

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

T: 856.382.7170
F: 856.330.9401



November 6, 2013

Mr. and Mrs. Phillip Breece
2319 Churchville Road
Bel Air, Maryland 21015

144514.005.002

Subject: Potable Drinking Water Supply Well Sampling Results
2319 Churchville Road
Bel Air, Maryland 21015

Dear Mr. and Mrs. Breece:

Brown and Caldwell, on behalf of Drake Petroleum Company Inc. (Drake) would like to thank you for allowing us to conduct sampling of your potable drinking water supply well on September 12, 2013.

The potable drinking water supply well sample collected from your residence 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 potable drinking water supply well: Bromodichloromethane (an estimated 0.19 micrograms per liter ($\mu\text{g/L}$)), Chloroform (0.97 $\mu\text{g/L}$), Dibromochloromethane (an estimated 0.11 $\mu\text{g/L}$), Methyl Tertiary Butyl Ether (an estimated 0.43 $\mu\text{g/L}$), and Toluene (0.58 $\mu\text{g/L}$). All detected constituents were below Maryland Department of the Environment (MDE) drinking water standards. The MDE drinking water standard for Bromodichloromethane is 80 $\mu\text{g/L}$, Chloroform is 80 $\mu\text{g/L}$, Dibromochloromethane is 80 $\mu\text{g/L}$, Methyl Tertiary Butyl Ether is 20 $\mu\text{g/L}$, and Toluene is 1300 $\mu\text{g/L}$, which can be found in the Code of Maryland (COMAR) 26.08.02.03-2. Your analytical results are attached.

As you know, sampling of your potable drinking water supply well was conducted by Drake as part of a groundwater investigation being conducted in cooperation with the MDE and the Harford County Health Department. Drake would like to sample your potable drinking water supply well again in the month of September 2014 as directed by the MDE. BC will contact you regarding the next round of sampling.

Mr. and Mrs. Phillip Breece
November 6, 2013
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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) 330-9406.

Very truly yours,
Brown and Caldwell

A handwritten signature in black ink, appearing to read 'Carolyn Roth', written over a horizontal line.

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



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: JB47439

Sampling Date: 09/12/13

Report to:

Brown & Caldwell

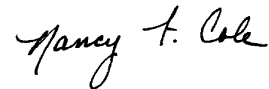
JMaciejewski@brwnald.com

ATTN: Jen Maciejewski

Total number of pages in report: 11



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.



Nancy Cole
Laboratory Director

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

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Test results relate only to samples analyzed.

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Sample Summary

Drake Petroleum Company, Inc.

Job No: JB47439

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

Project No: 143732 PC#007805

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
JB47439-1	09/12/13	10:55 HW	09/14/13	DW	Drinking Water	2319 CHURCHVILLE ROAD

Summary of Hits

Job Number: JB47439

Account: Drake Petroleum Company, Inc.

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

Collected: 09/12/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JB47439-1 2319 CHURCHVILLE ROAD

Bromodichloromethane	0.19 J	0.50	0.049	ug/l	EPA 524.2 REV 4.1
Chloroform	0.97	0.50	0.041	ug/l	EPA 524.2 REV 4.1
Dibromochloromethane	0.11 J	0.50	0.055	ug/l	EPA 524.2 REV 4.1
Methyl Tert Butyl Ether	0.43 J	0.50	0.11	ug/l	EPA 524.2 REV 4.1
Toluene	0.58	0.50	0.045	ug/l	EPA 524.2 REV 4.1

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID: 2319 CHURCHVILLE ROAD		Date Sampled: 09/12/13
Lab Sample ID: JB47439-1		Date Received: 09/14/13
Matrix: DW - Drinking Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B82558.D	1	09/18/13	MFH	n/a	n/a	V1B3860
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	0.90	ug/l	
78-93-3	2-Butanone	ND		5.0	0.74	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.10	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	0.19		0.50	0.049	ug/l	J
75-25-2	Bromoform	ND		0.50	0.062	ug/l	
74-83-9	Bromomethane	ND		0.50	0.10	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.048	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.067	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.031	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.065	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.033	ug/l	
75-00-3	Chloroethane	ND		0.50	0.091	ug/l	
67-66-3	Chloroform	0.97		0.50	0.041	ug/l	
74-87-3	Chloromethane	ND		0.50	0.12	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.044	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.034	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.053	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.040	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.079	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.065	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.098	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.055	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.053	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.061	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.048	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.046	ug/l	
124-48-1	Dibromochloromethane	0.11		0.50	0.055	ug/l	J
74-95-3	Dibromomethane	ND		0.50	0.075	ug/l	
75-71-8	Dichlorodifluoromethane	ND		0.50	0.064	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.028	ug/l	

ND = Not detected MDL - 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

Report of Analysis

Client Sample ID:	2319 CHURCHVILLE ROAD	Date Sampled:	09/12/13
Lab Sample ID:	JB47439-1	Date Received:	09/14/13
Matrix:	DW - Drinking Water	Percent Solids:	n/a
Method:	EPA 524.2 REV 4.1		
Project:	BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.036	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.050	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.12	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.066	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.042	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.068	ug/l	
108-20-3	Di-Isopropyl ether	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.021	ug/l	
637-92-3	Ethyl tert Butyl Ether	ND		0.50	0.042	ug/l	
87-68-3	Hexachlorobutadiene	ND		0.50	0.037	ug/l	
110-54-3	Hexane	ND		0.50	0.15	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.36	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.054	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.025	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.072	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.43		0.50	0.11	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.15	ug/l	
91-20-3	Naphthalene	ND		0.50	0.029	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.055	ug/l	
100-42-5	Styrene	ND	100	0.50	0.028	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND		0.50	0.10	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.064	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.025	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.033	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.068	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.064	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.047	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.064	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.047	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.052	ug/l	
108-88-3	Toluene	0.58	1000	0.50	0.045	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.063	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.072	ug/l	
75-65-0	Tertiary Butyl Alcohol	ND		5.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.065	ug/l	
	m,p-Xylene	ND		0.50	0.045	ug/l	
95-47-6	o-Xylene	ND		0.50	0.030	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.030	ug/l	

ND = Not detected MDL - 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

Report of Analysis

3.1
3

Client Sample ID: 2319 CHURCHVILLE ROAD	Date Sampled: 09/12/13
Lab Sample ID: JB47439-1	Date Received: 09/14/13
Matrix: DW - Drinking Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD	

VOA List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	93%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

ND = Not detected MDL - 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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-4200 FAX: 732-329-3499/3480
 www.accutest.com

FedEx Tracking # 8034 9530 0465 Accutest Quote #	Bottle Order Control # Accutest Job # JB47439
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Client / Reporting Information		Project Information										Requested Analysis (see TEST CODE sheet)										Matrix Codes																																																	
Company Name Drake Petroleum Company, Inc. Attn: Eric Harvey		Project Name Bel Air Xtra Fuels PC#007805										Full suite VOCs +15 with fuel oxygenates EPA Method 8242										DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank																																																	
Street Address P.O. Box 868 221 Quinebaug Road		Street 2476 Churchville Rd.																																																																					
City State Zip North Grosvenordale CT 6256		City State Bel Air MD																																																																					
Project Contact Carolyn Roth		Billing Information (if different from Report to) Company Name Bel Air MD																																																																					
Phone # Fax # 302-545-4902		Client Purchase Order # #007805										<table border="1"> <tr> <th colspan="10">Number of preserved Bottles</th> </tr> <tr> <th>HCl</th> <th>NaOH</th> <th>HNO3</th> <th>H2SO4</th> <th>None</th> <th>D/Water</th> <th>MEOH</th> <th>ENCORE</th> <th colspan="2"></th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Number of preserved Bottles										HCl	NaOH	HNO3	H2SO4	None	D/Water	MEOH	ENCORE																																
Number of preserved Bottles																																																																							
HCl	NaOH	HNO3	H2SO4	None	D/Water	MEOH	ENCORE																																																																
Sampler(s) Name(s) Hunter White		Project Manager Carolyn Roth																																																																					
Field ID / Point of Collection 2319 Churchville Road		Collection MEQ/ID1 Vial # 9/12/13 1055										Matrix HW GW										LAB USE ONLY 9998																																																	
Date Time 9/12/13 1055		# of bottles 3										# of bottles 3																																																											
Turnaround Time (Business days) <input type="checkbox"/> Std. 15 Business Days <input checked="" type="checkbox"/> Std. 10 Business Days (by Contract only) <input type="checkbox"/> 10 Day RUSH <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM) / Date: / day by VLEI contract										Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> NJ Reduced <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data											Comments / Special Instructions																																																
Relinquished by Sampler: 1 Hunter White		Date Time: 9/13/13		Received By: 1 Fed Ex		Relinquished By: 2 Fed Ex		Date Time: 9/14/13 0932		Received By: [Signature]																																																													
Relinquished by Sampler: 3		Date Time:		Received By: 3		Relinquished By: 4		Date Time:		Received By: 4																																																													
Relinquished by: 5		Date Time:		Received By: 5		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable <input type="checkbox"/>		On Ice <input checked="" type="checkbox"/>		Cooler Temp. 30°C																																																									

4.1
4

JB47439: Chain of Custody

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB47439 Client: _____ Project: _____
 Date / Time Received: 9/14/2013 Delivery Method: _____ Airbill #s: _____

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

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Comments

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

4.1
4