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May 15, 2013

Mr. Michael T. Axelsson & Ms. Krystin Porcella
1 Meadow Spring Drive
Bel Air, Maryland 21015

143732.012

Subject: Point of Entry Treatment System Sampling Results
April 2, 2013 Sampling Event
1 Meadow Spring Drive, Bel Air, Maryland

Dear Mr. Axelsson and Ms. Porcella:

Brown and Caldwell (BC), on behalf of Drake Petroleum Company Inc. (Drake) would like to thank you for allowing us to conduct sampling of your point of entry treatment (POET) system on April 2, 2013. The sampling was conducted to evaluate the effectiveness of the POET system that was installed to treat the water coming into your home.

To help better understand the results, the following information is supplied:

- **Pre-carbon filtration** – water sample of the untreated water coming directly into your home from your well; referred to as influent and denoted as “1 MEADOW-INF” on the laboratory report.
- **Mid-carbon filtration** – water sample collected between the granular activated carbon (GAC) vessels, this sample is collected between the second and third GAC vessels; referred to as mid-fluent and denoted as “1 MEADOW-MID2” on the laboratory report.
- **Post-carbon filtration** – water sample of the finished treated water; referred to as effluent and denoted as “1 MEADOW-EFF” on the laboratory report.

Water samples were collected pre-, mid- and post-carbon filtration and were analyzed for volatile organic compounds (VOCs) including petroleum constituents, using a United States (US) Environmental Protection Agency (EPA) approved method for drinking water samples (US EPA Method 524.2). The following constituents were detected from the effluent post-carbon filtration port of your water filtration system: Chloromethane at 1.5 micrograms per liter ($\mu\text{g}/\text{L}$) and Silanol,-trimethyl- at an estimated 0.67 $\mu\text{g}/\text{L}$. Silanol,-trimethyl- is a tentatively identified compound (TIC) that has no groundwater standard in the state of Maryland. Chloromethane is not a petroleum-containing compound, and was below its Maryland Department of the Environment (MDE) groundwater standard of 19 $\mu\text{g}/\text{L}$. The MDE groundwater standards can be found in MDE Cleanup Standards for Soil and Groundwater, Interim Final Guidance (June 2008). The sample results demonstrated that no petroleum-containing compounds were detected in the effluent water sample in exceedance of the regulatory limits, indicating that the POET system is functioning properly. Your analytical results of the pre-carbon, mid-carbon, and post-carbon filtration points are attached.

Mr. Axelsson and Ms. Porcella
May 15, 2013
Page 2

As you know, sampling of your water filtration system 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 the water from your water filtration system again in the month of May 2013 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 me 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 (1)

Attachment: Laboratory Data





05/08/13

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: JB33562

Sampling Date: 04/02/13

Report to:

Brown & Caldwell

hwhite@BrwnCald.com

ATTN: Hunter White

Total number of pages in report: **17**



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: JB33562

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

Project No: 143732 PC#007805

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB33562-1	04/02/13	09:30 HW	04/05/13	DW	Drinking Water Eff	1 MEADOW-EFF
JB33562-2	04/02/13	09:10 HW	04/05/13	DW	Drinking Water	1 MEADOW-MID2
JB33562-3	04/02/13	09:05 HW	04/05/13	DW	Drinking Water Inf	1 MEADOW-INF

Summary of Hits



Job Number: JB33562
Account: Drake Petroleum Company, Inc.
Project: BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD
Collected: 04/02/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB33562-1	1 MEADOW-EFF					
Chloromethane		1.5	0.50	0.095	ug/l	EPA 524.2 REV 4.1
Total TIC, Volatile		0.67 J			ug/l	
JB33562-2	1 MEADOW-MID2					
Chloromethane		1.1	0.50	0.095	ug/l	EPA 524.2 REV 4.1
JB33562-3	1 MEADOW-INF					
Benzene		17.5	0.50	0.047	ug/l	EPA 524.2 REV 4.1
Di-Isopropyl ether		1.7	0.50	0.062	ug/l	EPA 524.2 REV 4.1
Ethyl tert Butyl Ether		0.43 J	0.50	0.064	ug/l	EPA 524.2 REV 4.1
Isopropylbenzene		0.34 J	0.50	0.11	ug/l	EPA 524.2 REV 4.1
Methylene chloride		0.26 J	0.50	0.11	ug/l	EPA 524.2 REV 4.1
Methyl Tert Butyl Ether		443	13	1.7	ug/l	EPA 524.2 REV 4.1
Naphthalene		0.72	0.50	0.060	ug/l	EPA 524.2 REV 4.1
tert-Amyl Methyl Ether		13.6	0.50	0.050	ug/l	EPA 524.2 REV 4.1
1,2,4-Trimethylbenzene		0.31 J	0.50	0.12	ug/l	EPA 524.2 REV 4.1
Tertiary Butyl Alcohol		122	5.0	2.4	ug/l	EPA 524.2 REV 4.1
m,p-Xylene		0.20 J	1.0	0.18	ug/l	EPA 524.2 REV 4.1
o-Xylene		0.30 J	0.50	0.12	ug/l	EPA 524.2 REV 4.1
Xylenes (total)		0.50	0.50	0.12	ug/l	EPA 524.2 REV 4.1
Total TIC, Volatile		5.61 J			ug/l	

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1 MEADOW-EFF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-1	Date Received:	04/05/13
Matrix:	DW - Drinking Water Eff	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 #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B77974.D	1	04/12/13	MFH	n/a	n/a	V1B3641
Run #2							

Run #	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	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	ND		0.50	0.069	ug/l	
74-87-3	Chloromethane	1.5		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 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:	1 MEADOW-EFF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-1	Date Received:	04/05/13
Matrix:	DW - Drinking Water Eff	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	0.073	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	ND		0.50	0.068	ug/l	
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 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:	1 MEADOW-EFF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-1	Date Received:	04/05/13
Matrix:	DW - Drinking Water Eff	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	90%		78-114%		
460-00-4	4-Bromofluorobenzene	95%		77-115%		

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Silanol, -trimethyl-	9.13	.67	ug/l	J
	Total TIC, Volatile		.67	ug/l	J

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MCL = Maximum Contamination Level (40 CFR 141)
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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:	1 MEADOW-MID2	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-2	Date Received:	04/05/13
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 #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B77975.D	1	04/12/13	MFH	n/a	n/a	V1B3641
Run #2							

Run #	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	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	ND		0.50	0.069	ug/l	
74-87-3	Chloromethane	1.1		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 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:	1 MEADOW-MID2	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-2	Date Received:	04/05/13
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	0.073	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	ND		0.50	0.068	ug/l	
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 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

3.2
3

Client Sample ID: 1 MEADOW-MID2		Date Sampled: 04/02/13
Lab Sample ID: JB33562-2		Date Received: 04/05/13
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	90%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

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

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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:	1 MEADOW-INF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-3	Date Received:	04/05/13
Matrix:	DW - Drinking Water Inf	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 #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B77976.D	1	04/12/13	MFH	n/a	n/a	V1B3641
Run #2	1B77987.D	25	04/12/13	MFH	n/a	n/a	V1B3641

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

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	17.5	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	ND		0.50	0.069	ug/l	
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	

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Report of Analysis

Client Sample ID:	1 MEADOW-INF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-3	Date Received:	04/05/13
Matrix:	DW - Drinking Water Inf	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	0.073	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	1.7		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	0.43		0.50	0.064	ug/l	J
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	0.34		0.50	0.11	ug/l	J
99-87-6	p-Isopropyltoluene	ND		0.50	0.053	ug/l	
75-09-2	Methylene chloride	0.26	5.0	0.50	0.11	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	443 ^a		13	1.7	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.47	ug/l	
91-20-3	Naphthalene	0.72		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	13.6		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	0.31		0.50	0.12	ug/l	J
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	122		5.0	2.4	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	0.20		1.0	0.18	ug/l	J
95-47-6	o-Xylene	0.30		0.50	0.12	ug/l	J
1330-20-7	Xylenes (total)	0.50	10000	0.50	0.12	ug/l	

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Report of Analysis

Client Sample ID:	1 MEADOW-INF	Date Sampled:	04/02/13
Lab Sample ID:	JB33562-3	Date Received:	04/05/13
Matrix:	DW - Drinking Water Inf	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	89%	88%	78-114%
460-00-4	4-Bromofluorobenzene	93%	91%	77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	4.16	.98	ug/l	J
	alkane	6.80	1.3	ug/l	J
	alkane	10.24	.52	ug/l	J
75-85-4	Amylene Hydrate	10.45	1.6	ug/l	JN
	ketones	13.52	.57	ug/l	J
	C3 alkyl benzene	16.32	.64	ug/l	J
	Total TIC, Volatile		5.61	ug/l	J

(a) Result is from Run# 2

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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

DW

Client / Reporting Information		Project Information		FED-EX Tracking #		Bottle Order Control #	
Company Name Drake Petroleum Company, Inc. Attn: Eric Harvey		Project Name Bel Air Xtra Fuels, PC #007805		Accutest Quote #		Accutest Job # J033562	
Address P.O. Box 866 221 Quinebaug Road		Street 2476 Churchville Road		Requested Analysis		Matrix Codes DW- Drinking Water GW- Ground Water WW- Water SW- Surface Water SO- Soil SL- Sludge OI- Oil LIQ- Other Liquid AIR- Air SOL- Other Solid WP- Wipe	
City North Grosvenordale		City Bel Air					
State CT		State MD					
Project Contact Carolyn Roth		Project # 143732		Full Suite VOCs w/ Fuel Oxygenates and TICs via EPA method 824.2		LAB-USE ONLY 2107	
Phone # 856-324-0485		Fax #					
Samplers Name Hunter White		Client Purchase Order # #007805					
Accutest	SUMMA #	Collection				Number of preserved Bottles	
Sample #	Field ID / Point of Collection	MEOH Vial #	Date	Time	Sampled by	Matrix	# of bottles
1	Meadow- Eff		4/2/13	0930	HW	DW	3
2	Meadow- Mid2		4/2/13	0910	HW	DW	3
3	Meadow- Inf		4/2/13	0905	HW	DW	3
	1 Meadow- TB				HW	TB	2
<input checked="" type="checkbox"/> Std. 10 Business Days <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 <input type="checkbox"/> Other		Approved By/ Date:		<input checked="" type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> NJ Reduced <input type="checkbox"/> NJ Full <input type="checkbox"/> Other		<input type="checkbox"/> FULL CLP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> EDD Format	
Emergency T/A data available VIA Lablink		Commercial "A" = Results Only		Comments / Remarks EDD to Carolyn Roth when completed. croth@brwncltd.com			
Sample Custody must be documented below each time samples change possession including courier delivery							
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:
1 Hunter White	4/5/13 1220	Kim Yandell	4/5/13 1815	Kim Yandell	4/5/13 1815	[Signature]	
3		3		4		2	
5		5		4		4	

4.1
4

JB33562: Chain of Custody
Page 1 of 2

2008

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB33562 **Client:** _____ **Project:** _____
Date / Time Received: 4/5/2013 **Delivery Method:** _____ **Airbill #'s:** _____
Cooler Temps (Initial/Adjusted): #1: (2/2): 0

<u>Cooler Security</u>		<u>Y or N</u>		<u>Y or 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. Smp'l Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>		<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	_____	
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"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>		<u>Y or 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 or 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"/>

Comments