

Date of Request: 13-FEB-2020  
 Created By: PARRISH\_J On: 13-FEB-2020  
 Modified By: SWANSON\_C On: 26-FEB-2020  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: Nassau East Boat 2020

**Send Coolers To:**

Phone: 904-256-1693  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

Program Module Number:  
 Priority: 3  
 Event Status: W  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 25-FEB-2020  
 Biology Request Reviewed By: SWANSON\_C On: 26-FEB-2020  
 Sampling Kit Required: YES Ship on: 06-MAR-2020  
 Sampling Kit Shipped:  
 Sampling Kit Packed By:  
 Preservatives Needed: NO  
 Date to Receive Samples: 16-MAR-2020  
 Received By:

**Send Final Report To:**

8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

Report Type: Final Only  
 FTP Data: NO  
 QC Report: YES  
 Date Log: NO  
 Authorization Log: NO

Comments: Group A: (surf. salt) Nutrients, Metals, Tracer, Bacteria  
 Group B: (surf.-salt) Nutrients, Metals, Bacteria  
 Group C: (Blank) Nutrients, metals, Tracer

NE-ALS-ENQ

Packing Notes:  
 None

**Bottle Group A (Water) With 2 Samples:**

|                             |                      |                                                                                                              |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L           | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                   |
| Total Alkalinity            |                      |                                                                                                              |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| Turbidity                   |                      |                                                                                                              |
| W-BR-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide in aqueous matrices                                                             |
| Bromide                     |                      |                                                                                                              |
| W-F                         | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| Fluoride                    |                      |                                                                                                              |
| W-TSS                       | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| TSS                         |                      |                                                                                                              |
| Bottle Type: BP-1L          | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Chlorophyll-a, Corrected    |                      |                                                                                                              |
| Chlorophyll-a, Uncorrected  |                      |                                                                                                              |
| Phaeophytin-a               |                      |                                                                                                              |
| Bottle Type: P-250ML-WI-THI | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| NE-ALS-ENQ                  | Template: DEFAULT    | (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville                                           |
| ENTEROCOCCI-ENTEROLERT      |                      |                                                                                                              |
| Bottle Type: BG-500ML       | Number of Bottles: 2 | Preserved With: ICE                                                                                          |

**Bottle Group A (Water) With 2 Samples:**

|                                                                                                                                                                                                                                                                                                                                                                             |                      |                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: BG-500ML                                                                                                                                                                                                                                                                                                                                                       | Number of Bottles: 2 | Preserved With: ICE                                                                                                                            |
| W-E8321-DI                                                                                                                                                                                                                                                                                                                                                                  | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| *Acesulfame K<br>*AMPA<br>*Endothall<br>*Glufosinate<br>*Glyphosate<br>*Sucralose                                                                                                                                                                                                                                                                                           |                      |                                                                                                                                                |
| W-E8321-MS                                                                                                                                                                                                                                                                                                                                                                  | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| *Acetaminophen<br>*Acetamiprid<br>*Afidopyropen<br>*Benzovindiflupyr<br>*Carbamazepine<br>*Clothianidin<br>*Dinotefuran<br>*Fluridone<br>*Hydrocodone<br>*Ibuprofen<br>*Imazapyr<br>*Mandestrobin<br>*Naproxen<br>*Primidone<br>*Pyraclostrobin<br>*Thiamethoxam<br>*Tolfenpyrad<br>*Triclopyr<br>2,4-D<br>Bentazon<br>Diuron<br>Fenuron<br>Imidacloprid<br>Linuron<br>MCPP |                      |                                                                                                                                                |
| Bottle Type: P-500ML                                                                                                                                                                                                                                                                                                                                                        | Number of Bottles: 2 | Preserved With: HNO3                                                                                                                           |
| W-ICP                                                                                                                                                                                                                                                                                                                                                                       | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron<br>Manganese<br>Zinc                                                                                                                                                                                                                                                                                                                                                   |                      |                                                                                                                                                |
| W-ICPMS                                                                                                                                                                                                                                                                                                                                                                     | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum<br>Antimony<br>Arsenic<br>Cadmium<br>Chromium<br>Copper<br>Lead<br>Nickel<br>Selenium<br>Silver<br>Thallium                                                                                                                                                                                                                                                        |                      |                                                                                                                                                |
| Bottle Type: P-500ML                                                                                                                                                                                                                                                                                                                                                        | Number of Bottles: 2 | Preserved With: ICE And H2SO4                                                                                                                  |
| W-NH3                                                                                                                                                                                                                                                                                                                                                                       | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                                     |
| Ammonia-N                                                                                                                                                                                                                                                                                                                                                                   |                      |                                                                                                                                                |
| W-NO2NO3                                                                                                                                                                                                                                                                                                                                                                    | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |
| NO2NO3-N                                                                                                                                                                                                                                                                                                                                                                    |                      |                                                                                                                                                |
| W-S-A-TP                                                                                                                                                                                                                                                                                                                                                                    | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                                            |
| Total-P                                                                                                                                                                                                                                                                                                                                                                     |                      |                                                                                                                                                |
| W-TKN                                                                                                                                                                                                                                                                                                                                                                       | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                                               |

**Bottle Group A (Water) With 2 Samples:**

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 2 | Preserved With: ICE And H2SO4                                                            |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| Kjeldahl Nitrogen    |                      |                                                                                          |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Organic Carbon       |                      |                                                                                          |
| Bottle Type: P-125ML | Number of Bottles: 2 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |
| O-Phosphate-P        |                      |                                                                                          |

**Bottle Group B (Water) With 3 Samples:**

|                             |                      |                                                                                                                                                |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WI-THI | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| NE-ALS-ENQ                  | Template: DEFAULT    | (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville                                                                             |
| ENTEROCOCCI-ENTEROLERT      |                      |                                                                                                                                                |
| Bottle Type: P-500ML        | Number of Bottles: 3 | Preserved With: HNO3                                                                                                                           |
| W-ICP                       | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron                        |                      |                                                                                                                                                |
| Manganese                   |                      |                                                                                                                                                |
| Zinc                        |                      |                                                                                                                                                |
| W-ICPMS                     | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum                    |                      |                                                                                                                                                |
| Antimony                    |                      |                                                                                                                                                |
| Arsenic                     |                      |                                                                                                                                                |
| Cadmium                     |                      |                                                                                                                                                |
| Chromium                    |                      |                                                                                                                                                |
| Copper                      |                      |                                                                                                                                                |
| Lead                        |                      |                                                                                                                                                |
| Nickel                      |                      |                                                                                                                                                |
| Selenium                    |                      |                                                                                                                                                |
| Silver                      |                      |                                                                                                                                                |
| Thallium                    |                      |                                                                                                                                                |
| Bottle Type: P-500ML        | Number of Bottles: 3 | Preserved With: ICE And H2SO4                                                                                                                  |
| W-NH3                       | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                                     |
| Ammonia-N                   |                      |                                                                                                                                                |
| W-NO2NO3                    | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |
| NO2NO3-N                    |                      |                                                                                                                                                |
| W-S-A-TP                    | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                                            |
| Total-P                     |                      |                                                                                                                                                |
| W-TKN                       | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                                               |
| Kjeldahl Nitrogen           |                      |                                                                                                                                                |
| W-TOC                       | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                                                               |
| Organic Carbon              |                      |                                                                                                                                                |
| Bottle Type: P-125ML        | Number of Bottles: 3 | Preserved With: FILTER-ICE                                                                                                                     |
| W-PO4-F                     | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                                       |
| O-Phosphate-P               |                      |                                                                                                                                                |
| Bottle Type: P-1L           | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                                                  |
| Total Alkalinity            |                      |                                                                                                                                                |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| Turbidity                   |                      |                                                                                                                                                |
| W-BR-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide in aqueous matrices                                                                                               |
| Bromide                     |                      |                                                                                                                                                |
| W-F                         | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                         |
| Fluoride                    |                      |                                                                                                                                                |
| W-TSS                       | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                                |
| TSS                         |                      |                                                                                                                                                |
| Bottle Type: BP-1L          | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W                  | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                   |

**Bottle Group B (Water) With 3 Samples:**

|                            |                      |                                                                                                              |
|----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L         | Number of Bottles: 3 | Preserved With: ICE                                                                                          |
| CHLSUITE-W                 | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Chlorophyll-a, Corrected   |                      |                                                                                                              |
| Chlorophyll-a, Uncorrected |                      |                                                                                                              |
| Phaeophytin-a              |                      |                                                                                                              |

**Bottle Group C (Water) With 1 Samples:**

|                   |                      |                                                                                                        |
|-------------------|----------------------|--------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L | Number of Bottles: 1 | Preserved With: ICE                                                                                    |
| ALKALINITY        | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                          |
| Total Alkalinity  |                      |                                                                                                        |
| W-BR-IC           | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide in aqueous matrices                                                       |
| Bromide           |                      |                                                                                                        |
| W-F               | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| Fluoride          |                      |                                                                                                        |
| W-TSS             | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample        |
| TSS               |                      |                                                                                                        |

|                       |                      |                                                                                         |
|-----------------------|----------------------|-----------------------------------------------------------------------------------------|
| Bottle Type: BG-500ML | Number of Bottles: 1 | Preserved With: ICE                                                                     |
| W-E8321-DI            | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS |
| *Acesulfame K         |                      |                                                                                         |
| *AMPA                 |                      |                                                                                         |
| *Endothall            |                      |                                                                                         |
| *Glufosinate          |                      |                                                                                         |
| *Glyphosate           |                      |                                                                                         |
| *Sucralose            |                      |                                                                                         |
| W-E8321-MS            | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS |
| *Acetaminophen        |                      |                                                                                         |
| *Acetamiprid          |                      |                                                                                         |
| *Afidopyropen         |                      |                                                                                         |
| *Benzovindiflupyr     |                      |                                                                                         |
| *Carbamazepine        |                      |                                                                                         |
| *Clothianidin         |                      |                                                                                         |
| *Dinotefuran          |                      |                                                                                         |
| *Fluridone            |                      |                                                                                         |
| *Hydrocodone          |                      |                                                                                         |
| *Ibuprofen            |                      |                                                                                         |
| *Imazapyr             |                      |                                                                                         |
| *Mandestrobin         |                      |                                                                                         |
| *Naproxen             |                      |                                                                                         |
| *Primidone            |                      |                                                                                         |
| *Pyraclostrobin       |                      |                                                                                         |
| *Thiamethoxam         |                      |                                                                                         |
| *Tolfenpyrad          |                      |                                                                                         |
| *Triclopyr            |                      |                                                                                         |
| 2,4-D                 |                      |                                                                                         |
| Bentazon              |                      |                                                                                         |
| Diuron                |                      |                                                                                         |
| Fenuron               |                      |                                                                                         |
| Imidacloprid          |                      |                                                                                         |
| Linuron               |                      |                                                                                         |
| MCP                   |                      |                                                                                         |

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                | Template: S-METALS   | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Iron                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |

**Bottle Group C (Water) With 1 Samples:**

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                        |
| W-ICPMS              | Template:            | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects |
| Antimony             |                      |                                                                                                                             |
| Arsenic              |                      |                                                                                                                             |
| Cadmium              |                      |                                                                                                                             |
| Chromium             |                      |                                                                                                                             |
| Copper               |                      |                                                                                                                             |
| Lead                 |                      |                                                                                                                             |
| Nickel               |                      |                                                                                                                             |
| Selenium             |                      |                                                                                                                             |
| Silver               |                      |                                                                                                                             |
| Thallium             |                      |                                                                                                                             |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                                                               |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                  |
| Ammonia-N            |                      |                                                                                                                             |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                          |
| NO2NO3-N             |                      |                                                                                                                             |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                                                         |
| Total-P              |                      |                                                                                                                             |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                                                            |
| Kjeldahl Nitrogen    |                      |                                                                                                                             |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                                                            |
| Organic Carbon       |                      |                                                                                                                             |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                                                  |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L                                    |
| O-Phosphate-P        |                      |                                                                                                                             |

\* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.