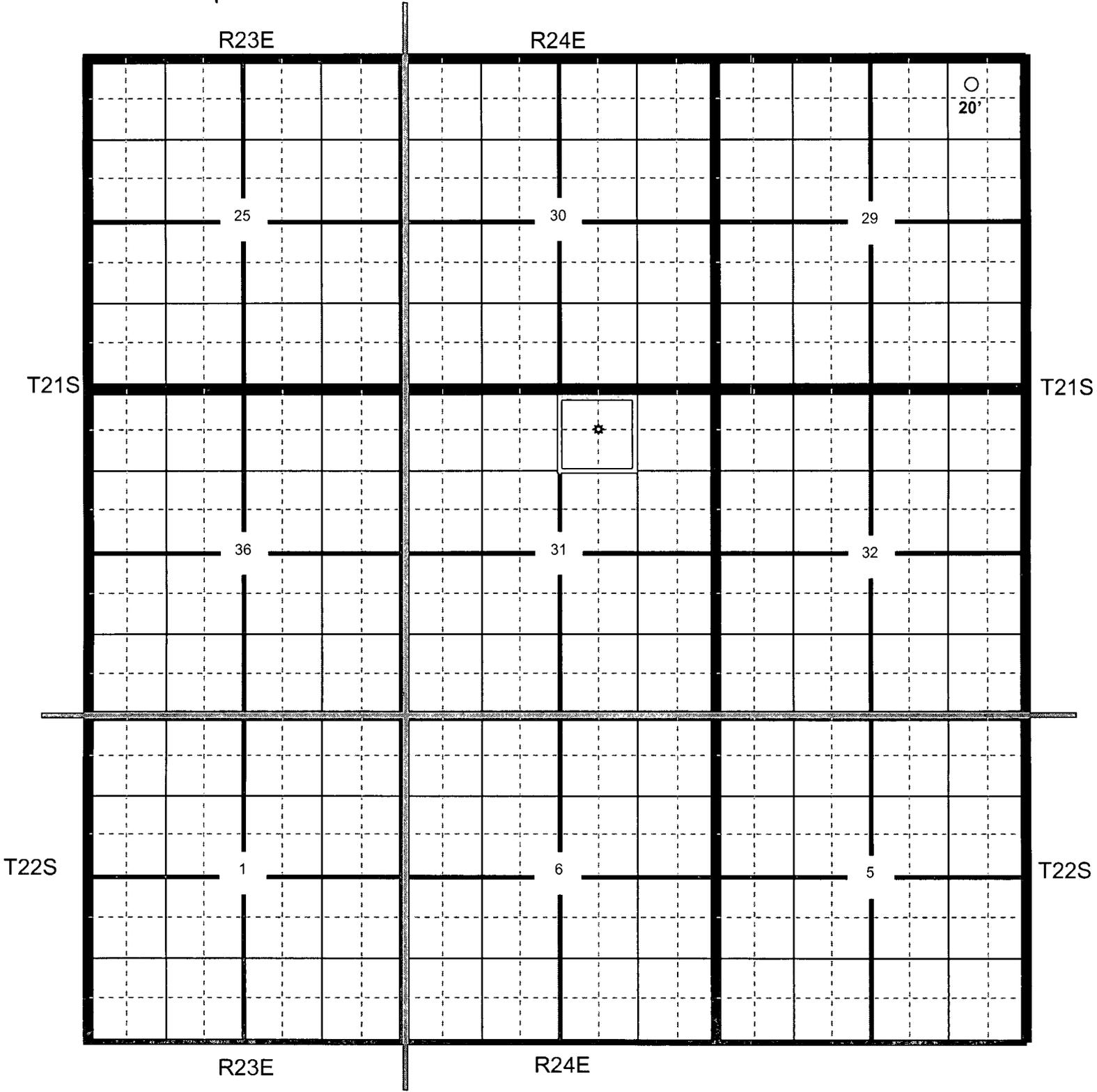
Unit Letter
B

Section
31

Township
21S

Range
24E

Trend Map <50'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Oxy Winston Gas Com Btry (FWKO)

County Eddy Unit Letter B Section 31 Township 21S Range 24E

Trend Map <50'

1

2

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

3

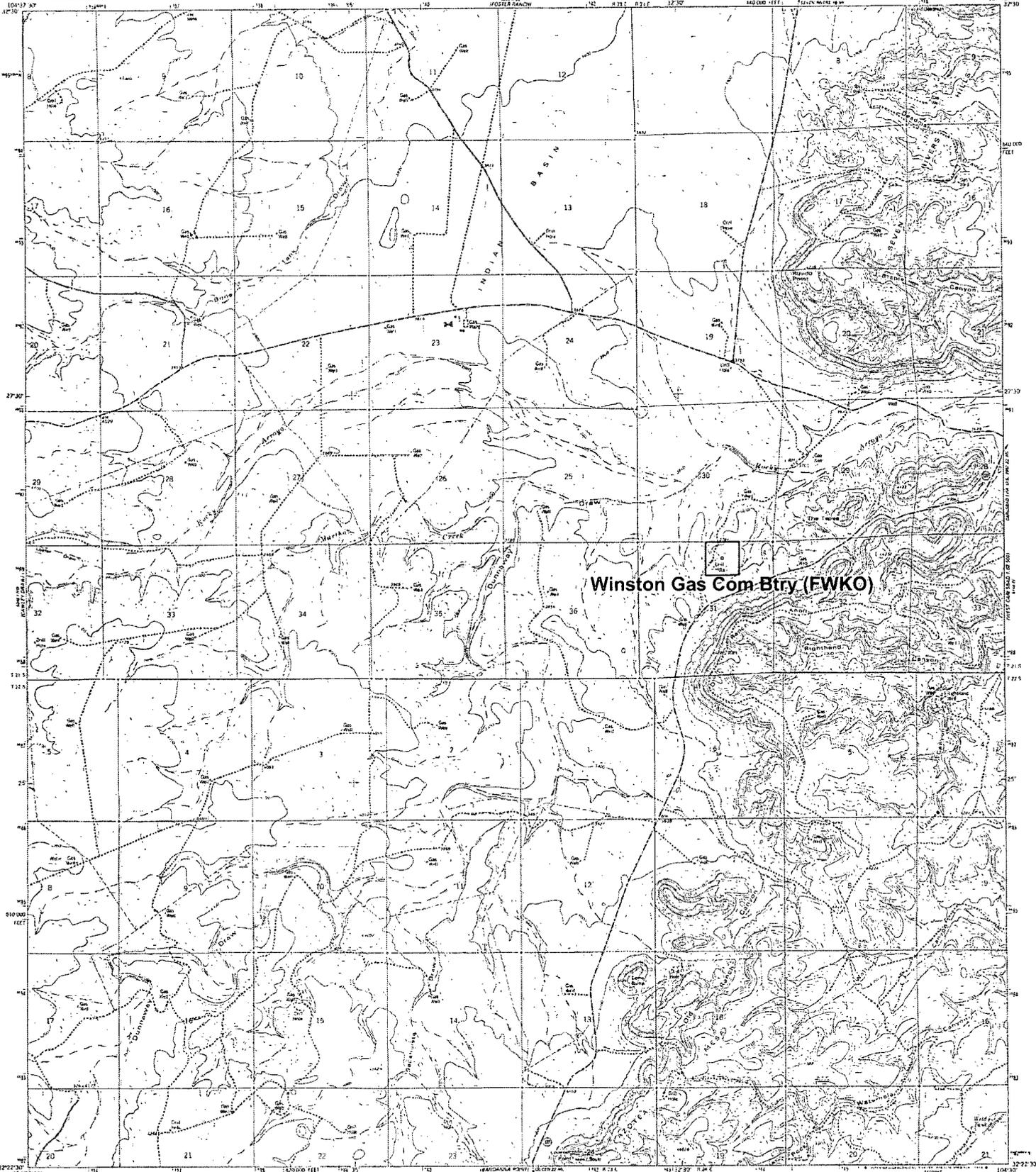
4

Oxy

Winston Gas Com Btry (FWKO)

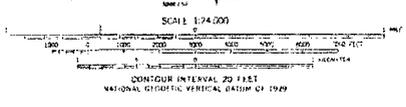
MARTHA CREEK QUADRANGLE
NEW MEXICO—EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NO. 1 BANGOR POINT 15 QUADRANGLE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Winston Gas Com Btry (FWKO)

Mapped, edited, and published by the Geological Survey
Covered by USGS and ROS/DCA
Topography by photogrammetric methods from aerial stereopairs
Since 1972. First checked 1974. Map revised 1974
Projection and 10,000 foot grid UTM, New Mexico
(and state systems) and new (latitude/longitude)
1000-meter Universal Transverse Mercator grid lines
zone 15 shown in blue. 1927 North American datum
Faint red dashed lines indicate selected fence lines



ROAD CLASSIFICATION
 Paved highway: ————
 Road surface: - - - - -
 Secondary gravel: - - - - -
 Hard surface: - - - - -
 Unimproved road: - - - - -
 Interstate Route: ————
 U.S. Route: ————
 State Route: ————

Oxy Winston Gas Com Btry (FWKO)



Laboratory Analytical Results Summary
Oxy, Winston Gas Com Battery

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'
Analyte	Method	Date	8/29/12	8/29/12	8/29/12	8/29/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.151	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.845	0.055	<0.050	<0.050
Total Xylenes	BTEX 8021B		2.08	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		176	128	64	48
GRO	TPH 8015M		274	<10.0	<10.0	<10.0
DRO	TPH 8015M		1050	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'
Analyte	Method	Date	8/29/12	8/29/12	8/29/12	8/29/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.35	0.826	0.105	<0.050
Ethylbenzene	BTEX 8021B		0.935	0.717	0.327	0.191
Total Xylenes	BTEX 8021B		3.5	3.61	0.951	0.713
Chloride	SM4500Cl-B		16	<16.0	<16.0	48
GRO	TPH 8015M		221	64	42.6	23.7
DRO	TPH 8015M		1050	274	355	267

		Sample	SP3 @ 1'	SP3 @ 3'
Analyte	Method	Date	8/30/12	8/30/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.059	<0.050
Total Xylenes	BTEX 8021B		0.37	<0.150
Chloride	SM4500Cl-B		192	240
GRO	TPH 8015M		15.3	<10.0
DRO	TPH 8015M		136	24

		Sample	SP4 @ 1'	SP4 @ 3'
Analyte	Method	Date	8/30/12	8/30/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.074	2.29
Toluene	BTEX 8021B		0.464	27.1
Ethylbenzene	BTEX 8021B		0.997	29.7
Total Xylenes	BTEX 8021B		0.762	224
Chloride	SM4500Cl-B		208	352
GRO	TPH 8015M		43.2	5840
DRO	TPH 8015M		568	4330

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	8/30/12	8/30/12	8/30/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.243	0.207	0.253
Toluene	BTEX 8021B		3.75	3.69	2.79
Ethylbenzene	BTEX 8021B		4.31	3.83	3.32
Total Xylenes	BTEX 8021B		25.6	15.9	19.6
Chloride	SM4500Cl-B		16	<16.0	16
GRO	TPH 8015M		1920	1310	499
DRO	TPH 8015M		11200	7000	5070

Laboratory Analytical Results Summary
Oxy, Winston Gas Com Battery

		Sample	SP6 @ 1'
Analyte	Method	Date	8/30/12
			mg/Kg
Benzene	BTEX 8021B		<0.200
Toluene	BTEX 8021B		2.7
Ethylbenzene	BTEX 8021B		5.98
Total Xylenes	BTEX 8021B		51.4
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		3080
DRO	TPH 8015M		9180

		Sample	SP7 @ 1'	SP7 @ 3'
Analyte	Method	Date	8/30/12	8/30/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.200
Toluene	BTEX 8021B		0.984	0.435
Ethylbenzene	BTEX 8021B		2.34	1.11
Total Xylenes	BTEX 8021B		8.87	5.65
Chloride	SM4500Cl-B		160	128
GRO	TPH 8015M		874	207
DRO	TPH 8015M		4780	1750

		Sample	SP8 @ 1'	SP8 @ 3'	SP8 @ 5'
Analyte	Method	Date	8/30/12	8/30/12	8/30/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.141	<0.050	0.12
Ethylbenzene	BTEX 8021B		0.779	0.116	0.231
Total Xylenes	BTEX 8021B		3.43	0.665	1.07
Chloride	SM4500Cl-B		176	96	200
GRO	TPH 8015M		425	23.1	25.1
DRO	TPH 8015M		1910	256	178

Soil Boring		Sample	SB1 @ 3'	SB1 @ 5'	SB1 @ 7'	SB1 @ 10'	SB1 @ 15'	SB1 @ 20'	SB1 @ 25'
Analyte	Method	Date	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.426	0.217	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.649	0.745	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.547	0.699	<0.050	0.074	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		2.15	2.05	<0.150	0.227	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		65	16	16	32	16	48	32
GRO	TPH 8015M		19.1	101	<10.0	20.5	<10.0	<10.0	<10.0
DRO	TPH 8015M		201	438	211	372	26.4	41.7	29.4

Soil Boring		Sample	SB2 @ 5'	SB2 @ 7'	SB2 @ 10'	SB2 @ 15'	SB2 @ 20'
Analyte	Method	Date	10/18/12	10/18/12	10/18/12	10/18/12	10/18/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		32	32	16	16	32
GRO	TPH 8015M		15	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		292	153	32.8	95.7	36.5

September 07, 2012

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: WINSTON GAS COM BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/31/12 15:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 1 @ 1' (H202110-01)

BTEX 8021B	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	0.151	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	0.845	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	2.08	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PIL) 243 % 89.4-126

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM					S-06			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/04/2012	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	274	50.0	09/04/2012	ND	185	92.6	200	2.07		
DRO >C10-C28	1050	50.0	09/04/2012	ND	173	86.5	200	8.43		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 158 % 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:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 1 @ 3' (H202110-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	<0.050	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	0.055	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	<0.150	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 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	128	16.0	09/04/2012	ND	400	100	400	3.92		

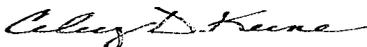
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/04/2012	ND	185	92.6	200	2.07		
DRO >C10-C28	<10.0	10.0	09/04/2012	ND	173	86.5	200	8.43		

Surrogate: 1-Chlorooctane 82.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 1 @ 5' (H202110-03)

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	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	<0.050	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	<0.050	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	<0.150	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 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	64.0	16.0	09/04/2012	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	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	<10.0	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 82.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.9 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 1 @ 7' (H202110-04)

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	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	<0.050	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	<0.050	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	<0.150	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2012	ND	400	100	400	3.92		

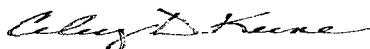
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	<10.0	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 85.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 1' (H202110-05)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	0.350	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	0.935	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	3.50	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PID) 221 % 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	09/04/2012	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	221	10.0	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	1050	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 3' (H202110-06)

BTEX 8021B	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2012	ND	1.91	95.6	2.00	5.72	
Toluene*	0.826	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99	
Ethylbenzene*	0.717	0.050	09/04/2012	ND	2.01	101	2.00	6.63	
Total Xylenes*	3.61	0.150	09/04/2012	ND	6.62	110	6.00	7.28	

Surrogate: 4-Bromofluorobenzene (PIC) 208 % 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	09/04/2012	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	64.0	10.0	09/05/2012	ND	165	82.7	200	0.544	
DRO >C10-C28	274	10.0	09/05/2012	ND	157	78.3	200	6.49	

Surrogate: 1-Chlorooctane 77.7 % 65.2-140
Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 5' (H202110-07)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2012	ND	1.91	95.6	2.00	5.72		
Toluene*	0.105	0.050	09/04/2012	ND	1.98	99.2	2.00	5.99		
Ethylbenzene*	0.327	0.050	09/04/2012	ND	2.01	101	2.00	6.63		
Total Xylenes*	0.951	0.150	09/04/2012	ND	6.62	110	6.00	7.28		

Surrogate: 4-Bromofluorobenzene (PIL) 151 % 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	09/04/2012	ND	400	100	400	3.92		

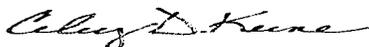
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	42.6	10.0	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	355	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 69.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 8' (H202110-08)

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	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	<0.050	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	0.191	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	0.713	0.150	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIC) 145 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/04/2012	ND	400	100	400	3.92		

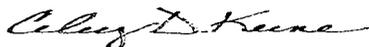
TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	23.7	10.0	09/06/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	267	10.0	09/06/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 63.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 88.9 % 63.6-154

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Analytical Results For:

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 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 3 @ 1' (H202110-09)

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	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	<0.050	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	0.059	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	0.370	0.150	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	09/04/2012	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	15.3	10.0	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	136	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 67.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 87.0 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 3 @ 3' (H202110-10)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	<0.050	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	<0.050	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	<0.150	0.150	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/04/2012	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	09/05/2012	ND	165	82.7	200	0.544		
DRO >C10-C28	24.0	10.0	09/05/2012	ND	157	78.3	200	6.49		

Surrogate: 1-Chlorooctane 71.3 % 65.2-140
Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 4 @ 1' (H202110-11)

BTEX 8021B	mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.074	0.050	09/05/2012	ND	1.88	94.0	2.00	5.09	
Toluene*	0.464	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80	
Ethylbenzene*	0.997	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27	
Total Xylenes*	0.762	0.150	09/05/2012	ND	6.47	108	6.00	6.63	

Surrogate: 4-Bromofluorobenzene (PIC) 172 % 89.4-126

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/04/2012	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	43.2	10.0	09/05/2012	ND	165	82.7	200	0.544	
DRO >C10-C28	568	10.0	09/05/2012	ND	157	78.3	200	6.49	

Surrogate: 1-Chlorooctane 74.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 4 @ 3' (H202110-12)

BTEX 8021B	mg/kg		Analyzed By: AP					S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.29	1.00	09/06/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	27.1	1.00	09/06/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	29.7	1.00	09/06/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	224	3.00	09/06/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIL) 192 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/04/2012	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5840	10.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	4330	10.0	09/06/2012	ND	174	87.1	200	15.3		

Surrogate: 1-Chlorooctane 367 % 65.2-140
Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 5 @ 1' (H202110-13)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.243	0.050	09/05/2012	ND	1.88	94.0	2.00	5.09	
Toluene*	3.75	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80	
Ethylbenzene*	4.31	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27	
Total Xylenes*	25.6	0.150	09/05/2012	ND	6.47	108	6.00	6.63	

Surrogate: 4-Bromofluorobenzene (PIL) 306 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2012	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	1920	50.0	09/06/2012	ND	161	80.4	200	9.37	
DRO >C10-C28	11200	50.0	09/06/2012	ND	174	87.1	200	15.3	

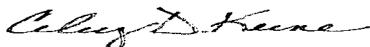
Surrogate: 1-Chlorooctane 219 % 65.2-140

Surrogate: 1-Chlorooctadecane 234 % 63.6-154

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 Fax To: (505) 397-0397

Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 5 @ 3' (H202110-14)

BTEX 8021B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.207	0.050	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	3.69	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	3.83	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	15.9	0.150	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIE) 236 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/04/2012	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	1310	50.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	7000	50.0	09/06/2012	ND	174	87.1	200	15.3		

Surrogate: 1-Chlorooctane 175 % 65.2-140
Surrogate: 1-Chlorooctadecane 265 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 5 @ 4' (H202110-15)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.253	0.050	09/05/2012	ND	1.88	94.0	2.00	5.09	
Toluene*	2.79	0.050	09/05/2012	ND	1.95	97.4	2.00	5.80	
Ethylbenzene*	3.32	0.050	09/05/2012	ND	1.99	99.4	2.00	6.27	
Total Xylenes*	19.6	0.150	09/05/2012	ND	6.47	108	6.00	6.63	

Surrogate: 4-Bromofluorobenzene (PIC) 209 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/04/2012	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	499	50.0	09/06/2012	ND	161	80.4	200	9.37	
DRO >C10-C28	5070	50.0	09/06/2012	ND	174	87.1	200	15.3	

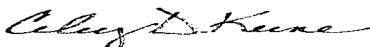
Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 218 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 6 @ 1' (H202110-16)

BTEX 8021B		mg/kg		Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	09/06/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	2.70	0.200	09/06/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	5.98	0.200	09/06/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	51.4	0.600	09/06/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIC) 190 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	09/04/2012	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	3080	50.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	9180	50.0	09/06/2012	ND	174	87.1	200	15.3		

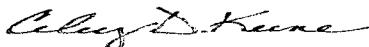
Surrogate: 1-Chlorooctane 248 % 65.2-140

Surrogate: 1-Chlorooctadecane 267 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 7 @ 1' (H202110-17)

BTEX 8021B		mg/kg		Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	0.984	0.200	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	2.34	0.200	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	8.87	0.600	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIE) 205 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/04/2012	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	874	50.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	4780	50.0	09/06/2012	ND	174	87.1	200	15.3		

Surrogate: 1-Chlorooctane 144 % 65.2-140

Surrogate: 1-Chlorooctadecane 188 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 7 @ 3' (H202110-18)

BTEX 8021B		mg/kg		Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	09/05/2012	ND	1.88	94.0	2.00	5.09		
Toluene*	0.435	0.200	09/05/2012	ND	1.95	97.4	2.00	5.80		
Ethylbenzene*	1.11	0.200	09/05/2012	ND	1.99	99.4	2.00	6.27		
Total Xylenes*	5.65	0.600	09/05/2012	ND	6.47	108	6.00	6.63		

Surrogate: 4-Bromofluorobenzene (PIC) 154 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/04/2012	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	207	10.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	1750	10.0	09/06/2012	ND	174	87.1	200	15.3		

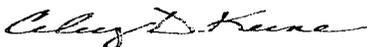
Surrogate: 1-Chlorooctane 99.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 8 @ 1' (H202110-19)

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	09/06/2012	ND	1.89	94.4	2.00	1.83		
Toluene*	0.141	0.050	09/06/2012	ND	1.99	99.6	2.00	0.153		
Ethylbenzene*	0.779	0.050	09/06/2012	ND	2.05	102	2.00	0.646		
Total Xylenes*	3.43	0.150	09/06/2012	ND	6.81	114	6.00	2.24		

Surrogate: 4-Bromofluorobenzene (PIC) 306 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/04/2012	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	425	10.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	1910	10.0	09/06/2012	ND	174	87.1	200	15.3		

Surrogate: 1-Chlorooctane 152 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Received:	08/31/2012	Sampling Date:	08/30/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 8 @ 3' (H202110-20)

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	09/06/2012	ND	1.89	94.4	2.00	1.83		
Toluene*	<0.050	0.050	09/06/2012	ND	1.99	99.6	2.00	0.153		
Ethylbenzene*	0.116	0.050	09/06/2012	ND	2.05	102	2.00	0.646		
Total Xylenes*	0.665	0.150	09/06/2012	ND	6.81	114	6.00	2.24		

Surrogate: 4-Bromofluorobenzene (PIC) 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	96.0	16.0	09/04/2012	ND	400	100	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	23.1	10.0	09/06/2012	ND	161	80.4	200	9.37		
DRO >C10-C28	256	10.0	09/06/2012	ND	174	87.1	200	15.3		

Surrogate: 1-Chlorooctane 84.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 87.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/31/2012	Sampling Date:	08/29/2012
Reported:	09/07/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 8 @ 5' (H202110-21)

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	09/06/2012	ND	1.89	94.4	2.00	1.83	
Toluene*	0.120	0.050	09/06/2012	ND	1.99	99.6	2.00	0.153	
Ethylbenzene*	0.231	0.050	09/06/2012	ND	2.05	102	2.00	0.646	
Total Xylenes*	1.07	0.150	09/06/2012	ND	6.81	114	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIC) 158 % 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	200	16.0	09/04/2012	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	25.1	10.0	09/06/2012	ND	161	80.4	200	9.37	
DRO >C10-C28	178	10.0	09/06/2012	ND	174	87.1	200	15.3	

Surrogate: 1-Chlorooctane 91.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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.				BILL TO				ANALYSIS REQUEST																						
Project Manager: Cliff Brunson				P.O. #:																										
Address: P.O. Box 805				Company:																										
City: Hobbs		State: NM		Zip: 88241		Attn:																								
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																										
Project #:		Project Owner: Oxy		City:																										
Project Name: Winston Gas Com Btry				State:				Zip:																						
Project Location: Calkins W. S.				Phone #:																										
Sampler Name: Jeff Ornelas				Fax #:																										
FOR LAB USE ONLY																														
Lab I.D.		Sample I.D.		# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE		TIME														
H202110																														
1		SP10 1'		G			/							8-29-12		10:11am		/	/	/										
2		SP10 3'		G			/							8-29-12		10:41am		/	/	/										
3		SP10 5'		G			/							8-29-12		11:11am		/	/	/										
4		SP10 7'		G			/							8-29-12		11:26am		/	/	/										
5		SP20 1'		G			/							8-29-12		1:15		/	/	/										
6		SP20 3'		G			/							8-29-12		1:27pm		/	/	/										
7		SP20 5'		G			/							8-29-12		1:37pm		/	/	/										
8		SP20 8'		G			/							8-29-12		2:12pm		/	/	/										
KAP station																														

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Relinquished By:		Date: 8/31/12		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 1:00pm				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 8/31/12		Received By:		REMARKS:			
		Time: 3:06pm		Jodi Jensen					
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: 40				Cool Intact / Yes Yes / No No					

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

#26

October 25, 2012

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: WINSTON GAS COM BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/19/12 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 3' (H202566-01)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.426	0.050	10/24/2012	ND	1.76	88.1	2.00	0.795		
Toluene*	0.649	0.050	10/24/2012	ND	1.93	96.6	2.00	1.35		
Ethylbenzene*	0.547	0.050	10/24/2012	ND	1.93	96.7	2.00	1.60		
Total Xylenes*	2.15	0.150	10/24/2012	ND	5.85	97.6	6.00	2.00		

Surrogate: 4-Bromofluorobenzene (PIC) 212 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/24/2012	ND	400	100	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	19.1	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	201	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 5' (H202566-02)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.217	0.050	10/24/2012	ND	1.76	88.1	2.00	0.795		
Toluene*	0.745	0.050	10/24/2012	ND	1.93	96.6	2.00	1.35		
Ethylbenzene*	0.699	0.050	10/24/2012	ND	1.93	96.7	2.00	1.60		
Total Xylenes*	2.05	0.150	10/24/2012	ND	5.85	97.6	6.00	2.00		

Surrogate: 4-Bromofluorobenzene (PIC) 323 % 89.4-126

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	10/24/2012	ND	400	100	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	101	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	438	10.0	10/23/2012	ND	210	105	200	1.62		

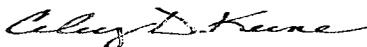
Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 7' (H202566-03)

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	10/24/2012	ND	1.76	88.1	2.00	0.795		
Toluene*	<0.050	0.050	10/24/2012	ND	1.93	96.6	2.00	1.35		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.93	96.7	2.00	1.60		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.85	97.6	6.00	2.00		

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 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	10/24/2012	ND	416	104	400	0.00		

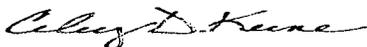
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	211	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 10' (H202566-04)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	0.074	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	0.227	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIC) 144 % 89.4-126

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	10/24/2012	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	20.5	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	372	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 90.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Caley 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:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 15' (H202566-05)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

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

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	10/24/2012	ND	416	104	400	0.00		

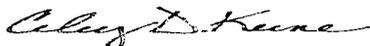
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	26.4	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 85.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Caley 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:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 20' (H202566-06)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	48.0	16.0	10/24/2012	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	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	41.7	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 1 @ 25' (H202566-07)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	32.0	16.0	10/24/2012	ND	416	104	400	0.00		

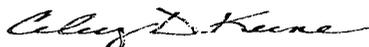
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	29.4	10.0	10/23/2012	ND	210	105	200	1.62		

Surrogate: 1-Chlorooctane 88.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 2 @ 5' (H202566-08)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

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

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	10/24/2012	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	15.0	10.0	10/23/2012	ND	192	95.9	200	1.87		
DRO >C10-C28	292	10.0	10/23/2012	ND	210	105	200	1.62		

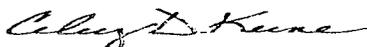
Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 2 @ 7' (H202566-09)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIC) 130 % 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	32.0	16.0	10/24/2012	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	10/24/2012	ND	171	85.4	200	3.42		
DRO >C10-C28	153	10.0	10/24/2012	ND	174	87.2	200	3.50		

Surrogate: 1-Chlorooctane 75.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.8 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 2 @ 10' (H202566-10)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	10/24/2012	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	10/24/2012	ND	171	85.4	200	3.42		
DRO >C10-C28	32.8	10.0	10/24/2012	ND	174	87.2	200	3.50		

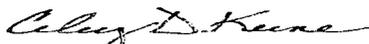
Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 2 @ 15' (H202566-11)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PII) 107 % 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	10/24/2012	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	10/24/2012	ND	171	85.4	200	3.42		
DRO >C10-C28	95.7	10.0	10/24/2012	ND	174	87.2	200	3.50		

Surrogate: 1-Chlorooctane 91.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 97.8 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/19/2012	Sampling Date:	10/18/2012
Reported:	10/25/2012	Sampling Type:	Soil
Project Name:	WINSTON GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SB 2 @ 20' (H202566-12)

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	10/24/2012	ND	1.79	89.3	2.00	10.7		
Toluene*	<0.050	0.050	10/24/2012	ND	1.97	98.5	2.00	8.78		
Ethylbenzene*	<0.050	0.050	10/24/2012	ND	1.95	97.7	2.00	8.33		
Total Xylenes*	<0.150	0.150	10/24/2012	ND	5.92	98.7	6.00	8.02		

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	32.0	16.0	10/24/2012	ND	416	104	400	0.00		

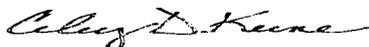
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/24/2012	ND	171	85.4	200	3.42		
DRO >C10-C28	36.5	10.0	10/24/2012	ND	174	87.2	200	3.50		

Surrogate: 1-Chlorooctane 76.8 % 65.2-140
Surrogate: 1-Chlorooctadecane 80.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

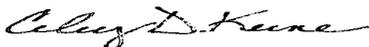
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: Oxy		City:													
Project Name: Winston Gas Com Battery		State: Zip:													
Project Location: Eddy County, NM		Phone #:													
Sampler Name: Roger Hernandez		Fax #:													

FOR LAB USE ONLY		G (G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		CL	BTEX	TPH
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE			
H202566		G			✓				✓		10/18/2012	1:50 PM	✓	✓	✓
	SB2 @ 15'	G			✓				✓		10/18/2012	2:05 PM	✓	✓	✓
	SB2 @ 20'														
KAPD 10/19/12															

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Relinquished By: <i>[Signature]</i>	Date: 10-19-12	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 10-19-12	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS:	
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>		

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

#26

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, January 24, 2013 7:22 AM
To: Cliff P. Brunson
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Oxy-Winston Gas Com Battery-Remediation Plan

Reference: OXY USA * Winston Gas Com 2 Battery * 30-015-28633 * B-31-21s-24e * Eddy County, New Mexico
NMOCD Tracking Number: 2RP-1281 * Date of release: 8/10/12

Cliff,

Your proposal for remediation of the above referenced release is approved. As we discussed, BLM approval has been obtained, so please proceed on your schedule.

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

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

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

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, January 23, 2013 5:16 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: FW: Oxy-Winston Gas Com Battery-Remediation Plan

Mike,

This message to add additional information that I left out of my e-mail below on Jan. 21, 2013. In addition to the activities described below, Oxy will dig as deep as possible allowed by hand digging in the areas of SP4 and SP5 as we previously discussed. These areas will be excavated first so these areas are exposed to the atmosphere the longest to allow for the BTEX components to degrade as much as possible prior to in the installation of the clay liner.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists

Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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From: Cliff Brunson <cbrunson@bbcinternational.com>
Date: Monday, January 21, 2013 5:06 PM
To: Mike Bratcher <mike.bratcher@state.nm.us>
Cc: Chris Jones <Christopher_Jones@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com>
Subject: Oxy-Winston Gas Com Battery-Remediation Plan

Mike,

This e-mail is to confirm our discussion on December 17, 2012 and January 14, 2013 concerning the remediation plan for the release that occurred at the Oxy Winston Gas Com Battery. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 2 feet across the entire battery area inside the berms. Then, a 1 foot compacted clay liner will be installed and then the excavation will be backfilled with clean soil. The depth to groundwater in this area is less than 50 feet.

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

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, January 30, 2013 4:02 PM
To: Kathy Purvis
Subject: FW: Undesirable Event: NU12175TG, Winston Gas Com 2 Tank Battery: Cleanup plan stipulations

Cliff P. Brunson, CEI, CRS
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From: Terry Gregston <tgregsto@blm.gov>
Date: Wednesday, January 30, 2013 2:04 PM
To: James Amos <jamos@blm.gov>, Chris Jones <Christopher_Jones@oxy.com>, Ken Swinney <kswinney@bbcinternational.com>, Mike Bratcher <mike.bratcher@state.nm.us>, Cliff Brunson <cbrunson@bbcinternational.com>
Subject: Undesirable Event: NU12175TG, Winston Gas Com 2 Tank Battery: Cleanup plan stipulations

Gentlemen,

This notification is in regard to the following location and undesirable event:

Event Number: NU12175TG
Event Date: 8/11/2012
Event Name: Winston Gas Com 2 Tank Battery
Legals: T21S/R24E, sec. 31, NWNE

The submitted cleanup plan for the above location is approved with the following conditions of approval:

Notification Stipulations:

- 1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.**
- 2. The authorized officer must be notified at the following phases of cleanup or conditions:**
 - a. Prior to moving equipment on location for cleanup

- b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
 - c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
 - d. Three days before the site is seeded.
 - e. Any time that a variance of the approved plan or conditions of approval is required.
 - f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.
3. The authorized officer on this undesirable event case is:

Terry Gregston
(575) 361-2635
tgregsto@blm.gov

Plan Implementation:

1. Cleanup actions must be initiated within **30** days of plan approval.

Archeology Stipulations:

1. There are no known archeological issues on this location.

In the event that archeological artifacts are discovered during cleanup operations, contact the authorized officer on this case immediately. An onsite will be required to assess the situation.

Special Stipulations:

1. Spillage under white chemical containers and catchments will be picked up and hauled off.
2. All loadline catchments and chemical catchments will be netted.
3. 30 days after the spill cleanup is completed, Kent Caffal, BLM PET, will be contacted to conduct an onsite production inspection (PI). Mr. Caffal can be contacted at 575-361-0063.

Facility Cleanup Stipulations:

Unlined facility:

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.
2. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms shall be built of compactable mineral material with small pore space that is capable of fluid containment.
3. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
4. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
5. Once final approval of cleanup is given, the excavation can be backfilled with 1 foot of compactable clay (as per submitted cleanup plan) topped compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
6. Install secondary containment berms of good quality compactable mineral material with small pore space that is capable of fluid containment around existing production equipment and the pad to prevent future spills from being released off the facility location.
7. Restore, recontour, and reseed any pasture disturbances that were created during the cleanup operations.

Pad Cleanup Stipulations:

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.

3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. Pad areas should be resurfaced with 6" of clean caliche on top of the backfill material.
6. Pad should be bermed with compactable mineral material with small pore space that is capable of fluid containment to prevent future spills from leaving the pad and impacting reclaimed pasture areas.

Installation of Liner Cap in Spill Cleanup Areas:

1. Liner installations must be 1 foot of high quality compacted clay as proposed in the submitted cleanup plan.

Other Stipulations:

1. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

Thank you for your attention to this matter,

Terry Gregston
Environmental Protection Specialist
Bureau of Land Management
620 E. Greene St.
Carlsbad, NM 88220
Office (575) 234-5958
Cell (575) 361-2635
Fax (575) 234-5927

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