

September 26, 2018

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

RE: Project: 537 9/19  
Pace Project No.: 7065379

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 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: 537 9/19

Pace Project No.: 7065379

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### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Connecticut Certification #: PH-0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maryland Certification: #346  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity  
Missouri Certification #: 236  
Montana Certification #: Cert 0074  
Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL022  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
North Dakota Certification #: R-216  
Oklahoma Certification #: D9947  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
South Carolina Certification: #96042001  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
US Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Environmental Certification #: 460165  
Wyoming Certification: FL NELAC Reciprocity  
West Virginia Certification #: 9962C  
Wisconsin Certification #: 399079670  
Wyoming (EPA Region 8): FL NELAC Reciprocity

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## SAMPLE SUMMARY

Project: 537 9/19

Pace Project No.: 7065379

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| Lab ID     | Sample ID             | Matrix         | Date Collected | Date Received  |
|------------|-----------------------|----------------|----------------|----------------|
| 7065379001 | REILLY 16 NORWOOD RD. | Drinking Water | 09/19/18 10:15 | 09/19/18 14:43 |

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### SAMPLE ANALYTE COUNT

Project: 537 9/19

Pace Project No.: 7065379

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| Lab ID     | Sample ID             | Method  | Analysts | Analytes Reported | Laboratory |
|------------|-----------------------|---------|----------|-------------------|------------|
| 7065379001 | REILLY 16 NORWOOD RD. | EPA 537 | NS1      | 8                 | PASI-O     |

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 537 9/19

Pace Project No.: 7065379

**Sample: REILLY 16 NORWOOD RD. Lab ID: 7065379001** Collected: 09/19/18 10:15 Received: 09/19/18 14:43 Matrix: Drinking Water

| Parameters                       | Results | Units  | Report Limit | Reg. Limit | DF | Prepared       | Analyzed       | CAS No.   | Qual |
|----------------------------------|---------|--|--------------|------------|----|----------------|----------------|-----------|------|
| <b>537 PFOA Compounds, Water</b> |         | Analytical Method: EPA 537 Preparation Method: EPA 537 |              |            |    |                |                |           |      |
| Perfluorobutanesulfonic acid     | <0.084  | ug/L   | 0.084        |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 375-73-5  | 1j   |
| Perfluoroheptanoic acid          | <0.0094 | ug/L   | 0.0094       |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 375-85-9  | 1j   |
| Perfluorohexanesulfonic acid     | <0.028  | ug/L   | 0.028        |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 355-46-4  | 1j   |
| Perfluorononanoic acid           | <0.019  | ug/L   | 0.019        |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 375-95-1  | 1j   |
| Perfluorooctanesulfonic acid     | <0.038  | ug/L   | 0.038        |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 1763-23-1 | 1j   |
| Perfluorooctanoic acid           | 0.0024  | ug/L   | 0.0019       |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 | 335-67-1  | 1j   |
| <b>Surrogates</b>                |         |  |              |            |    |                |                |           |      |
| 13C2-PFDA (S)                    | 114     | %  | 70-130       |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 |           |      |
| 13C2-PFHxA (S)                   | 97      | %  | 70-130       |            | 1  | 09/25/18 19:04 | 09/26/18 12:31 |           |      |

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### QUALITY CONTROL DATA

Project: 537 9/19  
Pace Project No.: 7065379

QC Batch: 480393      Analysis Method: EPA 537  
QC Batch Method: EPA 537      Analysis Description: 537 PFOA Compounds, Water  
Associated Lab Samples: 7065379001

METHOD BLANK: 2600714      Matrix: Water  
Associated Lab Samples: 7065379001

| Parameter                    | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|------------------------------|-------|--------------|-----------------|----------------|------------|
| Perfluorobutanesulfonic acid | ug/L  | <0.090       | 0.090           | 09/26/18 11:05 |            |
| Perfluoroheptanoic acid      | ug/L  | <0.010       | 0.010           | 09/26/18 11:05 |            |
| Perfluorohexanesulfonic acid | ug/L  | <0.030       | 0.030           | 09/26/18 11:05 |            |
| Perfluorononanoic acid       | ug/L  | <0.020       | 0.020           | 09/26/18 11:05 |            |
| Perfluorooctanesulfonic acid | ug/L  | <0.040       | 0.040           | 09/26/18 11:05 |            |
| Perfluorooctanoic acid       | ug/L  | <0.0020      | 0.0020          | 09/26/18 11:05 |            |
| 13C2-PFDA (S)                | %     | 116          | 70-130          | 09/26/18 11:05 |            |
| 13C2-PFHxA (S)               | %     | 117          | 70-130          | 09/26/18 11:05 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2600715

| Parameter                    | Units | 2600905     |            |             |           |            |              |     | Max RPD | Qualifiers |
|------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
|                              |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD |         |            |
| Perfluorobutanesulfonic acid | ug/L  | .9          | 0.86       | 0.96        | 96        | 107        | 50-150       | 11  | 30      |            |
| Perfluoroheptanoic acid      | ug/L  | .1          | 0.091      | 0.10        | 91        | 101        | 50-150       | 10  | 30      |            |
| Perfluorohexanesulfonic acid | ug/L  | .3          | 0.29       | 0.34        | 97        | 112        | 50-150       | 15  | 30      |            |
| Perfluorononanoic acid       | ug/L  | .2          | 0.18       | 0.19        | 88        | 94         | 50-150       | 7   | 30      |            |
| Perfluorooctanesulfonic acid | ug/L  | .4          | 0.39       | 0.44        | 98        | 111        | 50-150       | 13  | 30      |            |
| Perfluorooctanoic acid       | ug/L  | .2          | 0.19       | 0.20        | 94        | 98         | 50-150       | 4   | 30      |            |
| 13C2-PFDA (S)                | %     |             |            |             | 116       | 123        | 70-130       |     |         |            |
| 13C2-PFHxA (S)               | %     |             |            |             | 103       | 114        | 70-130       |     |         |            |

LABORATORY CONTROL SAMPLE: 2600716

| Parameter                    | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Perfluorobutanesulfonic acid | ug/L  | .09         | <0.090     | 99        | 50-150       |            |
| Perfluoroheptanoic acid      | ug/L  | .01         | <0.010     | 96        | 50-150       |            |
| Perfluorohexanesulfonic acid | ug/L  | .03         | 0.031      | 104       | 50-150       |            |
| Perfluorononanoic acid       | ug/L  | .02         | <0.020     | 100       | 50-150       |            |
| Perfluorooctanesulfonic acid | ug/L  | .04         | 0.043      | 108       | 50-150       |            |
| Perfluorooctanoic acid       | ug/L  | .02         | 0.018      | 91        | 50-150       |            |
| 13C2-PFDA (S)                | %     |             |            | 118       | 70-130       |            |
| 13C2-PFHxA (S)               | %     |             |            | 107       | 70-130       |            |

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: 537 9/19

Pace Project No.: 7065379

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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.

### LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

### BATCH QUALIFIERS

Batch: 480613

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1j A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 537 9/19

Pace Project No.: 7065379

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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> |
|---------------|-----------------------|------------------------|-----------------|--------------------------|-------------------------|
| 7065379001    | REILLY 16 NORWOOD RD. | EPA 537                | 480393          | EPA 537                  | 480613                  |

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WO#: 7065379



575 Broad Hollow Rd., Melville, NY 11747  
(631) 694-3040 Fax: (631) 420-8436

# Sample Request Form PUBLIC WATER SUPPLIER

WELL OFF LINE

WELL RUN TO SYSTEM

Date: 9-19-18

Collected By: W Booth

Accepted By: JG 1443

Cooler Temp: 1.6 °C

**Client Info:**

Name or Code: HAMPTON BAYS WATER DISTRICT  
PO BOX 1013  
Address: 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. |
|----------------------|-------------|-----------------------|--------|----------------|---------|--------------------------------|-------------|----------|---------|
| 7:50<br>9-19-18      | GW          | WELL 1-3              | RW     | -              | RO      |                                | 6.71/14.2°C | SOC'S    | 001     |
| 8:50<br>9-19-18      | GW          | WELL 3-1              | RW     | -              | RO      |                                | 6.75/13.7°C | SOC'S    | 002     |
| 9:05<br>9-19-18      | GW          | WELL 3-3              | RW     | -              | RO      |                                | 6.58/13.9°C | SOC'S    | 003     |
| 9:30<br>9-19-18      | GW          | WELL 4-1              | RW     | -              | RO      |                                | 6.63/13.8°C | SOC'S    |         |
| 9:45<br>9-19-18      | GW          | WELL 4-2              | RW     | -              | RO      |                                | 6.48/14.4°C | SOC'S    |         |
| 10:15<br>9-19-18     | PW          | Reim<br>16 Norwood Rd | D      | -              | S       |                                |             | PFC'S    | 001     |
|                      |             |                       |        |                |         |                                |             |          |         |
|                      |             |                       |        |                |         |                                |             |          |         |
|                      |             |                       |        |                |         |                                |             |          |         |
|                      |             |                       |        |                |         |                                |             |          |         |
|                      |             |                       |        |                |         |                                |             |          |         |



# Sample Condition Upon Receipt

Client Name: \_\_\_\_\_

Project: \_\_\_\_\_

**WO#: 7065379**

PM: SWM Due Date: 09/28/18  
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): 1.0

Cooler Temperature Corrected (°C): 1.4

Temp should be above freezing to 6.0°C

USDA Regulated Soil ( N/A, water sample)

Date and Initials of person examining contents: 9/19 NL

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 type="checkbox"/> Yes <input checked="" 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   | 10.  |  |  |
| 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 <u>WT</u> OIL  |  |  |  |
| All containers needing preservation have been checked <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 #   | 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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.  |  |  |
| KI starch test strips Lot #  | Positive for Res. Chlorine? Y N  |  |  |
| 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: \_\_\_\_\_