OXY Midrow / Varer Cangon & Fed # 5 6-9-11 Surface. Twes Sep ~ GPJ~ Hester Spi @ N-32.42341 1X 41-104.50318 5p2@ N.32.42342 W. 104.50311 4X 5p3Q-11. 32, 42335 ł 104.50 314 ł ۷ -3X-1 10N. 32.42347 50 ZX 104.50313 Ľ CP5 QN. 32.42345 W.104.50295 5+6@N. 32.42 340 ŧ W.104.50200 5 X 1 -5p7 @ 11. 32.42 34° ş W. 104. 50274 flare 3 . . : : 6X location Bern . . 7× pasture ÷.,

9w 50'



June 20, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: JONES CANYON 4 FED #5

Enclosed are the results of analyses for samples received by the laboratory on 06/15/11 17:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated 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 (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,

Celicz D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H101252-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	0.849	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	0.704	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	4.96	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/17/2011	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	12300	100	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	80.7	% 70-130							
Surrogate: I-Chlorooctadecane	105	% 70-130							

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Celey D. Kuna

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soll
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H101252-02)

TPH 8015M	mg/	/kg	Analyze	d By: CK		····			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	67.6	%		··· ·· ·· ··					
Surrogate: 1-Chlorooctadecane	87. 3	% 70-130	I.						

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H101252-03)

BTEX 8021B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2,00	3.90	
Total Xylenes*	<0.150	0.150	06/20/2011	ND	6.00	100	6.00	4.06	
Surrogate: 4-Bromofluorobenzene (PIL	97.1	% 70-130					· · · · · · · · · · · · · · · · · · ·		
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/17/2011	ND	432	108	400	0.00	
ТРН 8015М	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	87.1	% 70-130	· ·			·····			
Surrogate: 1-Chlorooctadecane	101 9	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/15/2011	•	Sampling Date:	06/09/2011
Reported:	06/20/2011		Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN		Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN			

Sample ID: SP 2 @ 2' (H101252-04)

ТРН 8015М	mg,	/kg	Analyze	d By: CK			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	93,2	% 70-130	}						
Surrogate: 1-Chlorooctadecane	107	% 70-130	ł						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H101252-05)

BTEX 8021B	mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	0.783	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	0.274	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	5.78	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

Surrogate: 4-Bromofluorobensene (PII. 102 % 70-130

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/17/2011	ND	432	108	400	0.00	
трн 8015м	mg,	'kg	Analyze	d By: CK		·			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/19/2011	, ND	232	116	200	5.92	
DRO >C10-C28	31200	100	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	138 :	70-130							
Surrogate: 1-Chlorooctadecane	141	% 70-130	•						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H101252-06)

TPH 8015M	mg,	/kg	Analyze	d By: CK					
Алајуте	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	87.8	% 70-130	}				- 		
Surrogate: 1-Chlorooctadecane	105	% 70-130	1						

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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:	06/15/2011	Sampling Date:	06/09/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H101252-07)

BTEX 8021B	mg/	/kg	Analyze	d By: CMS			·····		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	0.166	0.150	06/20/2011	ND	6.00	100	6.00	4.06	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 70-130)						
Chloride, SM4500Cl-B	mg)	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	06/17/2011	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Алајуze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DR0 >C10-C28	240	10.0	06/19/2011	ND	229	115	200	1.08	

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Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

127%

137%

70-130

70-130



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

Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H101252-08)

BTEX 8021B	mg,	/kg	Analyze	d By: CMS			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2,02	101	2.00	3.90	
Total Xylenes*	<0.150	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

Surrogate: 4-Bromofluorobenzene (PIL 93.2 % 70-130

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	06/17/2011	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	107	% 70-130	,						
Surrogate: 1-Chlorooctadecane	122	% 70-130							

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Celey D. Keene, Lab Director/Quality Manager

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Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H101252-09)

βTEX 8021B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Biank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND .	1.89	94.5	2.00	3.65	,
Toluene*	<0.050	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	<0.050	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	0.335	0.150	06/20/2011	ND	6.00	100	6.00	4.06	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	70-130)						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	4.00	06/17/2011	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	86.6	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chlorooctane	134 :	% 70-130)	.(<u>.</u>					
Surrogate: 1-Chlorooctadecane	148	% 70-130) [.]						

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Celay D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/15/2011	Sampling Date:	06/10/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	JONES CANYON 4 FED #5	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H101252-10)

BTEX 8021B	mg/	'kg	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	e* <0.050 0.050		06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	<0.050 0.050		06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes* <0.150		0.150	06/20/2011	ND	6.00	100	6.00	4.06	
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 70-130		······································					
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288 16.0		06/17/2011	ND	448	112	400	3.64	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	, RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/19/2011	ND	232	116	200	5.92	
DRO >C10-C28	<10.0	10.0	06/19/2011	ND	229	115	200	1.08	
Surrogate: 1-Chloroociane		70-130						<u></u>	
Surrogate: 1-Chlorooctadecane	96.I	% 70-130							

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*=Accredited Analyte

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager

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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 SM4500CI-B does not require samples be received at or below 5°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez D. Kene

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

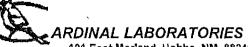
101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name: BBC International, Inc.							BILL TO ANALYSIS REQUEST														
Project Manage	r: Cliff Brunson					P.O.	. #:														
Address; P.O. Box 805					Con	ipany;															
city: Hobbs State: NM zip: 88241						Attn:															
Phone #: 575-	397-6388 Fax #: 57	5-397-0	397			Add	ress:														
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Project Location	n:					Pho	no #:				i										
Sampler Name:	Jeff Ornlogs				1	Fax	#:		_												
FOR LAB USE ONLY			·	MATE	RIX 1	F	RESERV	SAMPLI	NG			J								1	
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Lab I.D.	Sample I.D.	S)RAB OR (C)O CONTAINERS	GROUNDWATE	ASTEWATE	SLUDGE	THER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME	TPN	BTEX	C.h.lor									
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andle. In a wint thut Cauthal be liable to incidental or consequental earninges, including without Irailation, business interruptions, loss of tim, of loss of polyta increase by calls

afflictions or musclessore analytic out of or related to the performance of services hereinster by Candinal, upperformance of services hereinster by Candinal and Services herei Add'l Phone #: Add'l Fax #: Date: Relinquished By: Received By: Fax Result: REMARKS: L-1 Timo; // Date: Relinquished By: Received By t. Time: Delivered By: (Circle One) 04 Sample Condition Cool Intact Yes Yes No No CHECKED BY: (Initjals) -404 Sampler - UP\$ - Bus - Other: f

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(505) 393-2326 FAX (505) 393-24	76																			 	
Company Name: BBC International, Inc.								BILL TO ANALYSIS REQUEST														
							P.O. #:												T			
Address: P.O. Box 805							Company:)]]			
city: Hobbs	State: NM	Zip	; 88	8241			At	tn:		. Vi					[{				
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Project #: Project Owner: Oxy MC						Ci	ty:	3	\			6			{	ł						
Project Name: Indian Basin CTB						Sta	ate:	0	Zip:			M										
Project Location: Carlsbad, NM					Phone #:						8015]]]						
Sampler Name							Fa	x #:	_				Q	ļ		1	·	[ł			
FOR LAB USE ONLY			Π	-1-1	MATR	IX						Q	100	Ι.								
Lab I.D. H101253	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SolL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME	Chlorid	Hd-1	BTEX								
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2	SP2 @ 1'	G				_	_				2:08 pm	_ √ _	\checkmark	1			<u> </u>					
3	SP3 @ 1'	G			V	-			•		3:29 pm	1	1	\checkmark					ļ		 	
4	SP4 @ 1'	G	11		∕}_	_	L		L		8:44 am	√		\checkmark			ļ		[
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PLEASE NOTE: Lisbility and Damages. Cardinate lisbility and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in willing and seetved by Cardinal within 30 days after completion of the applicable service. In no event shell Cardinal be liable for incidential or consequential damages, including without imitation, byeness interruptions, loss of use, or loss of profile incurred by client, its subsidiaritis, affiliates or successors enterruptions, loss of use, or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of theleboye stated reasons or otherwise.

 Yes No Add'l Phone #:
 Yes No Add'l Fax #: Phone Result: Relinquished By Date: 6-15-11 Received By: Fax Result: Time: **REMARKS:** Øtp trula 4:40 Dw Date: 6-15 Relinquished By: Received By: Time: 11.0 5 'L (Circle One) Sample Condition CHECKED BY: Delivered By Cool Intact Ø Sampler - UP\$ - Bus - Other: The second secon