

Technical Report for

Drake Petroleum Company, Inc.

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

146282.003.002

Accutest Job Number: JB85726

Sampling Date: 01/06/15

Report to:

Brown & Caldwell

JMaciejewski@brwnald.com

ATTN: Jen Maciejewski

Total number of pages in report: 15



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



Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 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), AK (UST-103), AZ (AZ0786), PA, RI, SC, TN, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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Sample Summary

Drake Petroleum Company, Inc.

Job No: JB85726

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

Project No: 146282.003.002

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JB85726-1	01/06/15	10:55 JM	01/06/15	AQ	Effluent	EFF-150106
JB85726-2	01/06/15	11:00 JM	01/06/15	AQ	Influent	INF-150106
JB85726-3	01/06/15	11:00 JM	01/06/15	AQ	Trip Blank Water	TB

Summary of Hits

Job Number: JB85726
Account: Drake Petroleum Company, Inc.
Project: BCNJCH:PC# 007805 Bel Air Xtra Fuels, 2476 Churchville Road, Bel Air, MD
Collected: 01/06/15

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB85726-1	EFF-150106					
Tert Butyl Alcohol		821	10	4.7	ug/l	SW846 8260B
JB85726-2	INF-150106					
Benzene		9.2	0.50	0.21	ug/l	SW846 8260B
Toluene		2.2	1.0	0.22	ug/l	SW846 8260B
Ethylbenzene		22.5	1.0	0.40	ug/l	SW846 8260B
Xylene (total)		49.9	1.0	0.20	ug/l	SW846 8260B
Methyl Tert Butyl Ether		151	1.0	0.26	ug/l	SW846 8260B
Tert Butyl Alcohol		2130	100	47	ug/l	SW846 8260B
Naphthalene		4.7 J	5.0	0.34	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.723	0.20	0.038	mg/l	SW846 8015C
TPH-DRO (C10-C28) ^a		0.253	0.083	0.080	mg/l	SW846 8015C
TPH-DRO (C10-C28)		0.389	0.083	0.080	mg/l	SW846 8015C

JB85726-3 TB

No hits reported in this sample.

(a) The surrogates on MB were outside in house control limits. There is no sample left to re-extract.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EFF-150106	Date Sampled:	01/06/15
Lab Sample ID:	JB85726-1	Date Received:	01/06/15
Matrix:	AQ - Effluent	Percent Solids:	n/a
Method:	SW846 8260B	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	S191209.D	1	01/08/15	VC	n/a	n/a	VS7838
Run #2							

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

Purgeable Aromatics, MTBE, TBA, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	821	10	4.7	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-122%
17060-07-0	1,2-Dichloroethane-D4	96%		71-124%
2037-26-5	Toluene-D8	105%		78-121%
460-00-4	4-Bromofluorobenzene	102%		77-120%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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: EFF-150106		Date Sampled: 01/06/15
Lab Sample ID: JB85726-1		Date Received: 01/06/15
Matrix: AQ - Effluent		Percent Solids: n/a
Method: SW846 8015C		
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	UV21345.D	1	01/08/15	WO	n/a	n/a	GUV4812
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.20	0.038	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	78%		62-120%		

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFF-150106	Date Sampled:	01/06/15
Lab Sample ID:	JB85726-1	Date Received:	01/06/15
Matrix:	AQ - Effluent	Percent Solids:	n/a
Method:	SW846 8015C SW846 3510C		
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 ^a	7Y9026.D	1	01/09/15	JM	01/08/15	OP81004	G7Y340
Run #2	2Z45480.D	1	01/13/15	JM	01/12/15	OP81048	G2Z1688

Run #	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2	300 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.083	0.080	mg/l	
	TPH-DRO (C10-C28)	ND ^b	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%	62%	36-144%
16416-32-3	Tetracosane-d50	53%	46%	32-138%
438-22-2	5a-Androstane	54%	42%	31-136%

(a) The surrogates on MB were outside in house control limits. There is no sample left to re-extract.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	INF-150106	Date Sampled:	01/06/15
Lab Sample ID:	JB85726-2	Date Received:	01/06/15
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8260B	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	S191210.D	1	01/08/15	VC	n/a	n/a	VS7838
Run #2	S191236.D	10	01/09/15	VC	n/a	n/a	VS7840

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

Purgeable Aromatics, MTBE, TBA, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	9.2	0.50	0.21	ug/l	
108-88-3	Toluene	2.2	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	22.5	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	49.9	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	151	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	2130 ^a	100	47	ug/l	
91-20-3	Naphthalene	4.7	5.0	0.34	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	76-122%
17060-07-0	1,2-Dichloroethane-D4	97%	90%	71-124%
2037-26-5	Toluene-D8	107%	106%	78-121%
460-00-4	4-Bromofluorobenzene	101%	98%	77-120%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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:	INF-150106	Date Sampled:	01/06/15
Lab Sample ID:	JB85726-2	Date Received:	01/06/15
Matrix:	AQ - Influent	Percent Solids:	n/a
Method:	SW846 8015C	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	UV21346.D	1	01/08/15	WO	n/a	n/a	GUV4812
Run #2							

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

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.723	0.20	0.038	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
98-08-8	aaa-Trifluorotoluene	84%		62-120%		

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 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

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3

Client Sample ID: INF-150106		Date Sampled: 01/06/15
Lab Sample ID: JB85726-2		Date Received: 01/06/15
Matrix: AQ - Influent		Percent Solids: n/a
Method: SW846 8015C SW846 3510C		
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 ^a	7Y9027.D	1	01/09/15	JM	01/08/15	OP81004	G7Y340
Run #2	2Z45481.D	1	01/13/15	JM	01/12/15	OP81048	G2Z1688

Run #	Initial Volume	Final Volume
Run #1	300 ml	1.0 ml
Run #2	300 ml	1.0 ml

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	0.253	0.083	0.080	mg/l	
	TPH-DRO (C10-C28)	0.389 ^b	0.083	0.080	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%	65%	36-144%
16416-32-3	Tetracosane-d50	51%	51%	32-138%
438-22-2	5a-Androstane	52%	47%	31-136%

(a) The surrogates on MB were outside in house control limits. There is no sample left to re-extract.
 (b) Result is from Run# 2

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB		Date Sampled: 01/06/15
Lab Sample ID: JB85726-3		Date Received: 01/06/15
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
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	S191208.D	1	01/08/15	VC	n/a	n/a	VS7838
Run #2							

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

Purgeable Aromatics, MTBE, TBA, Naphthalene

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.21	ug/l	
108-88-3	Toluene	ND	1.0	0.22	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.40	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.26	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	4.7	ug/l	
91-20-3	Naphthalene	ND	5.0	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		76-122%
17060-07-0	1,2-Dichloroethane-D4	96%		71-124%
2037-26-5	Toluene-D8	105%		78-121%
460-00-4	4-Bromofluorobenzene	102%		77-120%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

GW
WTB

CHAIN OF CUSTODY

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

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB85726

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)												Matrix Codes																																									
Company Name Drake Petro. Co. Inc. Attn: Eric Harvey		Project Name Bel Air Xtra fuels				<div style="display: flex; flex-direction: column; align-items: center;"> <p>X VOC W/TF & Methylene/MTBE</p> <p>X TPH - GPD (8015 B)</p> <p>X TPH - DPO (8015 B)</p> </div>												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 PO Box 866 Hill Driveburg Rd		Street 2476 Charchoille Rd																																																									
City, State, Zip N. Grosvenordale CT 0255		City, State BELAIR MD																																																									
Project Contact J.M. Kugler E-mail: jkugler@drake.com		Billing Information (if different from Report to)																																																									
Phone # 856-390-0410		Project # 146282.003, 002																																																									
Fax # 856-390-4140		Client Purchase Order # 007805																																																									
Sampler(s) Name(s) J. Muehlstein Phone # 441-940-4340		Project Manager J. Kugler																																																									
Attention:																																																											
Accutest Sample #		Field ID / Point of Collection		MEQHDI Viol #		Collection		Number of preserved Bottles												LAB USE ONLY																																							
								<table border="1"> <tr> <th>Date</th> <th>Time</th> <th>Sampled by</th> <th>Matrix</th> <th># of bottles</th> <th>MD</th> <th>NOPT</th> <th>HNDS</th> <th>HSCA</th> <th>NONE</th> <th>DI Water</th> <th>MEQI</th> <th>ENCORE</th> </tr> <tr> <td>1</td> <td>1055</td> <td>JM</td> <td>GW</td> <td>7</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>1100</td> <td>JM</td> <td>GW</td> <td>7</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												Date	Time	Sampled by	Matrix	# of bottles	MD	NOPT	HNDS	HSCA	NONE	DI Water	MEQI	ENCORE	1	1055	JM	GW	7	7								2	1100	JM	GW	7	7								
Date	Time	Sampled by	Matrix	# of bottles	MD	NOPT	HNDS	HSCA	NONE	DI Water	MEQI	ENCORE																																															
1	1055	JM	GW	7	7																																																						
2	1100	JM	GW	7	7																																																						
																				E48 E59 V92																																							

Turnaround Time (Business days)		Data Deliverable Information				Comments / Special Instructions	
<input checked="" type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day RUSH <input type="checkbox"/> other		Approved By (Accutest PM) / Date:		<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" <input type="checkbox"/> NJ Data of Known Quality Protocol Reporting		<input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other	
Emergency & Rush TIA data available VIA Lablink		Commercial "A" = Results Only, Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Original Raw data				TB ADDED TO RUC @ 1/6/15 2 x 300ML RUI @ 1/6/15	

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

Relinquished by: JM	Date Time: 1/6/15 15:20	Received By: [Signature]	Date Time: 1/6/15 17:30	Relinquished by: [Signature]	Date Time: 1-6-15	Received By: [Signature]
Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:
Relinquished by:	Date Time:	Received By:	Date Time:	Relinquished by:	Date Time:	Received By:

Custody # **946** Intact Not intact Preserved where applicable On Ice Cooler Temp. **16.4**

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB85726 Client: _____ Project: _____
 Date / Time Received: 1/6/2015 5:30:00 PM Delivery Method: _____ Airbill #s: _____
 Cooler Temps (Initial/Adjusted): #1: (1.4/1.3); 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:	<u>IR Gun</u>		
3. Cooler media:	<u>Ice (Bag)</u>		
4. No. Coolers:	<u>1</u>		

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input checked="" type="checkbox"/>		<input 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</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:	<u>Intact</u>		

<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

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F: 732.329.3499

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