

Turkey Creek

## Central Laboratory Submittal Form

last revised Nov 10, 2015

Customer: CEN-DIST

Requester: Michael Linger

Field Report Prepared By: Mike Linger

Project ID: SMP

Collected By: Mike Linger, Mike Dennen

Sampling Agency: FDEP CEROC

|                                                                         |                                                                          |                                                                           |                                                            |                     |                                                                            |                                     |  |                                    |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------|---------------------|----------------------------------------------------------------------------|-------------------------------------|--|------------------------------------|
| Location<br>Turkey Creek @ US 1 Bridge                                  |                                                                          | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 4/27/16 Time 12:30 |                     | Eastern<br>Central                                                         | Composite end<br>Date Time          |  | Bottle Group(s)<br>(See pg 2)<br>A |
| Field ID<br>G5 CE 0054                                                  |                                                                          | Matrix (type, e.g., Salt, Fresh, etc)<br>Salt                             |                                                            | Diss. Oxygen<br>6.6 | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |  |                                    |
| STORET #<br>27010199                                                    |                                                                          | Temp (C)<br>27.6                                                          | pH<br>7.7                                                  | Sample Depth<br>0.3 | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 24,500 |  |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)                                                            |                                                            | Comments            |                                                                            |                                     |  |                                    |
| Location<br>Turkey Creek at railroad trestle                            |                                                                          | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 4/27/16 Time 12:42 |                     | Eastern<br>Central                                                         | Composite end<br>Date Time          |  | Bottle Group(s)<br>A               |
| Field ID<br>G5 CE 0055                                                  |                                                                          | Matrix (type, e.g., Salt, Fresh, etc)<br>Salt                             |                                                            | Diss. Oxygen<br>6.0 | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |  |                                    |
| STORET #<br>27010514                                                    |                                                                          | Temp (C)<br>28.0                                                          | pH<br>7.7                                                  | Sample Depth<br>0.3 | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 17,873 |  |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)                                                            |                                                            | Comments            |                                                                            |                                     |  |                                    |
| Location<br>Turkey Creek @ S of Elliot St.                              |                                                                          | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 4/27/16 Time 12:52 |                     | Eastern<br>Central                                                         | Composite end<br>Date Time          |  | Bottle Group(s)<br>A               |
| Field ID<br>G5 CE 0056                                                  |                                                                          | Matrix (type, e.g., Salt, Fresh, etc)<br>Salt                             |                                                            | Diss. Oxygen<br>7.2 | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat | Total Res. Chlorine<br>(mg/L)       |  |                                    |
| STORET #<br>G5 CE 0056                                                  |                                                                          | Temp (C)<br>28.3                                                          | pH<br>7.8                                                  | Sample Depth<br>0.3 | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m       | Sp. Conductance<br>(umho/cm) 8,454  |  |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)                                                            |                                                            | Comments            |                                                                            |                                     |  |                                    |
| Location                                                                |                                                                          | <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab            | Collection (comp begin or grab)<br>Date Time               |                     | Eastern<br>Central                                                         | Composite end<br>Date Time          |  | Bottle Group(s)                    |
| Field ID                                                                |                                                                          | Matrix (type, e.g., Salt, Fresh, etc)                                     |                                                            | Diss. Oxygen        | <input type="checkbox"/> mg/L<br><input type="checkbox"/> % sat            | Total Res. Chlorine<br>(mg/L)       |  |                                    |
| STORET #                                                                |                                                                          | Temp (C)                                                                  | pH                                                         | Sample Depth        | <input type="checkbox"/> ft<br><input type="checkbox"/> m                  | Sp. Conductance<br>(umho/cm)        |  |                                    |
| Latitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude<br><input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt)                                                            |                                                            | Comments            |                                                                            |                                     |  |                                    |

|                         |                            |                          |              |           |                  |           |                   |                            |
|-------------------------|----------------------------|--------------------------|--------------|-----------|------------------|-----------|-------------------|----------------------------|
| Relinquished By:<br>MKL | Date/Time<br>4/27/16 15:30 | Shipping Method<br>Fedex | Received By: | Date/Time | Relinquished By: | Date/Time | Received By:<br>a | Date/Time<br>4/28/16 10:24 |
|-------------------------|----------------------------|--------------------------|--------------|-----------|------------------|-----------|-------------------|----------------------------|

One cooler

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|          |                   |                 |                   |                                     |   |
|----------|-------------------|-----------------|-------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-1L | # of Bottles: 3 | Preservative: ICE | Enter Number of Bottles Sent to Lab | 3 |
|----------|-------------------|-----------------|-------------------|-------------------------------------|---|

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ALKALINITY  
TURBIDITY  
W-F  
W-TSS

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|          |                   |                 |                   |                                     |   |
|----------|-------------------|-----------------|-------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-1L | # of Bottles: 3 | Preservative: ICE | Enter Number of Bottles Sent to Lab | 3 |
|----------|-------------------|-----------------|-------------------|-------------------------------------|---|

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BOD-UNIN

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|          |                    |                 |                   |                                     |   |
|----------|--------------------|-----------------|-------------------|-------------------------------------|---|
| Group: A | Bottle Type: BP-1L | # of Bottles: 3 | Preservative: ICE | Enter Number of Bottles Sent to Lab | 3 |
|----------|--------------------|-----------------|-------------------|-------------------------------------|---|

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CHLSUITE-W

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|          |                      |                 |                    |                                     |   |
|----------|----------------------|-----------------|--------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-500ML | # of Bottles: 3 | Preservative: HNO3 | Enter Number of Bottles Sent to Lab | 3 |
|----------|----------------------|-----------------|--------------------|-------------------------------------|---|

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W-ICP  
W-ICPMS

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|          |                      |                 |                             |                                     |   |
|----------|----------------------|-----------------|-----------------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-500ML | # of Bottles: 3 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|----------|----------------------|-----------------|-----------------------------|-------------------------------------|---|

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W-NH3  
W-NO2NO3  
W-S-A-TP  
W-TKN  
W-TOC

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|          |                      |                 |                        |                                     |   |
|----------|----------------------|-----------------|------------------------|-------------------------------------|---|
| Group: A | Bottle Type: P-125ML | # of Bottles: 3 | Preservative: ICE-FLTR | Enter Number of Bottles Sent to Lab | 3 |
|----------|----------------------|-----------------|------------------------|-------------------------------------|---|

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W-PO4-F

Date of Request: 17-MAR-2016  
 Created By: LINGER\_M On: 17-MAR-2016  
 Modified By: SWANSON\_C On: 22-MAR-2016  
 Customer: CEN-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Central District  
 Sampling Event: Turkey Creek

**Send Coolers To:**

Phone: 407-897-4180  
 FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Mike Linger

Program Module Number: 1306  
 Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 18-MAR-2016  
 Biology Request Reviewed By: SWANSON\_C On: 22-MAR-2016  
 Sampling Kit Required: YES Ship on: 24-MAR-2016  
 Sampling Kit Shipped: YES On: 24-MAR-2016  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 04-APR-2016  
 Received By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Mike Linger

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

Comments:

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

|                                   |                      |                                                                                                                                                |
|-----------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L                 | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| ALKALINITY                        | Template: DEFAULT    | (SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                                                       |
| TURBIDITY                         | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-F                               | Template: DEFAULT    | (SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                           |
| W-TSS                             | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices                                                                                      |
| Bottle Type: P-1L                 | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| BOD-UNIN                          | Template: DEFAULT    | (SM 5210 B) BOD, NOT nitrogen-inhibited                                                                                                        |
| Bottle Type: BP-1L                | Number of Bottles: 3 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W                        | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry                             |
| Bottle Type: P-500ML              | Number of Bottles: 3 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| 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 |
| Chromium                          |                      |                                                                                                                                                |
| Iron                              |                      |                                                                                                                                                |
| Zinc                              |                      |                                                                                                                                                |
| W-ICPMS                           | Template: PRTY       | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Arsenic                           |                      |                                                                                                                                                |
| Cadmium                           |                      |                                                                                                                                                |
| Copper                            |                      |                                                                                                                                                |
| Lead                              |                      |                                                                                                                                                |
| Nickel                            |                      |                                                                                                                                                |
| Silver                            |                      |                                                                                                                                                |
| Bottle Type: P-500ML              | Number of Bottles: 3 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                                                         |
| W-NH <sub>3</sub>                 | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                                                     |
| W-NO <sub>2</sub> NO <sub>3</sub> | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |

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

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 3 | Preserved With: ICE And H2SO4                                                            |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices                           |
| Bottle Type: P-125ML | Number of Bottles: 3 | Preserved With: ICE-FLTR                                                                 |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

# Log-in Checklist

RQ- 2016-04-04-65

Shipping Method: Fedex

Date/Time of Receipt: 4/28/16 10:24

| Cooler ID | Cooler Temperature* | No. Sample Containers in Cooler | Evidence Tape |    |          |    | Tracking # (fill out only if waybill copy is damaged) |
|-----------|---------------------|---------------------------------|---------------|----|----------|----|-------------------------------------------------------|
|           |                     |                                 | Present?      |    | *Intact? |    |                                                       |
|           |                     |                                 | Yes           | No | Yes      | No |                                                       |
| Red       | 1.9                 | 15                              |               | ✓  |          |    | 8094 7802 7015                                        |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |
|           |                     |                                 |               |    |          |    |                                                       |

\*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

**\*\*Note:** If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

\*\*Chain Of Custody/ Field Sheet(s) Included? Yes ☒ No ☐

## CONTAINER CHECK

\*\*Evidence Tape on Bottles? Yes ☐ No ☒ If yes, is it intact? Yes ☐ No ☐

\*\*Caps on tight? Yes ☒ No ☐ \*\*Containers intact? Yes ☒ No ☐

\*\*Sufficient Sample Volume: Yes ☒ No ☐

## CHLORINE CHECK (Blue dot on container)

| Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required. |     |    |               |     |    |
|------------------------------------------------------------------------------------------------------|-----|----|---------------|-----|----|
| Analysis                                                                                             | Yes | No | Analysis      | Yes | No |
| W-1,4 DIOX                                                                                           |     |    | W-PC-AA-SF    |     |    |
| W-AHERB-AA (-AHB-AA-R)                                                                               |     |    | W-PCL-SQ (-R) |     |    |
| W-BNA (-625, -R)                                                                                     |     |    | W-PDQUAT      |     |    |
| W-CARB-AA (-CAB-AA-R)                                                                                |     |    | W-PESTNP-R    |     |    |
| W-ENDO-AA                                                                                            |     |    | W-PSCL-TQ     |     |    |
| W-GLYPH                                                                                              |     |    | W-PSNP-TQ     |     |    |
| W-NP-AA-SF                                                                                           |     |    | W-PST-CL-R    |     |    |
| W-PAH (-R)                                                                                           |     |    | W-TR-TQ       |     |    |
| W-PCB-R                                                                                              |     |    |               |     |    |

## PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

\*\*Acid Preserved Samples: pH ≤ 2.0? Yes ☒ No ☐ NA ☐ Init: ☒

\*\*W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes ☐ No ☐ NA ☒ Init: ☒

Coolers Unpacked/Checked by: cu Date: 4/28/16

NCRs (Y/N)? N

Event ID: CEN-DIST-2016-04-28-01

NCR #

## Log-in Checklist

### Samples with Incorrect pH Preservation or presence of Chlorine

| Field ID | Bottle Test ID(s) | pH / Cl | Action Taken |
|----------|-------------------|---------|--------------|
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |
|          |                   |         |              |

### Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

| Cooler ID | Field ID | Bottle Test ID(s) |
|-----------|----------|-------------------|
|           |          |                   |
|           |          |                   |
|           |          |                   |
|           |          |                   |
|           |          |                   |

### Bottles Not Intact

| Field ID | Bottle Test ID(s) | Loose Cap | Damaged Cap |    | Damaged Container |    | Evidence Tape Not Intact |
|----------|-------------------|-----------|-------------|----|-------------------|----|--------------------------|
|          |                   |           | CK          | BR | CK                | BR |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |
|          |                   |           |             |    |                   |    |                          |

### Samples with Insufficient Volume for Analyses

| Field ID | Bottle Test ID(s) | Action Taken |
|----------|-------------------|--------------|
|          |                   |              |
|          |                   |              |
|          |                   |              |
|          |                   |              |

## ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes \_\_\_\_\_ No ✓

Date and Time Placed in Freezer \_\_\_\_\_

Were all samples placed in freezer within 48 hours of collection? Yes \_\_\_\_\_ No \_\_\_\_\_

If no, were samples shipped on dry ice? Yes \_\_\_\_\_ No \_\_\_\_\_

#### FOR CLEAN LAB USE ONLY – Methyl Mercury Preservation Check:

Samples Preserved within 48 hours? Yes \_\_\_\_\_ No \_\_\_\_\_

Date and time samples preserved: \_\_\_\_\_

#### Additional Comments: