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

144514.005.002

Subject: Potable Drinking Water Supply 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 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: Chloroform (0.12 micrograms per Liter (µg/L)) and Methyl Tertiary Butyl Ether (estimated value of 0.20 µg/L). All detected constituents were below Maryland Department of the Environment (MDE) drinking water standards. The MDE drinking water standard for Chloroform is 80 µg/L and Methyl Tertiary Butyl Ether is 20 µg/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 March 2014 as directed by the MDE. BC will contact you regarding the next round of sampling.

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

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

New Jersey ACCUTEST LABORATORIES

10/29/13

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: JB47442

Sampling Date: 09/12/13

Report to:

Brown & Caldwell

JMaciejewski@brwncald.com

ATTN: Jen Maciejewski

Total number of pages in report: **11**

ACCREDITED IN ACCORDANCE WITH nelac

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

Sections: 1 2 3 4

Table of Contents

Sample Summary

Drake Petroleum Company, Inc.

Job No: JB47442

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JB47442-1	09/12/13	09:55	HW	09/14/13	DW	Drinking Water	10 MEADOW

Summary of Hits

Job Number: JB47442
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 / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB47442-1	**10 MEADOW**					
Chloroform		0.12 J	0.50	0.041	ug/l	EPA 524.2 REV 4.1
Methyl Tert Butyl Ether		0.20 J	0.50	0.11	ug/l	EPA 524.2 REV 4.1

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	10 MEADOW		
Lab Sample ID:	JB47442-1	**Date Sampled:**	09/12/13
Matrix:	DW - Drinking Water	**Date Received:**	09/14/13
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B82528.D	1	09/17/13	MFH	n/a	n/a	V1B3858
Run #2							

	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	ND		0.50	0.049	ug/l	
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	0.12		0.50	0.041	ug/l	J
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	ND		0.50	0.055	ug/l	
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: 10 MEADOW
Lab Sample ID: JB47442-1 **Date Sampled:** 09/12/13
Matrix: DW - Drinking Water **Date Received:** 09/14/13
Method: EPA 524.2 REV 4.1 **Percent Solids:** n/a
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	0.20		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	ND	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

Client Sample ID:	10 MEADOW		
Lab Sample ID:	JB47442-1	**Date Sampled:**	09/12/13
Matrix:	DW - Drinking Water	**Date Received:**	09/14/13
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

GW

CHAIN OF CUSTODY

PAGE 1 of 1

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking # 8034 7530 0465
Bottle Order Control #
Accutest Quote #
Accutest Job # JB47442

Client / Reporting Information

Company Name: Drake Petroleum Company, Inc. Attn: Eric Harvey
Street Address: P.O. Box 866 221 Quinebaug Road
City: North Grosvenordale State: CT Zip: 6255
Project Contact: Carolyn Roth E-mail: croth@brwncald.com
Phone #: 302-545-4902 Fax #:
Sampler(s) Name(s): Hunter White Phone #:

Project Information

Project Name: Bel Air Xtra Fuels PC#007805
Street: 2476 Churchville Rd.
City: Bel Air State: MD
Project #: 144514
Client Purchase Order #: #007805
Project Manager: Carolyn Roth

Billing Information (If different from Report to)

Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Full suite VOCs +15 with fuel oxygenates EPA Method 5242

Matrix Codes

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Full suite VOCs +15 with fuel oxygenates EPA Method 5242	LAB USE ONLY
-1	10 Meadow [redacted]		9/12/13	0955	HW	GW	3	3								X	9998

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [X] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:
/ day by WEL contract

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	9/13/13		Fed Ex			
2				Fed Ex	9/14/13 9:45	
3						
4						
5						

Custody Seal # ☐ Intact ☐ Not Intact Preserved where applicable ☐ On Ice ☑ Cooler Temp: 2°C

JB

JB47442: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB47442 **Client:** _____ **Project:** _____

Date / Time Received: 9/14/2013 **Delivery Method:** _____ **Airbill #'s:** _____

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

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑