535 Route 38 East, Suite 355 Cherry Hill, New Jersey 08002

T: 856.382.7170 F: 201.236.1607



May 2, 2013

Mr. and Mrs. Donald Gilbert 10 Meadow Spring Drive Bel Air, Maryland 21015

143732.010

Subject: Water Well Sampling Results 10 Meadow Spring Drive Bel Air, Maryland 21015

Dear Mr. and Mrs. Gilbert:

Brown and Caldwell, on behalf of Drake Petroleum Company Inc. (Drake) would like to thank you for allowing us to conduct sampling of your drinking water well on March 13, 2013.

The water sample from your well was analyzed for volatile organic compounds (VOCs) including petroleum constituents, using the United States U.S. Environmental Protection Agency (USEPA) approved method for drinking water samples (US EPA Method 524.2). The following constituents were detected in your drinking water well: Chloroform (0.33 micrograms per Liter ( $\mu$ g/L)) and Methyl Tertiary Butyl Ether (estimated value of 0.13  $\mu$ g/L). All detected constituents were below Maryland Department of the Environment (MDE) drinking water standards. The MDE drinking water standard for Chloroform is 80  $\mu$ g/L and Methyl Tertiary Butyl Ether is 20  $\mu$ g/L, which can be found in the Code of Maryland (COMAR) 26.08.02.03-2. Your analytical results are attached.

This sampling completes the MDE sampling requirement for your property as directed in the September 25, 2012 MDE letter to Drake.

Again, thank you for your patience and cooperation. If you have any questions regarding the enclosed test results feel free to call Brown and Caldwell at (856) 324-0485.

Very truly yours, Brown and Caldwell

Carolyn Roth Project Manager

cc: Eric Harvey, Drake, (via electronic submittal)
 Susan Bull, Maryland Department of the Environment (via email and FedEx)
 Jeanette DeBartolomeo, Maryland Department of the Environment (via email and FedEx)
 Peter Smith, Harford County Health Department (via email and FedEx)

Attachments

**Attachment: Laboratory Data** 





04/15/13

### **Technical Report for**

### Drake Petroleum Company, Inc.

BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD

143732 PC#007805

Accutest Job Number: JB31642B



**Report to:** 

Brown and Caldwell 535 Route 38 East Suite 355 Cherry Hill, NJ 08034

**ATTN: Carolyn Roth** 

Total number of pages in report: 12



Mancy F. Cole

Nancy Cole Laboratory Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

New Jersey • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499 • http://www.accutest.com



# **Table of Contents**

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Section 3: Sample Results	
<b>3.1:</b> JB31642-3: 10 MEADOW-INF	
Section 4: Misc. Forms	9
4.1: Chain of Custody	10



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### **Sample Summary**

Drake Petroleum Company, Inc.

Job No: JB31642B BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD Project No: 143732 PC#007805

Sample	Collected			Matr	ix	Client
Number	Date	Time By	Received	Code	Туре	Sample ID
JB31642-3	03/13/13	09:55 HW	03/15/13	DW	Drinking Water Inf	10 MEADOW-INF





# Summary of Hits

Job Number:	JB31642B
Account:	Drake Petroleum Company, Inc.
Project:	BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD
Collected:	03/13/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB31642-3	10 MEADOW-IN	F				
Chloroform Methyl Tert Buty	l Ether	0.33 J 0.13 J	0.50 0.50	0.069 0.068	ug/l ug/l	EPA 524.2 REV 4.1 EPA 524.2 REV 4.1

N





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Sample Results

Report of Analysis



Client San Lab Samp Matrix: Method: Project:	ble ID: J E E	0 MEADOW-IN B31642-3 DW - Drinking V DPA 524.2 REV BCNJCH:PC# 00	Vater Inf 4.1	tra Fuels,	Da	te Received:	n/a
Run #1 Run #2	<b>File ID</b> 1B77190.	<b>DF</b> D 1	<b>Analyzed</b> 03/20/13	<b>By</b> MFH	<b>Prep Date</b> n/a	<b>Prep Batch</b> n/a	<b>Analytical Batch</b> V1B3604
Run #1	Purge Vo 5.0 ml	lume					

**Report of Analysis** 

Run #2

### **VOA List**

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.6	ug/l	
78-93-3	2-Butanone	ND		5.0	1.6	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.047	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.13	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.13	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.088	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.11	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.11	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.12	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.062	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.10	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.046	ug/l	
75-00-3	Chloroethane	ND		0.50	0.16	ug/l	
67-66-3	Chloroform	0.33		0.50	0.069	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.095	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.069	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.048	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.083	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.067	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.14	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.095	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.22	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.082	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.11	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.080	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.11	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.17	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.075	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.11	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.10	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.11	ug/l	

ND = Not detectedMDL - Method Detection Limit MCL = Maximum Contamination Level (40 CFR 141) E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



Page 1 of 3



Client Sample I Lab Sample ID Matrix: Method: Project:			ra Fuels, 247	Date Perc	e <b>Sampled:</b> e <b>Received:</b> c <b>ent Solids:</b> Road, Bel Air	03/15/13 n/a
VOA List						
CAS No. Co	ompound	Result	MCL RL	MDL	Units Q	

**Report of Analysis** 

CAS NO.	Compound	Result	MCL	KL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.073	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.063	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.094	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.062	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.14	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.064	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.096	ug/l	
110-54-3	Hexane	ND		0.50	0.28	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.11	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.053	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.11	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.13		0.50	0.068	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.47	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.058	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.050	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.097	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.059	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.041	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.075	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.053	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.20	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.073	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.12	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.091	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.12	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.079	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.15	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.15	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	2.4	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.18	ug/l	
95-47-6	o-Xylene	ND		0.50	0.12	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.12	ug/l	

ND = Not detectedMDL - Method Detection LimitMCL = Maximum Contamination Level (40 CFR 141)E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$ 

N = Indicates presumptive evidence of a compound

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Accutest Laboratories

Client Sam Lab Sample Matrix: Method: Project:	•	10 MEADOW-INF JB31642-3 DW - Drinking Water EPA 524.2 REV 4.1 BCNJCH:PC# 007805		a Fuels, 247	Da Pei	<b>te Sampled:</b> <b>te Received:</b> r <b>cent Solids:</b> Road, Bel Ai	n/a	
VOA List								
CAS No.	Surro	gate Recoveries	Run# 1	Run# 2	Limits			
2199-69-1 460-00-4		ichlorobenzene-d4 mofluorobenzene	91% 96%		78-114% 77-115%			
CAS No.	Tenta	tively Identified Comp	ounds	R.T.	Est. Conc.	Units Q		
	Total	TIC, Volatile			0	ug/l		

- J = Indicates an estimated value
- $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$
- N = Indicates presumptive evidence of a compound

Page 3 of 3

B of 12 ACCUTEST

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## **Report of Analysis**

**Section 4** 

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Misc. Forms	
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Custody Documents and Other Forms	

Includes the following where applicable:

• Chain of Custody



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4	A	C	C	U	T		G	888

### CHAIN OF CUSTODY

Ade/A	ЦЦ I				U	49	95 Tech							o, MA	0175	52										
	ACCUTES	0				50	)8-481-6	200	FA	X: 5	08-4	81-775	53	F	ED-EX	fracking	*				Bottle (	Order Co	ntroi #			
-98880-863	Laboratori	decision and an and											i	ľ	Accutest	Quote #					Accute	st Job #	JB	331	64	2.
	Client / Reporting Information		0.000		Proj	ect Info	rmation			1918	1999			3888 (					Contraction of the	Requ	ested /	Analysi	is			Matrix Codes
Company N	ame etroleum Company, Inc. Attn: Eric Harvey			Project N	lame:	Bel Air 3	Ktra Fuel	s, PC	#007	805																DW- Drinking Water
Address	eroleum company, Inc. Attn: Enc Harvey			Street	****										Ss via			1								GW- Ground Water WW- Water
	866 221 Quinebaug Road			2476 Chu	rchville Road										and TICs											SW- Surface Water
City	State		Zip	City					State						ates an											SO- Soil
	rosvenordale CT	06255		Bel Air					1	MD														11		SL-Sludge Ol-Oil
Project Con	tact: Carolyn Roth	Croth@Br m	vncald.co	Project #	143732										Oxyger											LIQ- Other Liquid
Phone #				Fax #											Fuel											
Samplers's	856-324-0485 Name Hunter White & Rob Jeffrey			Client Pu	rchase Order	#									Cs w/ 524.2											AIR- Air
Accustocal	-	Torono a	r	0-11			#00780		-						Suite VOCs v A method 524.											SOL-Other Solid
Accutest		SUMMA #		Collecti	ion		# of	Nur	T			rved f	T	S #	Suite A met											WP-Wipe
Sample #	Field ID / Point of Collection	MEOH Vial	Date	Time	Sampled by	Matrix	bottles	Ŷ	NaC	FN03	H2804	NON	MECH	ENCO	EPA -											LAB USE ONLY
	3 Meadow-Inf				HWTRJ	DW	3	3		-+					X											
~	5 Meadew-Inf				HW/RJ-	-DW-		3		-					¥											2211
-1	7 Meadow- Inf		3/13/13	1000	HW/RJ	DW	3	3							Х						1					
-2	9 Meadow- Inf		3/13/13	1040	HW/RJ	DW	3	3							Х											
- 3	10 Meadow- Inf		3/13/13	0955	HW/ RJ	DW	3	3							Х											
-4	2303 Churchville- Inf		3/13/13	1015	HW/RJ	DW	3	3							Х											
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	Std. 10 Business Days	Approved By	ri Date:		X Comn	Data De		Infor	FUL		P	0.3012			05000			0.08002		C	ommen	ts / Rem	arks		80.000	
	10 Day RUSH			-		nercial "		H				iory A				EDD to	Caroly	n Roth	when c	omplet	ed. cro	th@brv	wncald.	.com		
	5 Day RUSH				NJ Re	duced			NYA	ASP (	Categ	ory B				e.)	0.		2.1			0			2	1 1 1 1
	3 Day EMERGENCY				NJ Fu					te Fo						On	лц		4	5	nnp	les	<u>, e</u>		2	Lotthes
	2 Day EMERGENCY 1 Day EMERGENCY			-	Other			X	EDL	) Fo	rmat						P	ach								
	Other				Comm	ercial "A	" = Resu	lts Ör	ily									nen								
Emer	gency T/A data available VIA Labl	ink					~													N	lo T	rio I	Blar	nk I	Rar	eived
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Relinqui	shed by:		Date Time:		Received By	:				T	Reline	quished	By!				Date Tir	ne: 🖌			Receiv	ed By:		1	1	H /
3 Relinquis	shed by:	+	Date Time:		Received By	;				-	4 Custo	dy Seal	#			Preserv	ed where	applica	ole		4		On Ic	6	Coole	Temp.
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# JB31642B: Chain of Custody Page 1 of 3



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### Accutest Laboratories Sample Receipt Summary

Accutest Job Number:	JB31642	Client:		Project:	
Date / Time Received:	3/15/2013		Delivery Method:	Airbill #'s	

Cooler Temps (Initial/Adjusted): #1: (2/2); 0

Cooler Security	Y or I	<u>v</u>		Y	or N	Sample Integrity - Documentation	Y	or	Ν	
n odolodý obdio i roboniu			3. COC Present: impl Dates/Time OK	<ul><li>✓</li></ul>		<ol> <li>Sample labels present on bottles:</li> <li>Container labeling complete:</li> </ol>	✓ ✓			
Cooler Temperature	Y	or N				3. Sample container label / COC agree:	$\checkmark$			
<ol> <li>Temp criteria achieved:</li> <li>Cooler temp verification:</li> <li>Cooler media:</li> <li>No. Coolers:</li> </ol>		Bar Therm Ice (Bag) 1				Sample Integrity - Condition 1. Sample recvd within HT: 2. All containers accounted for: 3. Condition of sample:	<u>Υ</u> ✓	or Intac	<u>N</u>	
Quality Control Preservat	<u>ion Y</u>	or N	N/A			Sample Integrity - Instructions	v	or	N	N/A
<ol> <li>Trip Blank present / cooler</li> <li>Trip Blank listed on COC:</li> </ol>		✓ ✓				Analysis requested is clear:     Souther received for unspecified tests				
3. Samples preserved proper	ly: 🔽					3. Sufficient volume recvd for analysis:	$\checkmark$			
4. VOCs headspace free:	$\checkmark$					4. Compositing instructions clear:				$\checkmark$
						5. Filtering instructions clear:				$\checkmark$

Comments

Accutest Laboratories V:732.329.0200 2235 US Highway 130 F: 732.329.3499

Dayton, New Jersey www/accutest.com 4.1 **4** 

### JB31642B: Chain of Custody Page 2 of 3



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Page 1 of 1

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service

Date: 4/12/2013

Above Changes Per: Client / Rob Jeffrey

JB31642B: Chain of Custody Page 3 of 3

	12 of 12
	CUTEST
JB31642B	LABORATORIES

**Job Change Order:** JB31642\_4\_12\_2013

Requested Date:	e: 4/12/2013	Received Date:	3/15/2013
Account Name:	: Drake Petroleum Company, Inc.	Due Date:	3/22/2013
Project	BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476	76 Deliverable:	COMMA
CSR:	kristinb	TAT (Days):	4
Sample #: Dept: Dept:	Sample #: JB31642-ALL CI Dept: s Dept: ne	<b>Change :</b> <b>Change :</b> Please place each sample on a separate job so that separate reports will be generated. Revised reports needed Monday by noon.	separate job so that ted. Revised reports