

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Thursday, July 28, 2011 6:09 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey
Subject: Chesapeake-H & K 18 Federal #1
Attachments: Chesapeake H & K 18 Fed. #1-Lab data and field notes.pdf

Mike,

This message is to confirm our discussion of today, July 28, 2011 concerning the remediation plan for the Chesapeake H & K 18 Federal #1 leak site. Per our discussion and agreement, Chesapeake will excavate the impacted soil across the site to a depth of 3 feet or as practicable and backfill the site with clean caliche. As we discussed, Chesapeake had already begun the excavation prior to our meeting. In addition, Chesapeake will collect sidewall confirmation samples of the excavation area and analyze for TPH, BTEX, and Chloride. When the battery is rebuild, it will be a lined facility. I have attached the lab data and diagrams that we reviewed for your files.

If you would please respond back via e-mail with your concurrence of the path forward, it would be greatly appreciated. Don't hesitate to contact me if you have any questions.

Thanks, Cliff

Cliff 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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7-18-11

TPH, BTEX, Cl-



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

July 21, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: H & K 18 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/20/11 11:40.

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 Hydrocarbons

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

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 (V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H101510-01)

BTEX 8260B			mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80		
Toluene*	0.126	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39		
Ethylbenzene*	0.150	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26		
Total Xylenes*	1.09	0.075	07/20/2011	ND	0.313	104	0.300	2.39		

Surrogate: Dibromofluoromethane 96.3 % 70-130

Surrogate: Toluene-d8 112 % 70-130

Surrogate: 4-Bromofluorobenzene 348 % 70-130

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	49600	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M			mg/kg					Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	249	100	07/20/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	28300	100	07/20/2011	ND	157	78.5	200	1.02	

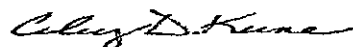
Surrogate: 1-Chlorooctane 116 % 70-130

Surrogate: 1-Chlorooctadecane 125 % 70-130

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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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1 FT (H101510-02)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	0.122	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 95.5 % 70-130

Surrogate: Toluene-d8 100 % 70-130

Surrogate: 4-Bromofluorobenzene 184 % 70-130

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	07/20/2011	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/20/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	367	50.0	07/20/2011	ND	157	78.5	200	1.02	

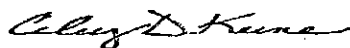
Surrogate: 1-Chlorooctane 111 % 70-130

Surrogate: 1-Chlorooctadecane 120 % 70-130

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Analytical Results For:

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Received:	07/20/2011	Sampling Date:	07/18/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 1 @ 3 FT. (H101510-03)

BTEX 82608			mg/kg							
			Analyzed By: CMS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80		
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39		
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26		
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39		

Surrogate: Dibromofluoromethane 93.3 % 70-130

Surrogate: Toluene-d8 89.6 % 70-130

Surrogate: 4-Bromofluorobenzene 128 % 70-130

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/20/2011	ND	464	116	400	3.51		

TPH 8015M			mg/kg							
			Analyzed By: ab							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/20/2011	ND	175	87.4	200	0.597		
DRO >C10-C28	<10.0	10.0	07/20/2011	ND	157	78.5	200	1.02		

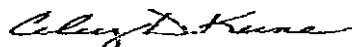
Surrogate: 1-Chlorooctane 110 % 70-130

Surrogate: 1-Chlorooctadecane 120 % 70-130

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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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/18/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5 FT. (H101510-04)

BTEX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 105 % 70-130

Surrogate: Toluene-d8 102 % 70-130

Surrogate: 4-Bromofluorobenzene 130 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/20/2011	ND	157	78.5	200	1.02	

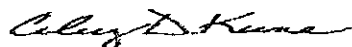
Surrogate: 1-Chlorooctane 109 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2011	Sampling Date:	07/18/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ SURFACE (H101510-05)

BTX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	0.091	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	0.062	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	0.278	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 105 % 70-130

Surrogate: Toluene-d8 133 % 70-130

Surrogate: 4-Bromofluorobenzene 209 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32800	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	266	100	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	28700	100	07/21/2011	ND	157	78.5	200	1.02	

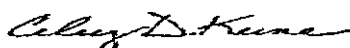
Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 106 % 70-130

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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:	07/20/2011	Sampling Date:	07/18/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 1 FT. (H101510-06)

BTEX 82608		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	0.048	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	0.050	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	2.66	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 127 % 70-130

Surrogate: Toluene-d8 353 % 70-130

Surrogate: 4-Bromofluorobenzene 1140 % 70-130

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M			mg/kg					Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	172	50.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	1840	50.0	07/21/2011	ND	157	78.5	200	1.02	

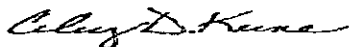
Surrogate: 1-Chlorooctane 121 % 70-130

Surrogate: 1-Chlorooctadecane 126 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/20/2011
Reported: 07/21/2011
Project Name: H & K 18 FEDERAL #1
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/18/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3 FT. (H101510-07)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 101 % 70-130

Surrogate: Toluene-d8 98.3 % 70-130

Surrogate: 4-Bromofluorobenzene 140 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

Surrogate: 1-Chlorooctane 111 % 70-130

Surrogate: 1-Chlorooctadecane 125 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

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 Cliff Brunson
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 Fax To: (505) 397-0397

Received:	07/20/2011	Sampling Date:	07/19/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 5 FT. (H101510-08)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 103 % 70-130

Surrogate: Toluene-d8 104 % 70-130

Surrogate: 4-Bromofluorobenzene 136 % 70-130

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	07/20/2011	ND	464	116	400	3.51	

TPH 8015M			mg/kg					Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

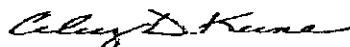
Surrogate: 1-Chlorooctane 112 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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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:	07/20/2011	Sampling Date:	07/19/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 2 @ 7 FT. (H101510-09)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 104 % 70-130

Surrogate: Toluene-d8 104 % 70-130

Surrogate: 4-Bromofluorobenzene 132 % 70-130

Chloride, SM4500Cl-B			mg/kg				Analyzed By: HM		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M			mg/kg				Analyzed By: ab		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

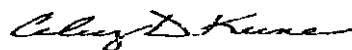
Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 119 % 70-130

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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: 07/20/2011
Reported: 07/21/2011
Project Name: H & K 18 FEDERAL #1
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 07/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 10 FT. (H101510-10)

BTEX 82608		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/20/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/20/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/20/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/20/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 98.2 % 70-130

Surrogate: Toluene-d8 89.2 % 70-130

Surrogate: 4-Bromofluorobenzene 117 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

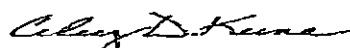
Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 125 % 70-130

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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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H101510-11)

BTEX 82608		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	0.251	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	0.207	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	1.47	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 89.2 % 70-130

Surrogate: Toluene-d8 182 % 70-130

Surrogate: 4-Bromofluorobenzene 284 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	316	100	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	11900	100	07/21/2011	ND	157	78.5	200	1.02	

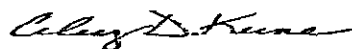
Surrogate: 1-Chlorooctane 126 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

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Analytical Results For:

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Received:	07/20/2011	Sampling Date:	07/19/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 3 @ 1 FT. (H101510-12)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	0.088	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	0.656	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 96.1 % 70-130

Surrogate: Toluene-d8 138 % 70-130

Surrogate: 4-Bromofluorobenzene 397 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	77.3	50.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	1410	50.0	07/21/2011	ND	157	78.5	200	1.02	

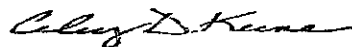
Surrogate: 1-Chlorooctane 119 % 70-130

Surrogate: 1-Chlorooctadecane 129 % 70-130

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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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3 FT. (H101510-13)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	0.150	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 115 % 70-130

Surrogate: Toluene-d8 141 % 70-130

Surrogate: 4-Bromofluorobenzene 258 % 70-130

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M			mg/kg					Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	329	10.0	07/21/2011	ND	157	78.5	200	1.02	

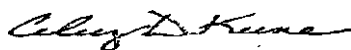
Surrogate: 1-Chlorooctane 108 % 70-130

Surrogate: 1-Chlorooctadecane 120 % 70-130

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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: 07/20/2011
 Reported: 07/21/2011
 Project Name: H & K 18 FEDERAL #1
 Project Number: NONE GIVEN
 Project Location: CARLSBAD, NM

 Sampling Date: 07/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5 FT. (H101510-14)

BTEX 8260B		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 124 % 70-130

Surrogate: Toluene-d8 124 % 70-130

Surrogate: 4-Bromofluorobenzene 182 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

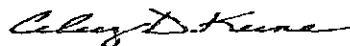
Surrogate: 1-Chlorooctane 112 % 70-130

Surrogate: 1-Chlorooctadecane 124 % 70-130

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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:	07/20/2011	Sampling Date:	07/19/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 3 @ 7 FT. (H101510-15)

BTEX 82608		mg/kg		Analyzed By: CMS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 107 % 70-130

Surrogate: Toluene-d8 108 % 70-130

Surrogate: 4-Bromofluorobenzene 177 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	181	10.0	07/21/2011	ND	157	78.5	200	1.02	

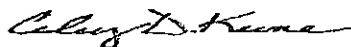
Surrogate: 1-Chlorooctane 114 % 70-130

Surrogate: 1-Chlorooctadecane 122 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/20/2011	Sampling Date:	07/19/2011
Reported:	07/21/2011	Sampling Type:	Soil
Project Name:	H & K 18 FEDERAL #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

Sample ID: SP 3 @ 10 FT. (H101510-16)

BTEX 82608			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	07/21/2011	ND	0.091	90.6	0.100	9.80	
Toluene*	<0.025	0.025	07/21/2011	ND	0.094	93.6	0.100	5.39	
Ethylbenzene*	<0.025	0.025	07/21/2011	ND	0.098	98.0	0.100	3.26	
Total Xylenes*	<0.075	0.075	07/21/2011	ND	0.313	104	0.300	2.39	

Surrogate: Dibromofluoromethane 92.9 % 70-130

Surrogate: Toluene-d8 92.7 % 70-130

Surrogate: 4-Bromofluorobenzene 129 % 70-130

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/20/2011	ND	448	112	400	3.51	

TPH 8015M			mg/kg		Analyzed By: ab				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2011	ND	175	87.4	200	0.597	
DRO >C10-C28	<10.0	10.0	07/21/2011	ND	157	78.5	200	1.02	

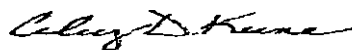
Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 121 % 70-130

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

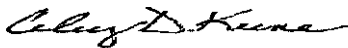
Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

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

ANALYSIS REQUEST

Project Manager: Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
City: Hobbs	State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388	Fax #: 575-397-0397	Address: Same	
Project #:	Project Owner: Chesapeake	City:	
Project Name: H+K 18 federal #1		State:	
Project Location: Cerro Gordo		Phone #:	
Sampler Name: Jeff Daniels		Fax #:	

Lab I.D.	Sample I.D.	MATRIX				PRESERV		SAMPLING	
		GROUNDWATER	GOL	OIL	SLUDGE	OTHER:	ACID/BASE		ICE/COOL
H1D1510	-1 Sp1 @ Surface	X					X		DATE: 7-18-11 TIME: 1111
2	Sp1 @ 1ft	X					X		1212
3	Sp1 @ 3ft	X					X		200
4	Sp1 @ 5ft	X					X		247
5	Sp2 @ Surface	X					X		300
6	Sp2 @ 1ft	X					X		300
7	Sp2 @ 3ft	X					X		300
8	Sp2 @ 5ft	X					X		300
9	Sp2 @ 7ft	X					X		300
10	Sp2 @ 10ft	X					X		300

PLEASE NOTE: Liability and Damages Cardholder's liability and damages are limited to the amount paid by the client for the sample. All claims, including those for negligence and any other cause whatsoever shall be determined within 30 days after completion of the applicable service. In no event shall Cardholder be liable for incidental or consequential damages, including without limitation, business interruption loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardholder, regardless of whether such claim is based upon contract, tort, strict liability or otherwise.

Relinquished By: <i>Jeff Daniels</i>	Date: 7-20-11	Received By: <i>Jeff Daniels</i>	Date: 7-20-11
Rollinquired By:		Rollinquired By:	

Delivered By: (Circle One) <i>UPS</i>	Checked BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other:	Sample Condition: Cool ☒ Intact ☒ Yes ☒ No ☐

REMARKS: Rush!!

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	CHESAPEAKE OPERATING, INC.	Contact	BRADLEY BLEVINS
Address	P. O. BOX 190 HOBBS, NM 88241	Telephone No.	575-391-1462
Facility Name	H&K 18 Federal #1	Facility Type	Tank Battery
Surface Owner	BLM	Mineral Owner	BLM
		Lease No.	

LOCATION OF RELEASE API #30-015-34360

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	18	22S	28E	925	SOUTH	835	WEST	Eddy

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	200 BBLS	Volume Recovered	70 BBLS
Source of Release	Hole (corrosion) in oil tank	6/28/11 3:00 P.M.		6/28/11 3:00 P.M.	
		Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	☒ Yes ☐ No ☐ Not Required	If YES, To Whom?	Mike Bratcher		
By Whom?	Bradley Blevins	Date and Hour	6/29/11 8:00AM		
Was a Watercourse Reached?	☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

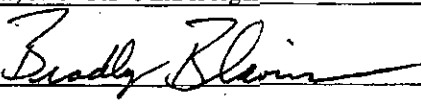
Hole in oil tank due to corrosion released 200 BBLS of crude oil into the containment area. Vacuum trucks were used to recover the crude oil.

Describe Area Affected and Cleanup Action Taken.*

70 BBLS of crude oil was recovered. Vacuum trucks were used to recover the crude oil. Release will be investigated and sampled and a remediation work plan will be submitted to the NMOCD.

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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: Bradley Blevins			
Title: HSE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached ☐
Date: 6/29/11	Phone: 575-391-1462		

* Attach Additional Sheets If Necessary