

## Scharf, Steven (DEC)

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**From:** Brian Caldwell <bcaldwell@Ensafec.com>  
**Sent:** Thursday, April 14, 2016 10:43 AM  
**To:** Wilkie, Henry (DEC); Scharf, Steven (DEC); Karpinski, Steven (HEALTH); DeFranco, Joseph (NASSAU)  
**Cc:** Fly, Lora B CIV NAVFAC MIDLANT, IPTNORTH; Allan Jenkins; mboufis@bethpagewater.com; pschimmel@bethpagewater.com  
**Subject:** BWD Pilot Test Week #3 lab results  
**Attachments:** pl 6 voc 4 08 16.pdf; samples 1 4 dioxane 4 08 16.pdf

**ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.**

All:

Please find attached the results for week 3 of the BWD Pilot Test. BWD 6-2 was the only well pumping during week 3.

Regards,

Brian

*Brian Caldwell, PG CPG  
EnSafe/Resolution Consultants  
Senior Hydrogeologist  
308 North Peters Road, Suite 200  
Knoxville TN 37922  
Office: (865) 693-3623  
Cell: (865) 803-6295*



**Sample Information:**

Type : Potable Water

Origin: Raw Well

Routine

**LABORATORY RESULTS**

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Bethpage Water District**  
**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-03876

Received : 04/08/2016 11:00 AM Location: Well 6-1

Collected By : PS99

**Lab No. : 1604814-001**

**Client Sample ID. : N-03876**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Benzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/12/2016



Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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Origin: Raw Well

Routine

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**Bethpage Water District**  
**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-03876

Received : 04/08/2016 11:00 AM Location: Well 6-1

Collected By : PS99

**Lab No. : 1604814-001**

**Client Sample ID. : N-03876**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/11/2016 10:25 AM	Container-02 of 02
Bromoform	< 0.50		1	µg/L		04/11/2016 10:25 AM	Container-02 of 02
Bromomethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Chloroethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Chloroform	< 0.50		1	µg/L		04/11/2016 10:25 AM	Container-02 of 02
Chloromethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/11/2016 10:25 AM	Container-02 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/11/2016 10:25 AM	Container-02 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
o-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Styrene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02

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+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/12/2016



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 Origin: Raw Well  
 Routine

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**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To :** Michael Boufis

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-03876

Received : 04/08/2016 11:00 AM Location: Well 6-1

Collected By : PS99

**Lab No. : 1604814-001**

**Client Sample ID. : N-03876**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
tert-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Tetrachloroethene	3.37		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Toluene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/11/2016 10:25 AM	Container-02 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Trichloroethene	* 29.0	*	1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:25 AM	Container-02 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/11/2016 10:25 AM	Container-02 of 02
Surr: 1,2-Dichlorobenzene-d4	96.8		1	%Rec	Limit 70-130	04/11/2016 10:25 AM	Container-02 of 02
Surr: 4-Bromofluorobenzene	91.4		1	%Rec	Limit 70-130	04/11/2016 10:25 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

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Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/12/2016



Sr. Project Manager : Stu Murrell

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**LABORATORY RESULTS**

**Sample Information:**

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Origin: Raw Well

Routine

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**Bethpage Water District**  
**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-08941

Received : 04/08/2016 11:00 AM Location: Well 6-2

Collected By : PS99

**Lab No. : 1604814-002**

**Client Sample ID. : N-08941**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1,2-Trichloroethane	0.59		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1-Dichloroethane	1.33		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Benzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
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 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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**Sample Information:**

Type : Potable Water

Origin: Raw Well

Routine

**LABORATORY RESULTS**

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**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To :** Michael Boufis

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-08941

Received : 04/08/2016 11:00 AM Location: Well 6-2

Collected By : PS99

**Lab No. : 1604814-002**

**Client Sample ID. : N-08941**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/11/2016 10:50 AM	Container-02 of 02
Bromoform	< 0.50		1	µg/L		04/11/2016 10:50 AM	Container-02 of 02
Bromomethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Carbon tetrachloride	1.31		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Chloroethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Chloroform	1.06		1	µg/L		04/11/2016 10:50 AM	Container-02 of 02
Chloromethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
cis-1,2-Dichloroethene	2.29		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/11/2016 10:50 AM	Container-02 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/11/2016 10:50 AM	Container-02 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
o-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Styrene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02

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Analyst: KG

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tert-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Tetrachloroethene	1.83		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Toluene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/11/2016 10:50 AM	Container-02 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Trichloroethene	* 1,280	D*	50	µg/L	5	04/11/2016 11:40 AM	Container-02 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:50 AM	Container-02 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/11/2016 10:50 AM	Container-02 of 02
Surr: 1,2-Dichlorobenzene-d4	94.8		1	%Rec	Limit 70-130	04/11/2016 10:50 AM	Container-02 of 02
Surr: 4-Bromofluorobenzene	91.0		1	%Rec	Limit 70-130	04/11/2016 10:50 AM	Container-02 of 02

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 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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**LABORATORY RESULTS**

Results are only for the samples and analytes requested.  
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:**

Type : Potable Water  
 Origin: Treated Well  
 Routine

**Treatment**

Treated-GAC

**Bethpage Water District  
 25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No ASGAC-6-16-2

Received : 04/08/2016 11:00 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

**Lab No. : 1604814-003**

**Client Sample ID. : ASGAC-6-16-2**

Analytical Method: E524.2 : POC

Analyst: KG

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Benzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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**LABORATORY RESULTS**

Results are only for the samples and analytes requested.  
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:**

Type : Potable Water  
 Origin: Treated Well  
 Routine

**Treatment**

Treated-GAC

**Bethpage Water District  
 25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No ASGAC-6-16-2

Received : 04/08/2016 11:00 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

**Lab No. : 1604814-003**

**Client Sample ID. : ASGAC-6-16-2**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/11/2016 10:00 AM	Container-02 of 02
Bromoform	< 0.50		1	µg/L		04/11/2016 10:00 AM	Container-02 of 02
Bromomethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Chloroethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Chloroform	< 0.50		1	µg/L		04/11/2016 10:00 AM	Container-02 of 02
Chloromethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/11/2016 10:00 AM	Container-02 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/11/2016 10:00 AM	Container-02 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
o-Xylene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Styrene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016



**LABORATORY RESULTS**

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Sample Information:**

Type : Potable Water  
 Origin: Treated Well  
 Routine

**Treatment**

Treated-GAC

**Bethpage Water District  
 25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To : Michael Boufis**

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No ASGAC-6-16-2

Received : 04/08/2016 11:00 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

**Lab No. : 1604814-003**  
**Client Sample ID. : ASGAC-6-16-2**

Analytical Method: E524.2 : POC

Analyst: KG

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
tert-Butylbenzene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Tetrachloroethene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Toluene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/11/2016 10:00 AM	Container-02 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Trichloroethene	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/11/2016 10:00 AM	Container-02 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/11/2016 10:00 AM	Container-02 of 02
Surr: 1,2-Dichlorobenzene-d4	92.6		1	%Rec	Limit 70-130	04/11/2016 10:00 AM	Container-02 of 02
Surr: 4-Bromofluorobenzene	85.2		1	%Rec	Limit 70-130	04/11/2016 10:00 AM	Container-02 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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# Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/8/2016 11:00:00 AM**

Work Order Number: **1604814**

RcptNo: **1**

Received by **Matthew Grasso**

Completed by: *John Stante*

Reviewed by: *Stu Murrell*

Completed Date: 4/8/2016 4:00:36 PM

Reviewed Date: 4/9/2016 2:49:16 PM

Carrier name: Client

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Are matrices correctly identified on Chain of custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- Custody seals intact on sample bottles? Yes  No  Not Present
- Samples in proper container/bottle? Yes  No
- Were correct preservatives used and noted? Yes  No  NA
- Preservative added to bottles:
- Sample Condition? Intact  Broken  Leaking
- Sufficient sample volume for indicated test? Yes  No
- Were container labels complete (ID, Pres, Date)? Yes  No
- All samples received within holding time? Yes  No
- Was an attempt made to cool the samples? Yes  No  NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes  No  NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes  No  To 14.7 °
- Water - Were bubbles absent in VOC vials? Yes  No  No Vials
- Water - Was there Chlorine Present? Yes  No  NA
- Water - pH acceptable upon receipt? Yes  No  No Water
- Are Samples considered acceptable? Yes  No
- Custody Seals present? Yes  No
- Airbill or Sticker? Air Bil  Sticker  Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted?  Yes  No  NA Person Contacted:  
 Contact Mode:  Phone:  Fax:  Email:  In Person:  
 Client Instructions:  
 Date Contacted: Contacted By:  
 Regarding:  
 Comments:  
 CorrectiveAction:

WorkOrder :  
1604814

## Certifications

---

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
PE NNS YLVANIA	68-00350



**Sample Information:**

Type : Potable Water  
 Origin: Raw Well  
 Special

**LABORATORY RESULTS**

Results are only for the samples and analytes requested.  
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

**Bethpage Water District**  
**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To :** Michael Boufis

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No N-03876

Received : 04/08/2016 11:00 AM Location: Well 6-1

Collected By : PS99

**Lab No. : 1604813-001**

**Client Sample ID. : N-03876**

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522				<u>Prep Date:</u> 4/11/2016 6:48:33 AM	<u>Analyst:</u> SH	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	9.6	D +	5	µg/L		04/12/2016 2:42 AM	Container-01 of 02
Surr: 1,4-Dioxane-D8	88.0		1	%Rec	Limit 70-130	04/12/2016 12:13 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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**Sample Information:**  
 Type : Potable Water  
 Origin: Raw Well  
 Special

**LABORATORY RESULTS**

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**Bethpage Water District**  
**25 Adams Ave.**  
**Bethpage, NY 11714**

**Lab No. : 1604813-002**  
**Client Sample ID. : N-08941**

**Attn To :** Michael Boufis  
 Federal ID : 2902817  
 Collected : 04/08/2016 9:45 AM Point No N-08941  
 Received : 04/08/2016 11:00 AM Location: Well 6-2  
 Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/11/2016 6:48:33 AM	<u>Analyst:</u> SH		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	7.3	D +	5	µg/L		04/12/2016 3:07 AM	Container-01 of 02
Surr: 1,4-Dioxane-D8	90.6		1	%Rec	Limit 70-130	04/12/2016 12:37 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
 M-, M+ = Matrix Spike recovery below / above control limit  
 N = Indicates presumptive evidence of compound  
 P = Duplicate RPD outside of control limit  
 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method  
 Result(s) reported meet(s) NYS Regulatory Limit(s).  
 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

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**LABORATORY RESULTS**

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**Sample Information:**

Type : Potable Water  
 Origin: Treated Well  
 Special

**Treatment**

Treated-GAC

**Bethpage Water District**  
**25 Adams Ave.**

**Bethpage, NY 11714**

**Attn To :** Michael Boufis

Federal ID : 2902817

Collected : 04/08/2016 9:45 AM Point No ASGAC-6-16-2

Received : 04/08/2016 11:00 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

**Lab No. : 1604813-003**

**Client Sample ID. : ASGAC-6-16-2**

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/11/2016 6:48:33 AM	<u>Analyst:</u> SH		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	7.4	D +	5	µg/L		04/12/2016 3:32 AM	Container-01 of 02
Surr: 1,4-Dioxane-D8	92.5		1	%Rec	Limit 70-130	04/12/2016 1:02 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.  
 B = Found in Blank  
 D.F. = Dilution Factor D = Results for Dilution  
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated  
 H = Received/analyzed outside of analytical holding time  
 J = Estimated value - below calibration range  
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 r = Reporting limit below calibration range. Value estimated.  
 S = Recovery outside of control limits for this analyte  
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 Result(s) flagged with \* Exceed NYS Regulatory Limit(s). Limit noted.  
 Date Reported : 4/12/2016

*Stu Murrell*  
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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# Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/8/2016 11:00:00 AM**

Work Order Number: **1604813**

RcptNo: **1**

Received by **Matthew Grasso**

Completed by:

Reviewed by:

Completed Date: 4/8/2016 3:57:11 PM

Reviewed Date: 4/9/2016 2:48:31 PM

Carrier name: Client

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Are matrices correctly identified on Chain of custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- Custody seals intact on sample bottles? Yes  No  Not Present
- Samples in proper container/bottle? Yes  No
- Were correct preservatives used and noted? Yes  No  NA
- Preservative added to bottles:
- Sample Condition? Intact  Broken  Leaking
- Sufficient sample volume for indicated test? Yes  No
- Were container labels complete (ID, Pres, Date)? Yes  No
- All samples received within holding time? Yes  No
- Was an attempt made to cool the samples? Yes  No  NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes  No  NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes  No  To 14.7 °
- Water - Were bubbles absent in VOC vials? Yes  No  No Vials
- Water - Was there Chlorine Present? Yes  No  NA
- Water - pH acceptable upon receipt? Yes  No  No Water
- Are Samples considered acceptable? Yes  No
- Custody Seals present? Yes  No
- Airbill or Sticker? Air Bil  Sticker  Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted?  Yes  No  NA Person Contacted:  
 Contact Mode:  Phone:  Fax:  Email:  In Person:  
 Client Instructions:  
 Date Contacted: Contacted By:  
 Regarding:  
 Comments:  
 CorrectiveAction:

WorkOrder :  
1604813

## Certifications

---

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
P E NNS YLVANIA	68-00350