

Date of Request: 05-AUG-2019  
 Created By: PARRISH\_J On: 05-AUG-2019  
 Modified By: JASROTIA\_P On: 27-AUG-2019  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Sampling Event: SCI Puncheon, and Miller Marine

**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: 23-AUG-2019  
 Biology Request Reviewed By: JASROTIA\_P On: 27-AUG-2019  
 Sampling Kit Required: YES Ship on: 09-SEP-2019  
 Sampling Kit Shipped: YES On: 09-SEP-2019  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 16-SEP-2019  
 Received By: SHAIK\_A On: 18-SEP-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: (Fresh)Nutrients, Metals, Tracers, Q-PSNP-TQ, Bacteria  
 Group B: SCI, Algae\_ID  
 Group C:(Salt)Nutrients, Markers, Tracers, Bacteria

NE-ALS-ECQ  
 NE-ALS-ENQ  
 Packing Notes:  
 none

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

|                          |                      |                                                                                                              |
|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L        | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY               | Template: DEFAULT    | (SM 2320 B-97) 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) True Color measured at 450 nm                                                                    |
| Color (true)             |                      |                                                                                                              |
| W-F                      | Template: DEFAULT    | (SM 4500 F-C-97) 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-97) Total Dissolved Solids in aqueous matrices                                                    |
| TDS                      |                      |                                                                                                              |
| W-TSS                    | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                |
| TSS                      |                      |                                                                                                              |
| Bottle Type: BP-1L       | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W               | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Chlorophyll-a, Corrected |                      |                                                                                                              |

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

|                              |                      |                                                                                                                                                |
|------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W                   | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                   |
| Chlorophyll-a, Uncorrected   |                      |                                                                                                                                                |
| Phaeophytin-a                |                      |                                                                                                                                                |
| Bottle Type: P-250ML-WI-THI  | Number of Bottles: 1 | 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: 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                      |                      |                                                                                                                                                |
| 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                       |                      |                                                                                                                                                |

**Bottle Group A (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 |
| 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-00) 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        |                      |                                                                                                                             |
| Bottle Type: BG-1L   | Number of Bottles: 4 | Preserved With: ICE                                                                                                         |
| W-PSNP-TQ            | Template: DEFAULT    | (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                          |
| *Dimethenamid        |                      |                                                                                                                             |
| *Dithiopyr           |                      |                                                                                                                             |
| *Fipronil Desulfinyl |                      |                                                                                                                             |
| *Oxadiazon           |                      |                                                                                                                             |
| *Prodiamine          |                      |                                                                                                                             |
| *Tebuconazole        |                      |                                                                                                                             |
| Acetochlor           |                      |                                                                                                                             |
| Alachlor             |                      |                                                                                                                             |
| Ametryn              |                      |                                                                                                                             |
| Atrazine             |                      |                                                                                                                             |
| Atrazine Desethyl    |                      |                                                                                                                             |
| Azinphos Methyl      |                      |                                                                                                                             |
| Bromacil             |                      |                                                                                                                             |
| Butylate             |                      |                                                                                                                             |
| Chlorpyrifos Ethyl   |                      |                                                                                                                             |
| Chlorpyrifos Methyl  |                      |                                                                                                                             |
| Cyanazine            |                      |                                                                                                                             |
| Demeton              |                      |                                                                                                                             |
| Diazinon             |                      |                                                                                                                             |
| Disulfoton           |                      |                                                                                                                             |
| EPTC                 |                      |                                                                                                                             |
| Ethion               |                      |                                                                                                                             |
| Ethoprop             |                      |                                                                                                                             |
| Fenamiphos           |                      |                                                                                                                             |
| Fipronil             |                      |                                                                                                                             |
| Fipronil Sulfide     |                      |                                                                                                                             |
| Fipronil Sulfone     |                      |                                                                                                                             |
| Fonofos              |                      |                                                                                                                             |
| Hexazinone           |                      |                                                                                                                             |
| Malathion            |                      |                                                                                                                             |
| Metalaxyl            |                      |                                                                                                                             |
| Metolachlor          |                      |                                                                                                                             |
| Metribuzin           |                      |                                                                                                                             |
| Mevinphos            |                      |                                                                                                                             |
| Molinate             |                      |                                                                                                                             |
| Norflurazon          |                      |                                                                                                                             |
| Parathion Ethyl      |                      |                                                                                                                             |

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

Bottle Type: BG-1L      Number of Bottles: 4      Preserved With: ICE  
 W-PSNP-TQ      Template: DEFAULT      (EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS  
 Parathion Methyl  
 Pendimethalin  
 Phorate  
 Prometon  
 Prometryn  
 Simazine  
 Terbufos  
 Terbutylazine

**Bottle Group B (Biological) With 1 Samples:**

Bottle Type: PJ-2L      Number of Bottles: 2      Preserved With: Formalin  
 MI-FW-QLDC      Template: DEFAULT      (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.  
 \*Macroinvert-FW-Qual-DipnetX20-#Taxa-Rep2  
 \*Stream Condition Index (SCI)

Bottle Type: PT-50ML      Number of Bottles: 1      Preserved With: ICE  
 ALGAL\_ID      Template: DEFAULT      (SOP-AB05) Qualitative assessment of algal taxa present without counts  
 \*Dominant sample taxon

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

Bottle Type: P-1L      Number of Bottles: 1      Preserved With: ICE  
 ALKALINITY      Template: DEFAULT      (SM 2320 B-97) 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) Bromide in aqueous matrices  
 Bromide  
 W-F      Template: DEFAULT      (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)  
 Fluoride  
 W-TSS      Template: DEFAULT      (SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample  
 TSS

Bottle Type: BP-1L      Number of Bottles: 1      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: 1      Preserved With: ICE  
 NE-ALS-ENQ      Template: DEFAULT      (ASTM D650399) Enterococci by Enterolert/QT by ALS in Jacksonville  
 ENTEROCOCCI-ENTEROLERT

Bottle Type: QPCR-P-500ML      Number of Bottles: 1      Preserved With: ICE  
 PCR-HF183      Template: DEFAULT      (SOP-PCR-1.0) Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction  
 \*HF183-qPCR

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

**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  |                               |
| *Fluridone            |                   |                                                                                          |                               |
| *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: 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-00) 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.