

July 17, 2018

Rob King  
Hampton Bays Water District  
P.O. Box 1013  
Hampton Bays, NY 11946

RE: Project: NO2/NO3 7/11  
Pace Project No.: 7057882

Dear Rob King:  
Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Stu Murrell  
stu.murrell@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Warren Booth, Hampton Bays Water District  
John Collins, H2M Group  
Stella Michaels, Hampton Bays Water District  
Paul Ponturo, H2M Group



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: NO2/NO3 7/11

Pace Project No.: 7057882

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### Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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## SAMPLE SUMMARY

Project: NO2/NO3 7/11

Pace Project No.: 7057882

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
7057882001	HB3	Drinking Water	07/11/18 08:00	07/11/18 16:10
7057882002	HB8	Drinking Water	07/11/18 09:50	07/11/18 16:10

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### SAMPLE ANALYTE COUNT

Project: NO2/NO3 7/11

Pace Project No.: 7057882

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7057882001	HB3	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7057882002	HB8	EPA 353.2	SDO	2
		EPA 353.2	SDO	1

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## ANALYTICAL RESULTS

Project: NO2/NO3 7/11

Pace Project No.: 7057882

Sample: HB3		Lab ID: 7057882001		Collected: 07/11/18 08:00	Received: 07/11/18 16:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>353.2 Nitrogen, NO2/NO3 unpres</b>		Analytical Method: EPA 353.2							
Nitrate as N	<b>0.77</b>	mg/L	0.25		5		07/12/18 16:02	14797-55-8	
Nitrate-Nitrite (as N)	<b>0.77</b>	mg/L	0.25		5		07/12/18 16:02	7727-37-9	M1
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050		1		07/12/18 09:52	14797-65-0	

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## ANALYTICAL RESULTS

Project: NO2/NO3 7/11

Pace Project No.: 7057882

Sample: HB8		Lab ID: 7057882002		Collected: 07/11/18 09:50	Received: 07/11/18 16:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>353.2 Nitrogen, NO2/NO3 unpres</b>		Analytical Method: EPA 353.2							
Nitrate as N	<b>2.8</b>	mg/L	0.25		5		07/12/18 16:06	14797-55-8	
Nitrate-Nitrite (as N)	<b>2.8</b>	mg/L	0.25		5		07/12/18 16:06	7727-37-9	
<b>353.2 Nitrogen, NO2</b>		Analytical Method: EPA 353.2							
Nitrite as N	<b>&lt;0.050</b>	mg/L	0.050		1		07/12/18 09:56	14797-65-0	

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### QUALITY CONTROL DATA

Project: NO2/NO3 7/11

Pace Project No.: 7057882

QC Batch: 74820      Analysis Method: EPA 353.2  
 QC Batch Method: EPA 353.2      Analysis Description: 353.2 Nitrite, Unpres.  
 Associated Lab Samples: 7057882001, 7057882002

METHOD BLANK: 343893      Matrix: Water

Associated Lab Samples: 7057882001, 7057882002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	07/12/18 09:50	

LABORATORY CONTROL SAMPLE: 343894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	1	1.0	100	90-110	

MATRIX SPIKE SAMPLE: 343895

Parameter	Units	7057882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.50	100	90-110	

MATRIX SPIKE SAMPLE: 343897

Parameter	Units	7057892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	.5	0.60	120	90-110	M1

SAMPLE DUPLICATE: 343896

Parameter	Units	7057882001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 343898

Parameter	Units	7057892001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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**QUALITY CONTROL DATA**

Project: NO2/NO3 7/11

Pace Project No.: 7057882

QC Batch: 74847 Analysis Method: EPA 353.2  
 QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.  
 Associated Lab Samples: 7057882001, 7057882002

METHOD BLANK: 343989 Matrix: Water

Associated Lab Samples: 7057882001, 7057882002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	07/12/18 16:00	

LABORATORY CONTROL SAMPLE: 343990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.0	101	90-110	

MATRIX SPIKE SAMPLE: 343991

Parameter	Units	7057882001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.77	2.5	4.1	132	90-110	M1

MATRIX SPIKE SAMPLE: 343993

Parameter	Units	7057892001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.8	5	14.8	119	90-110	M6

SAMPLE DUPLICATE: 343992

Parameter	Units	7057882001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.77	0.76	1	20	

SAMPLE DUPLICATE: 343994

Parameter	Units	7057892001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	8.8	8.7	1	20	

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**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: NO2/NO3 7/11

Pace Project No.: 7057882

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NO2/NO3 7/11

Pace Project No.: 7057882

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7057882001	HB3	EPA 353.2	74847		
7057882002	HB8	EPA 353.2	74847		
7057882001	HB3	EPA 353.2	74820		
7057882002	HB8	EPA 353.2	74820		

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WO#: 7057882



1747

# Sample Request Form PUBLIC WATER SUPPLIER

Date: 7-11-18

Collected By: K. Tutino

Accepted By: [Signature]

Cooler Temp: 2.9 °C

WELL OFF LINE

WELL RUN TO SYSTEM

YES  NO VOC'S PRESERVED WITH HCl

**Client Info:**  
 Name or Code: HAMPTON BAYS WATER DISTRICT  
 Address: P.O. BOX 1013  
HAMPTON BAYS, NEW YORK 11946  
(631) 728-0179

Phone #: \_\_\_\_\_  
 Attn: \_\_\_\_\_  
 Proj. # or (Name): \_\_\_\_\_  
 Bill To: \_\_\_\_\_  
 Copies To: \_\_\_\_\_

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

**Sample Info:**

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl <sub>2</sub>	pH/Temp	Analysis	Lab No.
7-11-18	PW	#3	D	-	RO	5.8	7.27	NITRATE/NITRITE	001
7-11-18	PW	#8	D	-	RO	1.14	7.34	NITRATE/NITRITE	002
8:47 7-11-18	SW	WELL 5-1	RW	-	S	6.89 /4.3°C		POC'S	
10:11 7-11-18	PW	TUTINO 49 ROMANO PR	D	-	S	5.55	7.04	METALS	

Remarks:



Sample Condition Upon F

WO#: 7057882

Client Name: HBW

PM: SWM Due Date: 07/17/18 CLIENT: HBW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH091 Correction Factor: 0.0

Cooler Temperature (°C): 2.9 Cooler Temperature Corrected (°C): 2.9

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 7/17/18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? YES NO

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

Table with 16 rows and 3 columns. Columns: Question, Yes/No/N/A, and Comments. Rows include Chain of Custody Present, Chain of Custody Filled Out, Chain of Custody Relinquished, Sampler Name & Signature on COC, Samples Arrived within Hold Time, Short Hold Time Analysis (<72hr), Rush Turn Around Time Requested, Sufficient Volume: (Triple volume provided for MS/MSD), Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, pH paper Lot #, All containers needing preservation are found to be in compliance with EPA recommendation?, Samples checked for dechlorination, Headspace in VOA Vials (>6mm), Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot # (if applicable).

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Time of collection transcribed off bottles