

December 11, 2018

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

RE: Project: FE/MN 11/30  
Pace Project No.: 7072958

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 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: FE/MN 11/30

Pace Project No.: 7072958

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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: FE/MN 11/30

Pace Project No.: 7072958

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
7072958001	S-108065	Drinking Water	11/30/18 10:56	12/05/18 16:40
7072958002	S-108066	Drinking Water	11/30/18 11:04	12/05/18 16:40

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### SAMPLE ANALYTE COUNT

Project: FE/MN 11/30

Pace Project No.: 7072958

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Lab ID	Sample ID	Method	Analysts	Analytes Reported
7072958001	S-108065	EPA 200.7	SK2	2
7072958002	S-108066	EPA 200.7	SK2	2

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## ANALYTICAL RESULTS

Project: FE/MN 11/30

Pace Project No.: 7072958

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**Sample: S-108065**      **Lab ID: 7072958001**      Collected: 11/30/18 10:56      Received: 12/05/18 16:40      Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.7 MET ICP, Drinking Water</b>		Analytical Method: EPA 200.7							
Iron	<b>0.56</b>	mg/L	0.020		1		12/10/18 17:32	7439-89-6	
Manganese	<b>0.13</b>	mg/L	0.010		1		12/10/18 17:32	7439-96-5	

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## ANALYTICAL RESULTS

Project: FE/MN 11/30

Pace Project No.: 7072958

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: S-108066</b>									
<b>Lab ID: 7072958002</b>									
Collected: 11/30/18 11:04									
Received: 12/05/18 16:40									
Matrix: Drinking Water									
<b>200.7 MET ICP, Drinking Water</b>									
Analytical Method: EPA 200.7									
Iron	<b>2770</b>	ug/L	20.0		1		12/10/18 17:37	7439-89-6	
Manganese	<b>0.14</b>	mg/L	0.010		1		12/10/18 17:37	7439-96-5	

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### QUALITY CONTROL DATA

Project: FE/MN 11/30  
Pace Project No.: 7072958

QC Batch: 94199 Analysis Method: EPA 200.7  
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET No Prep Drinking Water  
Associated Lab Samples: 7072958001, 7072958002

METHOD BLANK: 435465 Matrix: Drinking Water  
Associated Lab Samples: 7072958001, 7072958002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	mg/L	<0.020	0.020	12/10/18 17:30	
Manganese	mg/L	<0.010	0.010	12/10/18 17:30	

LABORATORY CONTROL SAMPLE: 435466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	2	1.9	97	85-115	
Manganese	mg/L	0.25	0.24	95	85-115	

MATRIX SPIKE SAMPLE: 435469

Parameter	Units	7072958001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	0.56	2	2.5	97	70-130	
Manganese	mg/L	0.13	0.25	0.36	94	70-130	

MATRIX SPIKE SAMPLE: 435471

Parameter	Units	7072958002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	2770 ug/L	2	5.1	116	70-130	
Manganese	mg/L	0.14	0.25	0.40	102	70-130	

SAMPLE DUPLICATE: 435468

Parameter	Units	7072958001 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	mg/L	0.56	0.55	2	20	
Manganese	mg/L	0.13	0.12	3	20	

SAMPLE DUPLICATE: 435470

Parameter	Units	7072958002 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron	mg/L	2770 ug/L	2.7	3	20	
Manganese	mg/L	0.14	0.14	4	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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## QUALIFIERS

Project: FE/MN 11/30

Pace Project No.: 7072958

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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.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FE/MN 11/30

Pace Project No.: 7072958

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
7072958001	S-108065	EPA 200.7	94199		
7072958002	S-108066	EPA 200.7	94199		

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# Sample Request Form PUBLIC WATER SUPPLIER

Date: 11-30-18

WELL OFF LINE

Collected By: W Booth

WELL RUN TO SYSTEM

Accepted By: [Signature]

Cooler Temp: 2.7 °C

YES  NO VOC'S PRESERVED WITH HCl

Back to 1640

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	

WO#: 7072958



7072958

**Client Info:**

Name or Code: HAMPTON BAYS WATER DISTRICT  
 Address: PO BOX 1043  
HAMPTON BAYS, NEW YORK 11946  
 (631) 728-0179

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

**Sample Info:**

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl <sub>2</sub> pH/Temp	Analysis	Lab No.
10:50 11-30-18	GW	WELL 4-1	RWD	-	S		IRON, MANGANESE	001
11:04 11-30-18	GW	WELL 4-2	RW	-	S		IRON, MANGANESE	002

Remarks: NEED A RUSH ON THESE PLEASE  
Thank you Warren Booth



### Sample Condition Upon Receipt

**WO#: 7072958**

Client Name: HBW

Project: PM: SWM Due Date: 12/13/18  
 CLIENT: HBW

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

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

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): 2.7 Cooler Temperature Corrected (°C): 2.7

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: Ed 12/15/18

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.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL		
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HC857466</u>		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_