

Bratcher, Mike, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Wednesday, January 01, 2014 1:28 PM
To: Bratcher, Mike, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Nagooltee Peak 5 Federal #2-Remediation Plan
Attachments: Remediation Packet- NP 5-2.pdf

Mike,

This e-mail is to confirm our conversation on December 18, 2013 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 1 foot in the areas depicted by SP1 and SP2. The rest of the spill area will not be disturbed due to steep terrain. The excavated area will then be backfilled with clean soil.

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

Thanks, Cliff

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

Nagooltee Peak 5 Federal #2

Location Pad

Entrance Road

Stake

Leak Point

SP1

Surface
Lines

Leak Area
59' x 42'

SP2

SP3

Leak Area
20' x 17'

SP4

Leak Area
10' x 10'

SP5

SP6

U/L E, Section 5, T22S, R24E

1562' FNL and 1202' FWL

Eddy County, NM

GPS at Stake: N 32.42378° W 104.52532°

API#30-015-28074, NM Lease # 81217

BBC International, Inc.

Oxy

Nagooltee Peak 5 Federal #2

Date: 07/17/2013

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2013



Groundwater Plot

Oxy Nagooltee Peak 5 Federal #2

County
Eddy

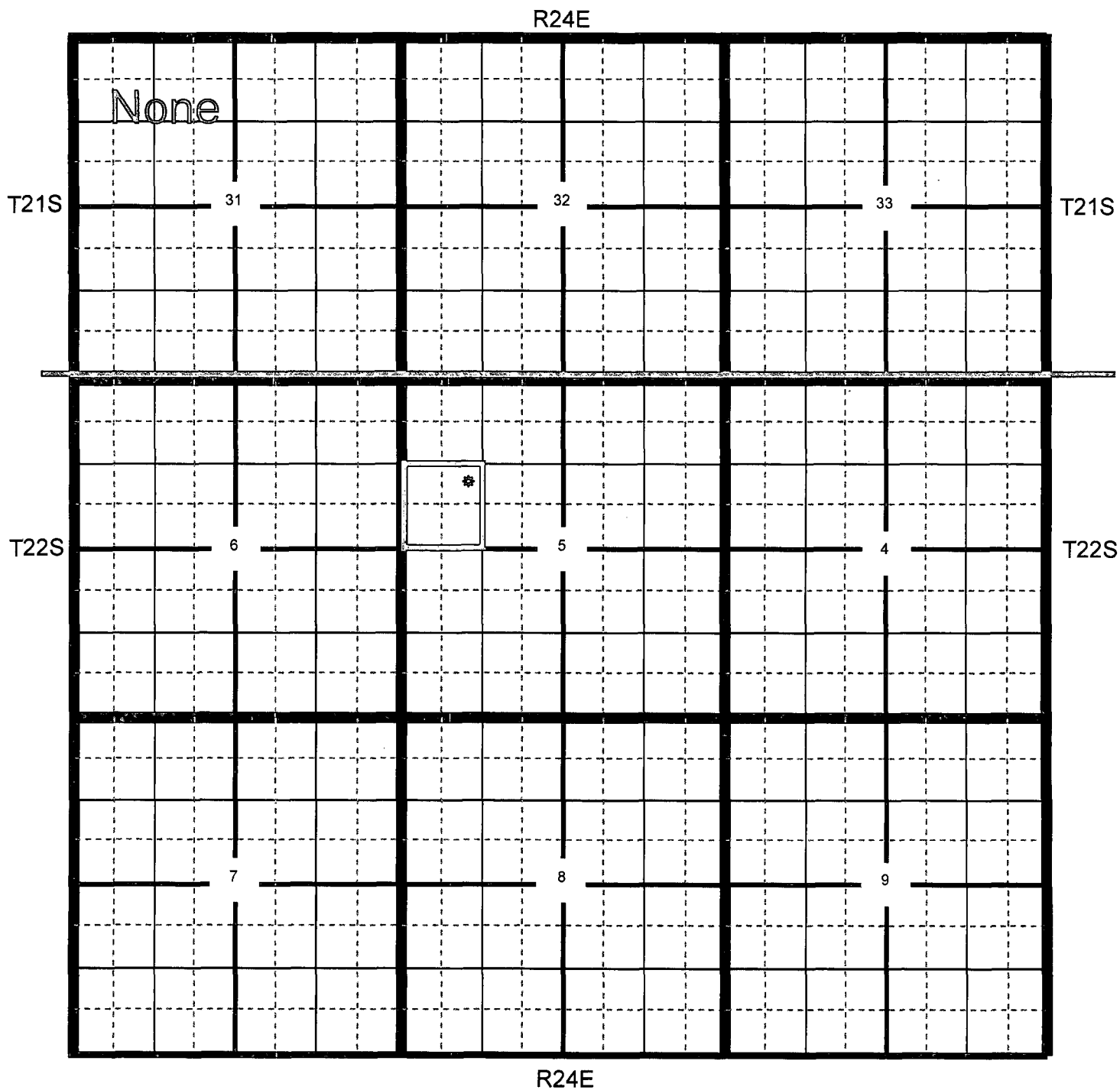
Unit Letter
E

Section
5

Township
22S

Range
24E

Trend Map <50'



★ Location

● OCD

○ USGS

● SEO

● All Databases



Section Quarters

Oxy Nagooltee Peak 5 Federal #2

County
Eddy

Unit Letter
E

Section
5

Township
22S

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 F	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

☼ Location

⊙ OCD

○ USGS

● SEO

● All Databases

Laboratory Analytical Results Summary
Nagooltee Peak 5 Fed Com #2

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.103	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.658	<0.150	<0.150
Total BTEX	BTEX 8021B		0.814	<0.300	<0.300
Chloride	SM4500Cl-B		512	480	256
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		57.4	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			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		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.412	<0.150	<0.150
Total BTEX	BTEX 8021B		0.499	<0.300	<0.300
Chloride	SM4500Cl-B		1310	496	288
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			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		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		656	1150	192
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			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		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1570	592	224
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		17	<10.0	<10.0

		Sample	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.092	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.212	<0.150	<0.150
Total BTEX	BTEX 8021B		0.336	<0.300	<0.300
Chloride	SM4500Cl-B		800	576	160
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 1.5'
Analyte	Method	Date	7/12/13	7/12/13	7/15/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.094	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.219	<0.150	<0.150
Total BTEX	BTEX 8021B		0.346	<0.300	<0.300
Chloride	SM4500Cl-B		672	576	192
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

July 19, 2013

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

RE: NAGOOLTEE PEAK 5 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/15/13 10:25.

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,



Mike Snyder
Organic Supervisor

Analytical Results For:

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H301647-01)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2013	ND	2.32	116	2.00	13.8	
Toluene*	0.103	0.050	07/16/2013	ND	2.18	109	2.00	14.6	
Ethylbenzene*	<0.050	0.050	07/16/2013	ND	2.21	110	2.00	15.2	
Total Xylenes*	0.658	0.150	07/16/2013	ND	6.53	109	6.00	13.9	
Total BTEX	0.814	0.300	07/16/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	512	16.0	07/18/2013	ND	448	112	400	3.64	

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	57.4	10.0	07/18/2013	ND	202	101	200	7.67	

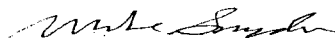
Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

 Received: 07/15/2013
 Reported: 07/19/2013
 Project Name: NAGOOLTEE PEAK 5 FED COM #2
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/12/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H301647-02)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	<0.300	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

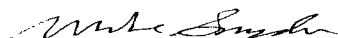
Surrogate: 1-Chlorooctane 91.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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* = Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H301647-03)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	0.412	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	0.499	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	1310	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 88.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

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Analytical Results For:

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

 Received: 07/15/2013
 Reported: 07/19/2013
 Project Name: NAGOOLTEE PEAK 5 FED COM #2
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/12/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1 FT (H301647-04)

BTEX 8021B			mg/kg							
			Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	496	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		


Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.6 % 63.6-154

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Hobbs NM, 88241
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Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H301647-05)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	<0.300	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 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	656	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	


Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Mike Snyder, Organic Supervisor

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 Cliff Brunson
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Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H301647-06)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTX	<0.300	0.300	07/18/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	07/18/2013	ND	448	112	400	3.64	

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

 Received: 07/15/2013
 Reported: 07/19/2013
 Project Name: NAGOOTEE PEAK 5 FED COM #2
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/12/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H301647-07)

BTEX 8021B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	<0.300	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	1570	16.0	07/18/2013	ND	448	112	400	3.64	

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	17.0	10.0	07/18/2013	ND	202	101	200	7.67	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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* = Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received: 07/15/2013
Reported: 07/19/2013
Project Name: NAGOOLTEE PEAK 5 FED COM #2
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/12/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1 FT (H301647-08)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	<0.300	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	592	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

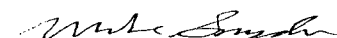
Surrogate: 1-Chlorooctane 84.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

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*=Accredited Analyte

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received: 07/15/2013
Reported: 07/19/2013
Project Name: NAGOOLTEE PEAK 5 FED COM #2
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/12/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H301647-09)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8	
Toluene*	0.092	0.050	07/18/2013	ND	2.11	106	2.00	13.7	
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6	
Total Xylenes*	0.212	0.150	07/18/2013	ND	6.77	113	6.00	13.9	
Total BTEX	0.336	0.300	07/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	800	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

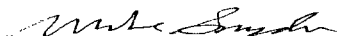
Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 1 FT (H301647-10)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/18/2013	ND	448	112	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.8 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ SURFACE (H301647-11)

BTX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	0.094	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	0.219	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTX	0.346	0.300	07/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	672	16.0	07/18/2013	ND	448	112	400	3.64		
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	07/18/2013	ND	197	98.4	200	4.69	
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67	

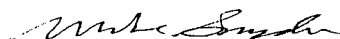
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

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Mike Snyder, Organic Supervisor

Analytical Results For:

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

Received:	07/15/2013	Sampling Date:	07/12/2013
Reported:	07/19/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 1 FT (H301647-12)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2013	ND	2.10	105	2.00	12.8		
Toluene*	<0.050	0.050	07/18/2013	ND	2.11	106	2.00	13.7		
Ethylbenzene*	<0.050	0.050	07/18/2013	ND	2.23	112	2.00	13.6		
Total Xylenes*	<0.150	0.150	07/18/2013	ND	6.77	113	6.00	13.9		
Total BTEX	<0.300	0.300	07/18/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/18/2013	ND	448	112	400	3.64		

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	07/18/2013	ND	197	98.4	200	4.69		
DRO >C10-C28	<10.0	10.0	07/18/2013	ND	202	101	200	7.67		

Surrogate: 1-Chlorooctane 84.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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Mike Snyder, Organic Supervisor

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Mike Snyder, Organic Supervisor



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>CL</div> <div>TPH</div> <div>B-TPH</div> </div>											
Address: P.O. Box 805				Company:													
City: Hobbs		State: NM		Zip: 88241													
Phone #: 575-397-6388		Fax #: 575-397-0397		Attn:													
Project #:		Project Owner: JXY		Address:													
Project Name: Ragoltee Peake 5-2		City: <i>same</i>		State:													
Project Location: Carl's Dad		Zip:		Phone #:													
Sampler Name: JEFF or NIKS		Fax #:															

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CL	TPH	B-TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER					
H301647																	
1	SP2@ Surface	6	1			X				X			7-12-13	10:35	X	X	X
2	SP2@ 2FT	6	1			X				X			7-12-13	11:15	X	X	X
3	SP2@ Surface	6	2			X				X			7-12-13	11:39	X	X	X
4	SP2@ Surface 2FT	6	2			X				X			7-12-13	12:00	X	X	X
5	SP3@ Surface	6	1			X				X			7-12-13	1:11	X	X	X
6	SP3@ 2FT	6	1			X				X			7-12-13	1:20	X	X	X
7	SP4@ Surface	6	1			X				X			7-12-13	1:36	X	X	X
8	SP4@ 2FT	6	1			X				X			7-12-13	2:00	X	X	X
9	SP5@ Surface	6	1			X				X			7-12-13	2:15	X	X	X
10	SP5@ 2FT	6	1			X				X			7-12-13	2:31	X	X	X

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Relinquished By:	Date: 11/15/13	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<i>Jeff</i>	Time: 10:25	<i>Jodi Benson</i>	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 <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>JH</i>		

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

#54



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Page 16 of 16

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

#54

July 23, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NAGOOLTEE PEAK 5 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 07/17/13 16:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 1 @ 1 1/2 (H301678-01)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	256	16.0	07/22/2013	ND	432	108	400	3.77		

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	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

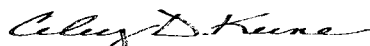
Surrogate: 1-Chlorooctane 87.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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: (575) 397-0397

Received:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 2 @ 1 1/2 (H301678-02)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	288	16.0	07/22/2013	ND	432	108	400	3.77	

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	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	

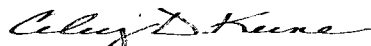
Surrogate: 1-Chlorooctane 76.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/17/2013	Sampling Date:	07/15/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOTTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 3 @ 1 1/2 (H301678-03)

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTX	<0.300	0.300	07/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	192	16.0	07/22/2013	ND	432	108	400	3.77	

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	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	

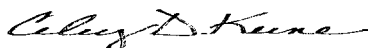
Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/17/2013
Reported: 07/23/2013
Project Name: NAGOOLTEE PEAK 5 FED COM #2
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/16/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1 1/2 (H301678-04)

BTX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTEX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	224	16.0	07/22/2013	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	

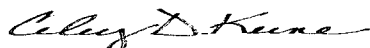
Surrogate: 1-Chlorooctane 81.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.9 % 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: (575) 397-0397

Received:	07/17/2013	Sampling Date:	07/16/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 5 @ 1 1/2 (H301678-05)

BTX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3		
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9		
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6		
Total BTX	<0.300	0.300	07/22/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	160	16.0	07/22/2013	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	07/22/2013	ND	184	91.8	200	1.99		
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15		

Surrogate: 1-Chlorooctane 80.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 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: (575) 397-0397

Received:	07/17/2013	Sampling Date:	07/16/2013
Reported:	07/23/2013	Sampling Type:	Soil
Project Name:	NAGOOLTEE PEAK 5 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP 6 @ 1 1/2 (H301678-06)

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2013	ND	2.02	101	2.00	10.3	
Toluene*	<0.050	0.050	07/22/2013	ND	2.03	102	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/22/2013	ND	2.16	108	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/22/2013	ND	6.53	109	6.00	11.6	
Total BTEX	<0.300	0.300	07/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	192	16.0	07/22/2013	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	07/22/2013	ND	184	91.8	200	1.99	
DRO >C10-C28	<10.0	10.0	07/22/2013	ND	193	96.6	200	3.15	

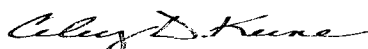
Surrogate: 1-Chlorooctane 85.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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* = Accredited Analyte

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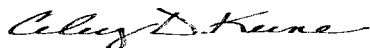
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 9 of 9

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

#54

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 Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	Nagooltee Peak 5 Federal #2	Facility Type	
Surface Owner	BLM	Mineral Owner	API No. 30-015-28074

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	5	22S	24E	1562	North	1202	West	Eddy County, NM

Latitude N 32.42378° Longitude W 104.52532°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	60 bbls	Volume Recovered	0 bbls
Source of Release	Hole in steel flow line	Date and Hour of Occurrence	07/11/2013	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 and Jean Marie Warren- OCD, James Amos- BLM		
By Whom?	Christopher Jones	Date and Hour	07/12/2013 @ 10:54 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 hole in a steel flow line caused 60 bbls of produced water to leak onto the ground. No fluids were recovered. The line was repaired.					
Describe Area Affected and Cleanup Action Taken.* The affected area is approximately 200' x 60'. Remediation will be completed in accordance with a 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: 		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: 7-29-13 Phone: (575) 628-4121					

* Attach Additional Sheets If Necessary