Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

April 07, 2019

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

RE: Project: NO2/NO3 4/3
Pace Project No.: 7084402

Dear Rob King:
Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2019. 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

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CERTIFICATIONS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

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 4/3
Pace Project No.: 7084402

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7084402001	**S-50970**	Drinking Water	04/03/19 08:07	04/03/19 16:30
7084402002	**S-74071**	Drinking Water	04/03/19 08:20	04/03/19 16:30
7084402003	**S-58350**	Drinking Water	04/03/19 08:50	04/03/19 16:30
7084402004	**S-58351**	Drinking Water	04/03/19 08:42	04/03/19 16:30
7084402005	**S-58352**	Drinking Water	04/03/19 09:00	04/03/19 16:30
7084402006	**S-127163**	Drinking Water	04/03/19 09:15	04/03/19 16:30

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SAMPLE ANALYTE COUNT

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Lab ID	Sample ID	Method	Analysts	Analytes Reported
7084402001	**S-50970**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7084402002	**S-74071**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7084402003	**S-58350**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7084402004	**S-58351**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7084402005	**S-58352**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1
7084402006	**S-127163**	EPA 353.2	SDO	2
		EPA 353.2	SDO	1

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-50970 **Lab ID: 7084402001** Collected: 04/03/19 08:07 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**3.3**	mg/L	0.50		10		04/04/19 00:43	14797-55-8	
Nitrate-Nitrite (as N)	**3.3**	mg/L	0.50		10		04/04/19 00:43	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:21	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-74071 **Lab ID: 7084402002** Collected: 04/03/19 08:20 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**4.4**	mg/L	0.50		10		04/04/19 00:47	14797-55-8	
Nitrate-Nitrite (as N)	**4.4**	mg/L	0.50		10		04/04/19 00:47	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:22	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-58350 **Lab ID: 7084402003** Collected: 04/03/19 08:50 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**0.13**	mg/L	0.050		1		04/04/19 00:48	14797-55-8	
Nitrate-Nitrite (as N)	**0.13**	mg/L	0.050		1		04/04/19 00:48	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:23	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-58351 **Lab ID: 7084402004** Collected: 04/03/19 08:42 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**0.36**	mg/L	0.050		1		04/04/19 00:49	14797-55-8	
Nitrate-Nitrite (as N)	**0.36**	mg/L	0.050		1		04/04/19 00:49	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:25	14797-65-0	

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-58352 **Lab ID: 7084402005** Collected: 04/03/19 09:00 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**0.48**	mg/L	0.050		1		04/04/19 00:50	14797-55-8	
Nitrate-Nitrite (as N)	**0.48**	mg/L	0.050		1		04/04/19 00:50	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:26	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Sample: S-127163 **Lab ID: 7084402006** Collected: 04/03/19 09:15 Received: 04/03/19 16:30 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrate as N	**2.0**	mg/L	0.50		10		04/04/19 00:51	14797-55-8	
Nitrate-Nitrite (as N)	**2.0**	mg/L	0.50		10		04/04/19 00:51	7727-37-9	
353.2 Nitrogen, NO2	Analytical Method: EPA 353.2								
Nitrite as N	**<0.050**	mg/L	0.050		1		04/03/19 21:27	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NO2/NO3 4/3
Pace Project No.: 7084402

QC Batch: 107973 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7084402001, 7084402002, 7084402003, 7084402004, 7084402005

METHOD BLANK: 500345 Matrix: Water
Associated Lab Samples: 7084402001, 7084402002, 7084402003, 7084402004, 7084402005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	04/03/19 21:16	

LABORATORY CONTROL SAMPLE: 500346

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

MATRIX SPIKE SAMPLE: 500347

Parameter	Units	7084281001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	108	90-110	

MATRIX SPIKE SAMPLE: 500349

Parameter	Units	7084411001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.54	108	90-110	

SAMPLE DUPLICATE: 500348

Parameter	Units	7084281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 500350

Parameter	Units	7084411001 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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NO2/NO3 4/3
Pace Project No.: 7084402

QC Batch: 107975
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrite, Unpres.
Associated Lab Samples: 7084402006

METHOD BLANK: 500364 Matrix: Water
Associated Lab Samples: 7084402006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.050	0.050	04/03/19 23:12	

LABORATORY CONTROL SAMPLE: 500365

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: 500366

Parameter	Units	7084416001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.55	110	90-110	

MATRIX SPIKE SAMPLE: 500368

Parameter	Units	7084421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	<0.050	0.5	0.56	112	90-110	M1

SAMPLE DUPLICATE: 500367

Parameter	Units	7084416001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

SAMPLE DUPLICATE: 500369

Parameter	Units	7084421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrite as N	mg/L	<0.050	<0.050		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NO2/NO3 4/3
Pace Project No.: 7084402

QC Batch: 107979 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate, Unpres.
Associated Lab Samples: 7084402001, 7084402002, 7084402003, 7084402004, 7084402005, 7084402006

METHOD BLANK: 500393 Matrix: Water
Associated Lab Samples: 7084402001, 7084402002, 7084402003, 7084402004, 7084402005, 7084402006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate-Nitrite (as N)	mg/L	<0.050	0.050	04/04/19 00:38	

LABORATORY CONTROL SAMPLE: 500394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	1	1.1	106	90-110	

MATRIX SPIKE SAMPLE: 500395

Parameter	Units	7084281001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.72	0.5	1.2	98	90-110	

MATRIX SPIKE SAMPLE: 500397

Parameter	Units	7084402001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.3	5	8.7	109	90-110	

SAMPLE DUPLICATE: 500396

Parameter	Units	7084281001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	0.72	0.71	1	20	

SAMPLE DUPLICATE: 500398

Parameter	Units	7084402001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrate-Nitrite (as N)	mg/L	3.3	3.4	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: NO2/NO3 4/3
Pace Project No.: 7084402

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.

SAMPLE QUALIFIERS

Sample: 7084402003
[1] RUN TO WASTE
Sample: 7084402004
[1] RUN TO WASTE
Sample: 7084402005
[1] RUN TO WASTE

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NO2/NO3 4/3
Pace Project No.: 7084402

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7084402001	**S-50970**	EPA 353.2	107979		
7084402002	**S-74071**	EPA 353.2	107979		
7084402003	**S-58350**	EPA 353.2	107979		
7084402004	**S-58351**	EPA 353.2	107979		
7084402005	**S-58352**	EPA 353.2	107979		
7084402006	**S-127163**	EPA 353.2	107979		
7084402001	**S-50970**	EPA 353.2	107973		
7084402002	**S-74071**	EPA 353.2	107973		
7084402003	**S-58350**	EPA 353.2	107973		
7084402004	**S-58351**	EPA 353.2	107973		
7084402005	**S-58352**	EPA 353.2	107973		
7084402006	**S-127163**	EPA 353.2	107975		

WO# : 7084402

7084402

Sample Request Form
PUBLIC WATER SUPPLIER

Date: 4-3-19

Collected By: W Booth

Accepted By:

Cooler Temp: 3.4 °C

C/S 4/3/19 1310

☒ WELL OFF LINE 3-1, 3-2, 3-3

☒ WELL RUN TO SYSTEM 2-1, 2-2, 5-1

☐ YES ☐ NO VOC'S PRESERVED WITH HCl

Back 1630

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_2	Field Readings pH/Temp	Analysis	Lab No.
8:07 4-3-19	GW	WELL 2-1	RW	-	RO			N | N	
8:20 4-3-19	GW	WELL 2-2	RW	-	RO			N | N	
8:50 4-3-19	GW	WELL 3-1	RW	-	RO			N | N	
8:43 4-3-19	GW	WELL 3-2	RW	-	RO			N | N	
9:00 4-3-19	GW	WELL 3-3	RW	-	RO			N | N	
9:15 4-3-19	GW	WELL 5-1	RW	-	RO			N | N	

Remarks:

Pace Analytical
Long Island Laboratory

Sample Condition Upon Rec

WO#: 7084402
PM: SWM Due Date: 04/09/19
CLIENT: HBW

Client Name: HBW Proje

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals intact: ☑ Yes ☐ No Temperature Blank Present: ☐ Yes ☐ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ Ziploc ☑ None ☐ Other Type of Ice: Wet Blue None

Thermometer Used: TH091 Correction Factor: 0.0 ☐ Samples on ice, cooling process has begun

Cooler Temperature (°C): 3.4 Cooler Temperature Corrected (°C): 3.4 Date/Time 5035A kits placed in freezer:

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☑ N/A, water sample) Date and Initials of person examining contents: PD 4/3/19

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 orignate 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.

				COMMENTS:
Chain of Custody Present:	☑Yes	☐No		1.
Chain of Custody Filled Out:	☑Yes	☐No		2.
Chain of Custody Relinquished:	☑Yes	☐No		3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No		5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No		6.
Rush Turn Around Time Requested:	☐Yes	☑No		7.
Sufficient Volume: (Triple volume provided for MS/MSD	☑Yes	☐No		8.
Correct Containers Used:	☑Yes	☐No		9.
-Pace Containers Used:	☑Yes	☐No		
Containers Intact:	☑Yes	☐No		10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	☑Yes	☐No		12.
-Includes date/time/ID/Analysis Matrix SL WT OIL				
All containers needing preservation have been checked	☐Yes	☐No	☑N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl, NaOH>9 Sulfide, NAOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	☐Yes	☐No	☑N/A	Initial when completed: / Lot # of added preservative: / Date/Time preservative added:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

* PM (Project Manager) review is documented electronically in LIMS.