

Date of Request: 25-OCT-2019  
 Created By: PARRISH\_J On: 25-OCT-2019  
 Modified By: WATTS\_J On: 03-DEC-2019  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: LSJR Palatka

**Send Coolers To:**

Phone: 904-256-1700  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish

Program Module Number:  
 Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 03-DEC-2019  
 Biology Request Reviewed By: WATTS\_J On: 03-DEC-2019  
 Sampling Kit Required: NO Ship on:  
 Sampling Kit Shipped: YES On: 18-NOV-2019  
 Sampling Kit Packed By: KLUG\_K  
 Preservatives Needed: NO  
 Date to Receive Samples: 02-DEC-2019  
 Received By: KLUG\_K On: 05-DEC-2019

**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-Fresh) Nutrients, Metals, Bacteria  
 Group B(Surf.-Fresh), Nutrients, Metals, Bacteria, Tracers  
 Group C(Blank) Nutrients, Metals

NE-ALS-ECQ  
 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 CaCO3/L                                                |
| Total Alkalinity           |                      |                                                                                                              |
| TURBIDITY                  | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| Turbidity                  |                      |                                                                                                              |
| W-CL-IC                    | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| Chloride                   |                      |                                                                                                              |
| W-COLOR                    | Template: DEFAULT    | (SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)                              |
| Color (true)               |                      |                                                                                                              |
| W-F                        | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| Fluoride                   |                      |                                                                                                              |
| W-SO4-IC                   | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| Sulfate                    |                      |                                                                                                              |
| W-TDS                      | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                                  |
| TDS                        |                      |                                                                                                              |
| 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 Group A (Water) With 2 Samples:**

|                              |                      |                                                                                                                                                |
|------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-120ML-WC-THI  | Number of Bottles: 4 | Preserved With: ICE                                                                                                                            |
| NE-ALS-ECQ                   | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert/QT by ALS in Jacksonville                                                                          |
| Escherichia Coli-Quanti-Tray |                      |                                                                                                                                                |
| Bottle Type: P-500ML         | Number of Bottles: 2 | Preserved With: HNO3                                                                                                                           |
| W-ICP                        | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Barium                       |                      |                                                                                                                                                |
| Calcium                      |                      |                                                                                                                                                |
| Iron                         |                      |                                                                                                                                                |
| Magnesium                    |                      |                                                                                                                                                |
| Potassium                    |                      |                                                                                                                                                |
| Sodium                       |                      |                                                                                                                                                |
| 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                    |
| *Boron                       |                      |                                                                                                                                                |
| Aluminum                     |                      |                                                                                                                                                |
| Antimony                     |                      |                                                                                                                                                |
| Arsenic                      |                      |                                                                                                                                                |
| Cadmium                      |                      |                                                                                                                                                |
| Chromium                     |                      |                                                                                                                                                |
| Copper                       |                      |                                                                                                                                                |
| Lead                         |                      |                                                                                                                                                |
| Nickel                       |                      |                                                                                                                                                |
| Selenium                     |                      |                                                                                                                                                |
| Silver                       |                      |                                                                                                                                                |
| 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                                                                               |
| 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 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         |                      |                                                                                         |
| *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            |                      |                                                                                         |

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

Bottle Type: BG-500ML      Number of Bottles: 2      Preserved With: ICE  
 W-E8321-MS      Template: DEFAULT      (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS  
 \*Imazapyr  
 \*Mandestrobin  
 \*Naproxen  
 \*Primidone  
 \*Pyraclostrobin  
 \*Thiamethoxam  
 \*Tolfenpyrad  
 \*Triclopyr  
 2,4-D  
 Bentazon  
 Diuron  
 Fenuron  
 Imidacloprid  
 Linuron  
 MCPP

Bottle Type: P-500ML      Number of Bottles: 2      Preserved With: HNO3  
 W-ICP      Template:      (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects  
 Barium  
 Calcium  
 Iron  
 Magnesium  
 Potassium  
 Sodium  
 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  
 \*Boron  
 Aluminum  
 Antimony  
 Arsenic  
 Cadmium  
 Chromium  
 Copper  
 Lead  
 Nickel  
 Selenium  
 Silver  
 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  
 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 Type: P-1L      Number of Bottles: 2      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-CL-IC      Template: DEFAULT      (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices

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

|                                                                                       |                      |                                                                                                              |
|---------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                                                                     | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| W-CL-IC<br>Chloride                                                                   | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR<br>Color (true)                                                               | Template: DEFAULT    | (SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)                              |
| W-F<br>Fluoride                                                                       | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)       |
| W-SO4-IC<br>Sulfate                                                                   | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| W-TDS<br>TDS                                                                          | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                                  |
| W-TSS<br>TSS                                                                          | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| Bottle Type: BP-1L                                                                    | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| CHLSUITE-W<br>Chlorophyll-a, Corrected<br>Chlorophyll-a, Uncorrected<br>Phaeophytin-a | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |

|                                            |                      |                                                                       |
|--------------------------------------------|----------------------|-----------------------------------------------------------------------|
| Bottle Type: P-120ML-WC-THI                | Number of Bottles: 4 | Preserved With: ICE                                                   |
| NE-ALS-ECQ<br>Escherichia Coli-Quanti-Tray | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert/QT by ALS in Jacksonville |

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

|                                                                                                                                                     |                      |                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                                                                                                                                   | Number of Bottles: 1 | Preserved With: ICE                                                                                    |
| ALKALINITY<br>Total Alkalinity                                                                                                                      | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                          |
| TURBIDITY<br>Turbidity                                                                                                                              | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                     |
| W-CL-IC<br>Chloride                                                                                                                                 | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                      |
| W-COLOR<br>Color (true)                                                                                                                             | Template: DEFAULT    | (SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)                        |
| W-F<br>Fluoride                                                                                                                                     | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| W-SO4-IC<br>Sulfate                                                                                                                                 | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                       |
| W-TDS<br>TDS                                                                                                                                        | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                            |
| W-TSS<br>TSS                                                                                                                                        | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample        |
| Bottle Type: BG-500ML                                                                                                                               | Number of Bottles: 1 | Preserved With: ICE                                                                                    |
| W-E8321-DI<br>*Acesulfame K<br>*AMPA<br>*Endothall<br>*Glufosinate<br>*Glyphosate<br>*Sucralose                                                     | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                |
| W-E8321-MS<br>*Acetaminophen<br>*Acetamiprid<br>*Afidopyropen<br>*Benzovindiflupyr<br>*Carbamazepine<br>*Clothianidin<br>*Dinotefuran<br>*Fluridone | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                |

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

|                       |                      |                                                                                                                                                |
|-----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: BG-500ML | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| W-E8321-MS            | Template: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| *Hydrocodone          |                      |                                                                                                                                                |
| *Ibuprofen            |                      |                                                                                                                                                |
| *Imazapyr             |                      |                                                                                                                                                |
| *Mandestrobin         |                      |                                                                                                                                                |
| *Naproxen             |                      |                                                                                                                                                |
| *Primidone            |                      |                                                                                                                                                |
| *Pyraclostrobin       |                      |                                                                                                                                                |
| *Thiamethoxam         |                      |                                                                                                                                                |
| *Tolfenpyrad          |                      |                                                                                                                                                |
| *Triclopyr            |                      |                                                                                                                                                |
| 2,4-D                 |                      |                                                                                                                                                |
| Bentazon              |                      |                                                                                                                                                |
| Diuron                |                      |                                                                                                                                                |
| Fenuron               |                      |                                                                                                                                                |
| Imidacloprid          |                      |                                                                                                                                                |
| Linuron               |                      |                                                                                                                                                |
| MCPP                  |                      |                                                                                                                                                |
| Bottle Type: P-500ML  | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-ICP                 | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Barium                |                      |                                                                                                                                                |
| Calcium               |                      |                                                                                                                                                |
| Iron                  |                      |                                                                                                                                                |
| Magnesium             |                      |                                                                                                                                                |
| Potassium             |                      |                                                                                                                                                |
| Sodium                |                      |                                                                                                                                                |
| 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                    |
| *Boron                |                      |                                                                                                                                                |
| Aluminum              |                      |                                                                                                                                                |
| 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.