

Bratcher, Mike, EMNRD

From: Christopher_Jones@oxy.com
Sent: Monday, August 20, 2012 6:42 AM
To: Bratcher, Mike, EMNRD
Cc: kswinney@bbcinational.com; cbrunson@bbcinational.com
Subject: Rogers 23#3

Mike,

Attached is the soil analysis from the Rogers leak. The land owner is wanting this work expedited and we have been working diligently trying to accommodate him because he is trying plant his field, he is wanting to plant this week. After looking at the lab results and talking to Ken and Cliff at BBC we feel as though if we excavated 4' of soil and back field with top soil that could accommodate the land owner and the OCD. If you concur we would like to go ahead and get this taken care of asap for the land owners sake. Please let me know you thoughts, any concerns, or any recommendations, thank you.

Chris Jones
HES Specialist
Permian Primary Production
Carlsbad, NM
Cell 575-499-3337
Off 575-628-4121

"We do not inherit the earth from
our ancestors; we borrow it from
our children." Chief Seattle

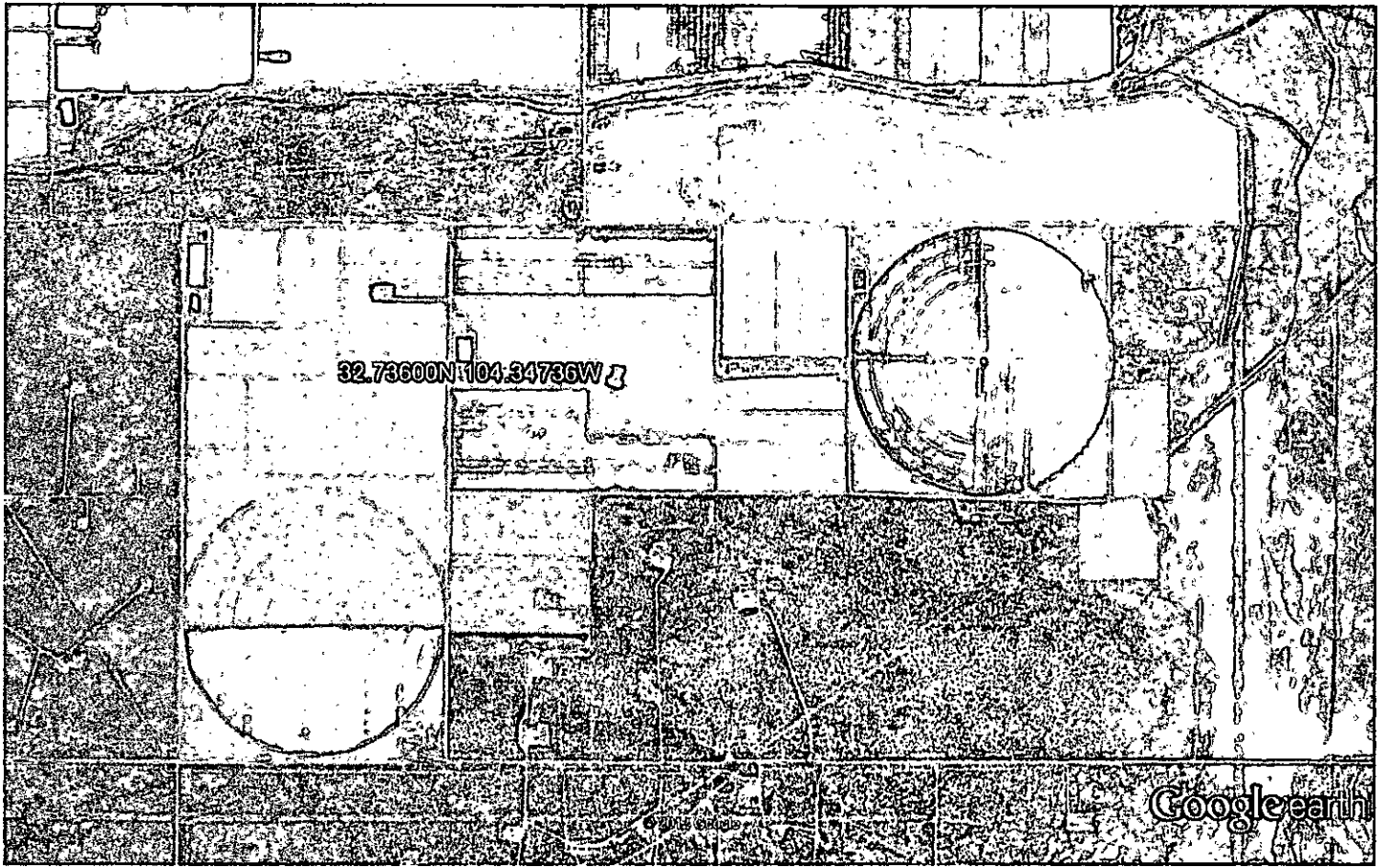
8/21- Rogers #3 015-39849 23-18-26
& don't have C-141 - per Chris - it is
on the way

32. 73600

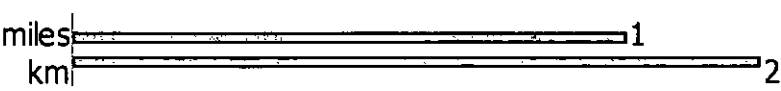
104. 34736

Reported 8/14 - 290 bbls
oil & PW
1 bbl/rec
via email





Google earth





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

Sec 22, 23, 24, 14 & 26 - 18s - 26e

POD Number	POD Code	Subbasin	County	64	16	4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 00773			ED	1	2	23	18S	26E	560856	3622508*				
RA 00774			ED	1	2	23	18S	26E	560856	3622508*				
RA 00775			ED	1	2	23	18S	26E	560856	3622508*		900		
RA 01144 -S			CH	3	1	23	18S	26E	560055	3622102*		809		
RA 01296			ED	3	3	1	23	18S	26E	559954	3622001*	180	80	100
RA 01296 CLW229885	O		ED	1	3	1	23	18S	26E	559954	3622201*	180	70	110
RA 01343 CLW	O		CH	1	2	4	14	18S	26E	561157	3623417*	150	23	127
RA 01881			ED	3	3	26	18S	26E	560060	3619681*		2450		
RA 02132 B			ED	1	2	1	24	18S	26E	561958	3622611*	166		
RA 03340			ED	3	1	22	18S	26E	558454	3622097*		100	60	40
RA 03409			ED	1	4	2	24	18S	26E	562763	3622210*	175	18	157
RA 03409 REPAR			ED	2	4	2	24	18S	26E	562963	3622210*	175	18	157
RA 03580			ED	3	1	22	18S	26E	558454	3622097*		1700		
RA 03585			ED	4	1	4	14	18S	26E	560955	3623216*	1849		
RA 03598			ED	1	3	2	22	18S	26E	559154	3622198*	1815		
RA 03599			ED	2	1	1	22	18S	26E	558552	3622599*	1765		
RA 03600			ED	2	3	2	14	18S	26E	560956	3623821*	955		
RA 03731			ED	1	1	1	14	18S	26E	559953	3624223*	120	30	90
RA 03750			ED	3	4	24	18S	26E	562465	3621299*		110	35	75
RA 03771			ED	3	1	3	22	18S	26E	558354	3621592*	110	75	35
RA 03900			ED	1	3	1	24	18S	26E	561557	3622206*	845	90	755
RA 04018			CH	3	3	4	26	18S	26E	560762	3619581*	250		
RA 04701			ED	3	3	22	18S	26E	558456	3621290*		80	55	25
RA 07219			ED	4	26	18S	26E	561064	3619883*		110	50	60	
RA 07242 -EXPL			ED	3	4	26	18S	26E	560863	3619682*		102	55	47
RA 07242 EXP			ED	3	4	26	18S	26E	560863	3619682*		102	55	47
RA 07243 -EXPL			ED	3	4	26	18S	26E	560863	3619682*		110	50	60

*UTM location was derived from PLSS - see Help

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD														
Q Q Q														
Depth Depth Water														
POD Number	Code	Subbasin	County	64	16	4	Sec	Tws	Rng	X	Y	Well	Water	Column
RA 07243 EXP			ED	3	4	26	18S	26E	560863	3619682*	110	50	60	
RA 07243 EXPL			ED	3	4	26	18S	26E	560863	3619682*	110	50	60	
RA 09466			ED	3	3	1	22	18S	26E	558353	3621996*	160	70	90
RA 11506 POD1			ED	1	3	3	22	18S	26E	558290	3621345	160	78	82
RA 11784 POD1			ED	1	2	2	22	18S	26E	559480	3622632	154	98	56

Average Depth to Water: **55 feet**

Minimum Depth: **18 feet**

Maximum Depth: **98 feet**

Record Count: 32

PLSS Search:

Section(s): 22, 23, 24, 14, 26 Township: 18S Range: 26E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Well Selection Criteria Quick Print

tblWellMaster.api_wellno Like '30015398490000'

API Well #	Well Name and No.	Operator Name	Typ	Stat	County	Surf	UL	Sec	Twp	Rng	Ft N/S	Ft E/W	UICPrmt	Lst Insp Dt
30-015-39849-00-00	ROGERS	003 OXY USA INC	O	N	Eddy	P	H	23	18 S	26 E	1650 N	990 E		

Laboratory Analytical Results Summary
Rogers 003

Analyte	Method	Sample Date	SP1 @ 3 ft mg/Kg	SP1 @ 5 ft mg/Kg	SP2 @ 6 ft mg/Kg	SP2 @ 3 ft mg/Kg	SP2 @ 5 ft mg/Kg	SP2 @ 5 ft mg/Kg	SP3 @ 3 ft mg/Kg	SP3 @ 5 ft mg/Kg	SP3 @ 6 ft mg/Kg
Benzene	BTEX 8021B		2.91	<0.050	<0.050	2.42	<0.050	<0.050	3.11	<0.050	<0.050
Toluene	BTEX 8021B		30.9	0.093	<0.050	21.6	0.095	0.287	25.7	<0.050	0.075
Ethylbenzene	BTEX 8021B		40.9	0.113	0.052	26.9	0.139	0.509	29.2	0.062	0.142
Total Xylenes	BTEX 8021B		101	0.331	<0.150	65.6	0.418	1.36	70.2	<0.150	0.364
Chloride	SM4500Cl-B		240	176	240	144	496	560	128	432	544
GRO	TPH 8015M		2740	<10.0	<10.0	1340	<10.0	<10.0	1670	<10.0	<10.0
DRO	TPH 8015M		11700	21.8	81.6	4970	35.0	30.7	5340	30.5	28.7

Analyte	Method	Sample Date	SP4 @ 3 ft mg/Kg	SP4 @ 5 ft mg/Kg	SP4 @ 6 ft mg/Kg	SP5 @ 3 ft mg/Kg	SP5 @ 5 ft mg/Kg	SP5 @ 6 ft mg/Kg
Benzene	BTEX 8021B		3.99	<0.050	<0.050	12.4	<0.050	0.164
Toluene	BTEX 8021B		39.1	<0.050	0.064	64.0	0.101	1.42
Ethylbenzene	BTEX 8021B		41.9	0.071	0.081	47.1	0.103	1.49
Total Xylenes	BTEX 8021B		100	0.153	0.170	111	0.226	3.81
Chloride	SM4500Cl-B		208	160	144	1060	208	240
GRO	TPH 8015M		2280	<10	11.3	1180	<10.0	24.8
DRO	TPH 8015M		6020	17.1	50.1	2490	<10.0	97.6



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

August 17, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ROGER'S 23 #3

Enclosed are the results of analyses for samples received by the laboratory on 08/16/12 10:50.

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

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: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

 Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H201916-01)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.91	0.200	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	30.9	0.200	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	40.9	0.200	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	101	0.600	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 233 % 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	240	16.0	08/16/2012	ND	416	104	400	0.00	
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	2740	50.0	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	11700	50.0	08/16/2012	ND	201	100	200	3.86	

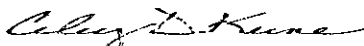
Surrogate: 1-Chlorooctane 265 % 65.2-140

Surrogate: 1-Chlorooctadecane 269 % 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: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H201916-02)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	0.093	0.050	08/16/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	0.113	0.050	08/16/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	0.331	0.150	08/16/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	176	16.0	08/16/2012	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	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	21.8	10.0	08/16/2012	ND	201	100	200	3.86	

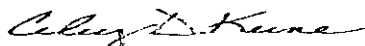
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

 Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6' (H201916-03)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	<0.050	0.050	08/16/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	0.052	0.050	08/16/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	<0.150	0.150	08/16/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 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	240	16.0	08/16/2012	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	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	81.6	10.0	08/16/2012	ND	201	100	200	3.86	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

 Received: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

 Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H201916-04)

BTX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.42	0.200	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	21.6	0.200	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	26.9	0.200	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	65.6	0.600	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIE) 193 % 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	144	16.0	08/16/2012	ND	416	104	400	0.00	

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	1340	50.0	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	4970	50.0	08/16/2012	ND	201	100	200	3.86	

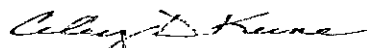
Surrogate: 1-Chlorooctane 172 % 65.2-140

Surrogate: 1-Chlorooctadecane 170 % 63.6-154

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P.O. Box 805
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Fax To: (505) 397-0397

Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 5' (H201916-05)

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2012	ND	1.78	89.2	2.00	2.30		
Toluene*	0.095	0.050	08/16/2012	ND	2.12	106	2.00	4.43		
Ethylbenzene*	0.139	0.050	08/16/2012	ND	2.21	111	2.00	4.42		
Total Xylenes*	0.418	0.150	08/16/2012	ND	7.24	121	6.00	2.58		

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	496	16.0	08/16/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	35.0	10.0	08/16/2012	ND	201	100	200	3.86	

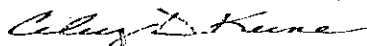
Surrogate: 1-Chlorooctane 94.3 % 63.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Received: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 6' (H201916-06)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2012	ND	1.78	89.2	2.00	2.30		
Toluene*	0.287	0.050	08/16/2012	ND	2.12	106	2.00	4.43		
Ethylbenzene*	0.509	0.050	08/16/2012	ND	2.21	111	2.00	4.42		
Total Xylenes*	1.36	0.150	08/16/2012	ND	7.24	121	6.00	2.58		

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 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	560	16.0	08/16/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	30.7	10.0	08/16/2012	ND	201	100	200	3.86	

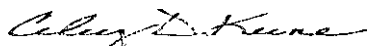
Surrogate: 1-Chlorooctane 96.4 % 65.2-140

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: (505) 397-0397

 Received: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

 Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H201916-07)

BTEx 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.11	0.200	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	25.7	0.200	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	29.2	0.200	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	70.2	0.600	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 206 % 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	128	16.0	08/16/2012	ND	416	104	400	0.00	
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	1670	50.0	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	5340	50.0	08/16/2012	ND	201	100	200	3.86	

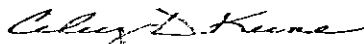
Surrogate: 1-Chlorooctane 185 % 65.2-140

Surrogate: 1-Chlorooctadecane 174 % 63.6-154

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Hobbs NM, 88241
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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H201916-08)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	<0.050	0.050	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	0.062	0.050	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	<0.150	0.150	08/17/2012	ND	7.24	121	6.00	2.58	

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	432	16.0	08/16/2012	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	08/16/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	30.5	10.0	08/16/2012	ND	201	100	200	3.86	

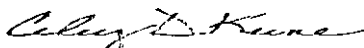
Surrogate: 1-Chlorooctane 95.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 6' (H201916-09)

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	0.075	0.050	08/16/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	0.142	0.050	08/16/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	0.364	0.150	08/16/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	544	16.0	08/16/2012	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	08/17/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	28.7	10.0	08/17/2012	ND	201	100	200	3.86	

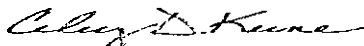
Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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 Received: 08/16/2012
 Reported: 08/17/2012
 Project Name: ROGER'S 23 #3
 Project Number: NONE GIVEN
 Project Location: ARTESIA, NEW MEXICO

 Sampling Date: 08/15/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H201916-10)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.99	0.500	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	39.1	0.500	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	41.9	0.500	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	100	1.50	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIE) 162 % 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	208	16.0	08/16/2012	ND	416	104	400	0.00	
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	2280	50.0	08/17/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	6020	50.0	08/17/2012	ND	201	100	200	3.86	

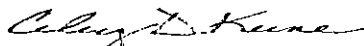
Surrogate: 1-Chlorooctane 204 % 65.2-140

Surrogate: 1-Chlorooctadecane 183 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 5' (H201916-11)

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2012	ND	1.78	89.2	2.00	2.30		
Toluene*	<0.050	0.050	08/17/2012	ND	2.12	106	2.00	4.43		
Ethylbenzene*	0.071	0.050	08/17/2012	ND	2.21	111	2.00	4.42		
Total Xylenes*	0.153	0.150	08/17/2012	ND	7.24	121	6.00	2.58		

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	160	16.0	08/16/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

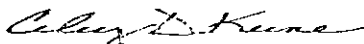
Surrogate: 1-Chlorooctane 97.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 6' (H201916-12)

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	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	0.064	0.050	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	0.081	0.050	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	0.170	0.150	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 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	144	16.0	08/16/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

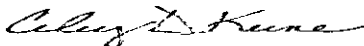
Surrogate: 1-Chlorooctane 93.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H201916-13)

BTEx 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.4	0.200	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	64.0	0.200	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	47.1	0.200	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	111	0.600	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 206 % 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	1060	16.0	08/16/2012	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	1180	50.0	08/17/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	2490	50.0	08/17/2012	ND	201	100	200	3.86	

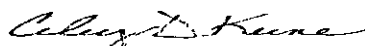
Surrogate: 1-Chlorooctane 138 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 5' (H201916-14)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2012	ND	1.78	89.2	2.00	2.30		
Toluene*	0.101	0.050	08/17/2012	ND	2.12	106	2.00	4.43		
Ethylbenzene*	0.103	0.050	08/17/2012	ND	2.21	111	2.00	4.42		
Total Xylenes*	0.226	0.150	08/17/2012	ND	7.24	121	6.00	2.58		

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

Chloride, 5M4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/16/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Received: 08/16/2012
Reported: 08/17/2012
Project Name: ROGER'S 23 #3
Project Number: NONE GIVEN
Project Location: ARTESIA, NEW MEXICO

Sampling Date: 08/15/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 6' (H201916-15)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.164	0.050	08/17/2012	ND	1.78	89.2	2.00	2.30	
Toluene*	1.42	0.050	08/17/2012	ND	2.12	106	2.00	4.43	
Ethylbenzene*	1.49	0.050	08/17/2012	ND	2.21	111	2.00	4.42	
Total Xylenes*	3.81	0.150	08/17/2012	ND	7.24	121	6.00	2.58	

Surrogate: 4-Bromofluorobenzene (PIL) 152 % 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	240	16.0	08/16/2012	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	24.8	10.0	08/17/2012	ND	191	95.4	200	0.211	
DRO >C10-C28	97.6	10.0	08/17/2012	ND	201	100	200	3.86	

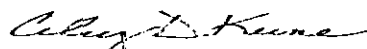
Surrogate: 1-Chlorooctane 99.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

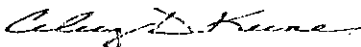
Notes and Definitions

- 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.		P.O. #:		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		Company:																	
Address: P.O. Box 805		City: Hobbs		State: NM Zip: 88241															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: Same															
Project #:		Project Owner: Oxy		City:															
Project Name: Boy's 23 #3		State:		Zip:															
Project Location: 1st Street		Phone #:																	
Sample Name: 1st Street		Fax #:																	
FOR LAB USE ONLY		MATRIX		PRESERV SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		DATE TIME															
		# CONTAINERS																	
H201916	1	SP103	X	X	6:15	1250	X	X	X										
	2	SP105	X	X		119		X	X	X									
	3	SP106	X	X		126		X	X	X									
	4	SP203	X	X		223		X	X	X									
	5	SP205	X	X		241		X	X	X									
	6	SP206	X	X		252		X	X	X									
	7	SP203	X	X		311		X	X	X									
	8	SP205	X	X		325		X	X	X									
	9	SP206	X	X		333		X	X	X									
	10	SP203	X	X		249		X	X	X									
PLEASE NOTE: Liability and damages are limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated sections of contract.		Relinquished By: [Signature]		Date: 8/11/12		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add Phone #:											
Relinquished By: [Signature]		Date: 8/11/12		Time: 10:50		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add Fax #:											
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		REMARKS:													
Sampler - UPS - Bus - Other: 1c		Cool/Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) [Signature]		PUSH													

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

#26



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		City: Hobbs		State: NM		Zip: 88241	
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>SPAC</i>			
Project #:		Project Owner: <i>ONY</i>		City:			
Project Name: <i>Rogers 23 #3</i>		State: <i>Zip:</i>		Phone #:			
Project Location: <i>1425 S. 2nd Ave</i>		Fax #:		PRESERV		SAMPLING	
Sampler Name: <i>1011 Clinic</i>		FOR LAB USE ONLY		DATE		TIME	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL -	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H2D1916	11	SPAC	1	X						8-15	4:01	X	X	X
	12	SPAC	1	X							4:09	X	X	X
	13	SPAC	1	X							4:16	X	X	X
	14	SPAC	1	X							4:29	X	X	X
	15	SPAC	1	X							4:39	X	X	X

PLEASE NOTE: Liability and coverage are voided if the sample is not sealed in the manner and by the date specified in the application. Analysis of data, including those for organics and any other, shall be waived unless made in writing and approved by the client within 30 days after completion of the application. In no event shall the client be liable for recovery of consequential damages, including those for lost profits, arising from the use of the data, as submitted, without the express written consent of the client. The client shall be responsible for the accuracy of the data and for the accuracy of the data submitted.

Relinquished By: <i>W. Decker</i>		Date: <i>8-16</i>		Received By: <i>Cliff Brunson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:	
Time:		Time:		Time:		Time:	

Delivered By: (Circle One) *PC* Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

Checked By: *W. Decker*

Remarks: *RUSH*