



RESOLUTION CONSULTANTS

To: Lora Fly, DON, NAVFAC MIDLANT

From: Brian Caldwell, P.G., Resolution Consultants

Subject: Week #2 Summary, Bethpage Water District Well 6-2 Pilot Test — NWIRP
Bethpage

Date: 05 April 2016

Week #2 Summary

The BWD Pilot Test continued with groundwater pumping at well 6-1 on Monday, March 28; pumping times, interval flow rates, interval total gallons, and daily gallons pumped are provided in the following table.

Date	Well 6-1 Time on	Well 6-1 Time Off	Well 6-1 Hours Run	Flow Rate (gpm)	Interval Pumpage (K Gal)	Daily Pumpage (K Gal)
3/28/2016	0:00	23:59:00	23:59	1212	1744.07	1744.07
3/29/2016	0:00	23:59:00	23:59	1208	1738.31	1738.31
3/30/2016	0:00	23:59:00	23:59	1209	1739.75	1739.75
3/31/2016	0:00	23:59:00	23:59	1205	1734.00	1734.00
4/1/2016	0:00	12:01	12:01	1207	870.25	870.25
4/2/2016	off	--	--	--	--	--
4/3/2016	off	--	--	--	--	--
Sums =			4.50 days	1,208 ave. gpm	7,826,373 tot. gals	7,826,373 tot. gals

Well 6-2 located at Plant #6 was not operated during the above dates.

Preliminary rainfall data (daily inches) for the above dates is:

3/26/2016	0
3/27/2016	0
3/28/2016	0.52
3/29/2016	0
3/30/2016	0
3/31/2016	0
4/1/2016	0.04

Week #2 samples were collected on Friday, April 1. Chemicals detected in the raw water for wells 6-1 and 6-2, and the treated water used for distribution are summarized below:

Chemicals Detected 4/1/16	Well 6-1	Well 6-2	Treated Water	NYS limit
1,4-Dioxane	11	6.9	11	--
1,1-Dichloroethane	<0.50	1.03	<0.50	5
Carbon Tetrachloride	<0.50	0.82	<0.50	5
Chloroform	<0.50	0.77	<0.50	--
cis-1,2-Dichloroethene	<0.50	1.64	<0.50	5
Tetrachloroethene	3.19	1	<0.50	5
Total Trihalomethanes	<2.00	0.77 J	<2.00	80
Trichloroethene	36.6	581	<0.50	5
Nitrate as N, mg/L	3.77	2.77	3.66	10
Perchlorate	3.1	2.4	3.3	18

All units µg/L, except as noted.

Exceed NYS Regulatory Limits

Laboratory reports were forwarded to Mr. Henry Wilkie of NYSDEC via email dated April 5, 2016.

Week #3

Week #3 of the Pilot Test began on Monday, April 4; pumping will be conducted at well 6-2 only for this weekly pumping cycle.



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

Lab No. : 1604039-001
Client Sample ID. : N-03876

Attn To : Michael Boufis
 Federal ID : 2902817
 Collected : 04/01/2016 11:25 AM Point No: N-03876
 Received : 04/01/2016 11:55 AM Location: Well 6-1
 Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/4/2016 7:08:19 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	11	D +	5	µg/L		04/04/2016 10:33 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	103		1	%Rec	Limit 70-130	04/04/2016 7:16 PM	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 : 4/5/2016

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

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Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604039-002

Client Sample ID. : N-08941

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/01/2016 11:25 AM Point No: N-08941

Received : 04/01/2016 11:55 AM Location: Well 6-2

Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/4/2016 7:08:19 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	6.9	D +	5	µg/L		04/04/2016 10:57 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	102		1	%Rec	Limit 70-130	04/04/2016 7:40 PM	Container-01 of 02

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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

Lab No. : 1604039-003
Client Sample ID. : ASGAC-6-16-2

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/01/2016 11:30 AM Point No: ASGAC-6-16-2

Received : 04/01/2016 11:55 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/4/2016 7:08:19 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	11	D +	5	µg/L		04/04/2016 11:22 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	96.6		1	%Rec	Limit 70-130	04/04/2016 8:04 PM	Container-01 of 02

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Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/1/2016 11:55:00 AM**

Work Order Number: **1604039**

RcptNo: **1**

Received by: **Erick Johnson**

Completed by: *Paige Deherty*

Reviewed by: *Stu Murrell*

Completed Date: 4/1/2016 1:11:10 PM

Reviewed Date: 4/1/2016 2:53:40 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: Samples were collected the same day and chilled.
- Sample Temp. taken and recorded upon receipt? Yes No To 7.1°
- 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 Bill Sticker Not Present

Airbill No:

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 :
1604039

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

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Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/01/2016 11:25 AM Point No: N-03876

Received : 04/01/2016 11:55 AM Location: Well 6-1

Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Bromodichloromethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02

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Date Reported : 4/5/2016



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Federal ID : 2902817

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Received : 04/01/2016 11:55 AM Location: Well 6-1

Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Bromoform	< 0.50		1	µg/L		04/04/2016 9:46 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		04/04/2016 9:46 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/04/2016 9:46 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/04/2016 9:46 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
tert-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02
Tetrachloroethene	3.19		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02

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Federal ID : 2902817

Collected : 04/01/2016 11:25 AM Point No: N-03876

Received : 04/01/2016 11:55 AM Location: Well 6-1

Collected By : PS99

<u>Analytical Method:</u> E524.2 : POC							<u>Analyst:</u> MaiN	
<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>	
Toluene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02	
Total Trihalomethanes	< 2.00		1	µg/L	80	04/04/2016 9:46 PM	Container-01 of 02	
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02	
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02	
Trichloroethene	* 36.6	*	1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02	
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/04/2016 9:46 PM	Container-01 of 02	
Vinyl chloride	< 0.50		1	µg/L	2	04/04/2016 9:46 PM	Container-01 of 02	
Surr: 1,2-Dichlorobenzene-d4	88.2		1	%Rec	Limit 70-130	04/04/2016 9:46 PM	Container-01 of 02	
Surr: 4-Bromofluorobenzene	86.4		1	%Rec	Limit 70-130	04/04/2016 9:46 PM	Container-01 of 02	

<u>Analytical Method:</u> Colilert : IOC							<u>Analyst:</u> C D	
<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>	
E Coli	Absent		1	N/A	Absent	04/02/2016 11:00 AM	Container-01 of 01	
Total Coliform	Negative		1	N/A	Negative	04/02/2016 11:00 AM	Container-01 of 01	

<u>Analytical Method:</u> E353.2 : IOC							<u>Analyst:</u> SO	
<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>	
Nitrate as N	3.77	D	5	mg/L	10	04/02/2016 8:40 AM	Container-01 of 01	

<u>Analytical Method:</u> E314.0 : IOC							<u>Analyst:</u> CA	
<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>	
Perchlorate	3.1		1	µg/L	18	04/04/2016	Container-01 of 01	

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Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

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1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,1-Dichloroethane	1.03		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Bromodichloromethane	< 0.50		1	µg/L		04/04/2016 10:11 PM	Container-01 of 02

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

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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 : 4/5/2016



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

Lab No. : 1604034-002
Client Sample ID. : N-08941

Attn To : Michael Boufis
 Federal ID : 2902817
 Collected : 04/01/2016 11:25 AM Point No: N-08941
 Received : 04/01/2016 11:55 AM Location: Well 6-2
 Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

<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>
Bromoform	< 0.50		1	µg/L		04/04/2016 10:11 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Carbon tetrachloride	0.82		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Chloroform	0.77		1	µg/L		04/04/2016 10:11 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
cis-1,2-Dichloroethene	1.64		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/04/2016 10:11 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/04/2016 10:11 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
tert-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02
Tetrachloroethene	1.00		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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 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 : 4/5/2016

LABORATORY RESULTS

Results are only for the samples and analytes requested.
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Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604034-002
Client Sample ID. : N-08941

Attn To : Michael Boufis
 Federal ID : 2902817
 Collected : 04/01/2016 11:25 AM Point No: N-08941
 Received : 04/01/2016 11:55 AM Location: Well 6-2
 Collected By : PS99

<u>Analytical Method:</u> E524.2 : POC							<u>Analyst:</u> MaiN	
<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>	
Toluene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02	
Total Trihalomethanes	0.77	J	1	µg/L	80	04/04/2016 10:11 PM	Container-01 of 02	
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02	
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02	
Trichloroethene	* 581	D*	25	µg/L	5	04/05/2016 10:54 AM	Container-02 of 02	
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/04/2016 10:11 PM	Container-01 of 02	
Vinyl chloride	< 0.50		1	µg/L	2	04/04/2016 10:11 PM	Container-01 of 02	
Surr: 1,2-Dichlorobenzene-d4	91.4		1	%Rec	Limit 70-130	04/04/2016 10:11 PM	Container-01 of 02	
Surr: 4-Bromofluorobenzene	91.6		1	%Rec	Limit 70-130	04/04/2016 10:11 PM	Container-01 of 02	

<u>Analytical Method:</u> Colilert : IOC							<u>Analyst:</u> C D	
<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>	
E Coli	Absent		1	N/A	Absent	04/02/2016 11:00 AM	Container-01 of 01	
Total Coliform	Negative		1	N/A	Negative	04/02/2016 11:00 AM	Container-01 of 01	

<u>Analytical Method:</u> E353.2 : IOC							<u>Analyst:</u> SO	
<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>	
Nitrate as N	2.77	D	5	mg/L	10	04/02/2016 8:43 AM	Container-01 of 01	

<u>Analytical Method:</u> E314.0 : IOC							<u>Analyst:</u> CA	
<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>	
Perchlorate	2.4		1	µg/L	18	04/04/2016	Container-01 of 01	

Qualifiers: E = Value above quantitation range, Value estimated.
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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 : 4/5/2016

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.

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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 : 04/01/2016 11:30 AM Point No: ASGAC-6-16-2

Received : 04/01/2016 11:55 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1604034-003

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

Analytical Method: E524.2 : POC

Analyst: MaiN

<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	04/04/2016 9:21 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Bromodichloromethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	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

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S = Recovery outside of control limits for this analyte

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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 : 4/5/2016



Sr. Project Manager : Stu Murrell

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LABORATORY RESULTS

Results are only for the samples and analytes requested.

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Sample Information:

Type : Potable Water
 Origin: Treated Well
 Routine

Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604034-003
Client Sample ID. : ASGAC-6-16-2

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/01/2016 11:30 AM Point No: ASGAC-6-16-2

Received : 04/01/2016 11:55 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
Bromoform	< 0.50		1	µg/L		04/04/2016 9:21 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		04/04/2016 9:21 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/04/2016 9:21 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/04/2016 9:21 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
tert-Butylbenzene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Tetrachloroethene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 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 : 4/5/2016

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: Treated Well
 Routine

LABORATORY RESULTS

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Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.

Lab No. : 1604034-003

Bethpage, NY 11714

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

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/01/2016 11:30 AM Point No: ASGAC-6-16-2

Received : 04/01/2016 11:55 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Analytical Method: E524.2 : POC

Analyst: MaiN

<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>
Toluene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/04/2016 9:21 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Trichloroethene	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/04/2016 9:21 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/04/2016 9:21 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	85.8		1	%Rec	Limit 70-130	04/04/2016 9:21 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	82.2		1	%Rec	Limit 70-130	04/04/2016 9:21 PM	Container-01 of 02

Analytical Method: E353.2 : IOC

Analyst: SO

<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>
Nitrate as N	3.66	D	5	mg/L	10	04/02/2016 8:45 AM	Container-01 of 01

Analytical Method: E314.0 : IOC

Analyst: CA

<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>
Perchlorate	3.3		1	µg/L	18	04/04/2016	Container-01 of 01

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

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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 : 4/5/2016



Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.



Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/1/2016 11:55:00 AM**

Work Order Number: **1604034**

RcptNo: **1**

Received by: **Erick Johnson**

Completed by: *Maura Rubin*

Reviewed by: *Stu Murrell*

Completed Date: 4/1/2016 12:54:47 PM

Reviewed Date: 4/1/2016 4:53:33 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: Samples were collected the same day and chilled.
- Sample Temp. taken and recorded upon receipt? Yes No To 7.1°
- 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 Bill Sticker Not Present

Airbill No:

Case Number:

SDG:

SAS:

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

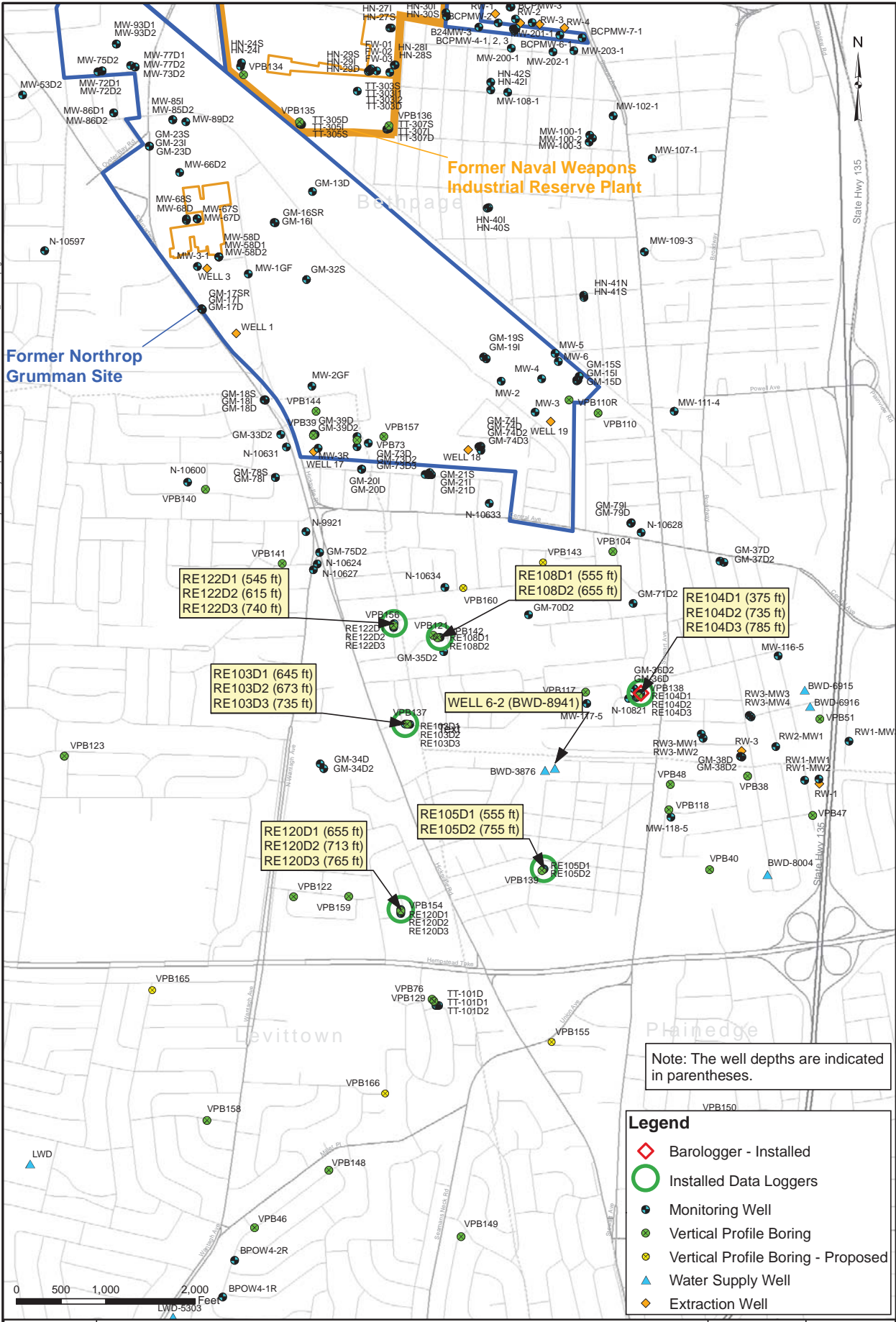
Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:
 Client Instructions:
 Date Contacted: Contacted By:
 Regarding:
 Comments:
 CorrectiveAction:

WorkOrder :
1604034

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350

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Note: The well depths are indicated in parentheses.

Legend	
	Barologger - Installed
	Installed Data Loggers
	Monitoring Well
	Vertical Profile Boring
	Vertical Profile Boring - Proposed
	Water Supply Well
	Extraction Well



INSTALLED DATA LOGGER LOCATIONS FOR
BWD WELL 6-2 PILOT TEST
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK

CONTRACT NUMBER N62470-11-D8013	CTO NUMBER WE69
APPROVED BY AJ	DATE 9/3/2015
APPROVED BY	DATE
FIGURE NO. 2	REV 0