

SMP-Vero/Sebastian

## Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SE-DIST

Requester: Matt Sewell

Field Report Prepared By: R Brewster

Project ID: SMP

Collected By: RBrewster, MSewell, &amp; J. Pitts

Sampling Agency: 21FLWPB

|                                                        |  |                                                                           |  |                                                             |  |                                                                                 |  |                                        |  |                               |  |
|--------------------------------------------------------|--|---------------------------------------------------------------------------|--|-------------------------------------------------------------|--|---------------------------------------------------------------------------------|--|----------------------------------------|--|-------------------------------|--|
| Location<br>South prong Sebastian River @ Fellsmere Rd |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 8/27/16 Time 10:00  |  | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |  | Composite end<br>Date _____ Time _____ |  | Bottle Group(s)<br>(See pg 2) |  |
| Field ID<br>G4SE0042                                   |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |  | Diss. Oxygen<br>10.4                                        |  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat      |  | Total Res. Chlorine<br>(mg/L) _____    |  | A                             |  |
| STORET #<br>G4SE0042                                   |  | Temp (C)<br>27.0                                                          |  | pH<br>7.5                                                   |  | Sample Depth<br>0.3                                                             |  | Sp. Conductance (umho/cm)<br>2018      |  |                               |  |
| Latitude<br>27.769243                                  |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms    |  | Longitude<br>-80.505574                                     |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms          |  | Salinity (ppt)<br>1.02                 |  | Comments                      |  |
| Location<br>North Canal @ US1                          |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 07/27/16 Time 10:35 |  | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |  | Composite end<br>Date _____ Time _____ |  | Bottle Group(s)               |  |
| Field ID<br>G5SE0043                                   |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |  | Diss. Oxygen<br>10.2                                        |  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat      |  | Total Res. Chlorine<br>(mg/L) _____    |  | B                             |  |
| STORET #<br>G5SE0043                                   |  | Temp (C)<br>27.8                                                          |  | pH<br>7.2                                                   |  | Sample Depth<br>0.1                                                             |  | Sp. Conductance (umho/cm)<br>1013      |  |                               |  |
| Latitude<br>27.692554                                  |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms    |  | Longitude<br>-80.413187                                     |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms          |  | Salinity (ppt)<br>0.5                  |  | Comments                      |  |
| Location<br>Main Canal @ US1                           |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 07/27/16 Time 11:25 |  | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |  | Composite end<br>Date _____ Time _____ |  | Bottle Group(s)               |  |
| Field ID<br>G5SE0045                                   |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |  | Diss. Oxygen<br>4.6                                         |  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat      |  | Total Res. Chlorine<br>(mg/L) _____    |  | A                             |  |
| STORET #<br>G5SE0045                                   |  | Temp (C)<br>29.8                                                          |  | pH<br>7.4                                                   |  | Sample Depth<br>0.3                                                             |  | Sp. Conductance (umho/cm)<br>1447      |  |                               |  |
| Latitude<br>27.649309                                  |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms    |  | Longitude<br>-80.400267                                     |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms          |  | Salinity (ppt)<br>0.72                 |  | Comments                      |  |
| Location<br>South Canal @ US1                          |  | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |  | Collection (comp begin or grab)<br>Date 07/27/16 Time 13:00 |  | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central |  | Composite end<br>Date _____ Time _____ |  | Bottle Group(s)               |  |
| Field ID<br>G5SE0044                                   |  | Matrix (type, e.g., Salt, Fresh, etc)<br>Fresh                            |  | Diss. Oxygen<br>9.2                                         |  | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat      |  | Total Res. Chlorine<br>(mg/L) _____    |  | A                             |  |
| STORET #<br>G5SE0044                                   |  | Temp (C)<br>31.2                                                          |  | pH<br>7.2                                                   |  | Sample Depth<br>0.1                                                             |  | Sp. Conductance (umho/cm)<br>1074      |  |                               |  |
| Latitude<br>27.605317                                  |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms    |  | Longitude<br>-80.382334                                     |  | <input checked="" type="checkbox"/> dd<br><input type="checkbox"/> dms          |  | Salinity (ppt)<br>0.52                 |  | Comments                      |  |

|                             |                             |                          |                                 |                   |                            |
|-----------------------------|-----------------------------|--------------------------|---------------------------------|-------------------|----------------------------|
| Relinquished By:<br>BMS, JP | Date/Time<br>07/27/16 15:20 | Shipping Method<br>FedEx | Number of Coolers Shipped:<br>2 | Received By:<br>u | Date/Time<br>7/28/16 10:24 |
|-----------------------------|-----------------------------|--------------------------|---------------------------------|-------------------|----------------------------|

|          |              |         |                 |               |               |                                     |   |
|----------|--------------|---------|-----------------|---------------|---------------|-------------------------------------|---|
| Group: A | Bottle Type: | P-1L    | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-SO4-IC     |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | BP-1L   | # of Bottles: 3 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 3 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-500ML | # of Bottles: 3 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 3 |
|          | W-NH3        |         |                 |               |               |                                     |   |
|          | W-NO2NO3     |         |                 |               |               |                                     |   |
|          | W-S-A-TP     |         |                 |               |               |                                     |   |
|          | W-TKN        |         |                 |               |               |                                     |   |
|          | W-TOC        |         |                 |               |               |                                     |   |
| Group: A | Bottle Type: | P-125ML | # of Bottles: 3 | Preservative: | ICE-FLTR      | Enter Number of Bottles Sent to Lab | 3 |
|          | W-PO4-F      |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-1L    | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | ALKALINITY   |         |                 |               |               |                                     |   |
|          | TURBIDITY    |         |                 |               |               |                                     |   |
|          | W-CL-IC      |         |                 |               |               |                                     |   |
|          | W-COLOR      |         |                 |               |               |                                     |   |
|          | W-F          |         |                 |               |               |                                     |   |
|          | W-SO4-IC     |         |                 |               |               |                                     |   |
|          | W-TDS        |         |                 |               |               |                                     |   |
|          | W-TSS        |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | BP-1L   | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 |
|          | CHLSUITE-W   |         |                 |               |               |                                     |   |
| Group: B | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: | HNO3          | Enter Number of Bottles Sent to Lab | 1 |
|          | W-ICP        |         |                 |               |               |                                     |   |
|          | W-ICPMS      |         |                 |               |               |                                     |   |

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|          |              |         |                 |                             |                                     |          |
|----------|--------------|---------|-----------------|-----------------------------|-------------------------------------|----------|
| Group: B | Bottle Type: | P-500ML | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab | <u>1</u> |
|          | W-NH3        |         |                 |                             |                                     |          |
|          | W-NO2NO3     |         |                 |                             |                                     |          |
|          | W-S-A-TP     |         |                 |                             |                                     |          |
|          | W-TKN        |         |                 |                             |                                     |          |
|          | W-TOC        |         |                 |                             |                                     |          |

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|          |              |         |                 |                        |                                     |          |
|----------|--------------|---------|-----------------|------------------------|-------------------------------------|----------|
| Group: B | Bottle Type: | P-125ML | # of Bottles: 1 | Preservative: ICE-FLTR | Enter Number of Bottles Sent to Lab | <u>1</u> |
|          | W-PO4-F      |         |                 |                        |                                     |          |

Date of Request: 31-MAY-2016  
 Created By: SEWELL\_M On: 31-MAY-2016  
 Modified By: MATTHEWS\_D On: 06-JUN-2016  
 Customer: SE-DIST  
 Project: SMP  
 Division:  
 District: Southeast District  
 Sampling Event: SMP-Vero/Sebastian

**Send Coolers To:**

Phone: (772) 467-5574  
 FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Matthew Sewell

Program Module Number: 1306  
 Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 06-JUN-2016  
 Biology Request Reviewed By: MATTHEWS\_D On: 06-JUN-2016  
 Sampling Kit Required: YES Ship on: 10-JUN-2016  
 Sampling Kit Shipped: YES On: 09-JUN-2016  
 Sampling Kit Packed By: LASHLEY\_C  
 Preservatives Needed: NO  
 Date to Receive Samples: 22-JUN-2016  
 Received By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 2199 South Rock Road  
 Fort Pierce, FL 34945  
 Attn: Matthew Sewell

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

**Comments:**

Bottle group B = Main Canal  
 All others "bottle group A"

**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 CaCO3/L                                                        |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                 |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                  |
| 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)               |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                   |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-97) Total Dissolved Solids in aqueous matrices                                                          |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices                                                          |
| Bottle Type: BP-1L   | Number of Bottles: 3 | Preserved With: ICE                                                                                                |
| CHLSUITE-W           | Template:            | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry |
| Bottle Type: P-500ML | Number of Bottles: 3 | Preserved With: ICE And H2SO4                                                                                      |
| W-NH3                | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                         |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                 |
| 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                           |

**Bottle Group B (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 |
| TURBIDITY         | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices          |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| 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)                                           |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-97) Total Dissolved Solids in aqueous matrices                                                                                      |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-97) Total Suspended Solids in aqueous matrices                                                                                      |
| Bottle Type: BP-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W           | Template:            | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry                             |
| 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 |
| Calcium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| 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                    |
| Arsenic              |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| 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                                                                                     |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                                                                             |
| 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: 1 | 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- 2016-06-20-19

Shipping Method: Fedex

Date/Time of Receipt: 7/28/16 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       | 0.4                 | 9                               |               | ✓  |          | 8079 3409 4334 |                                                       |
| Blue      | 1.4                 | 8                               |               | ✓  |          | 7836 8197 4697 |                                                       |
|           |                     |                                 |               |    |          |                |                                                       |
|           |                     |                                 |               |    |          |                |                                                       |
|           |                     |                                 |               |    |          |                |                                                       |
|           |                     |                                 |               |    |          |                |                                                       |

\*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: C

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

Coolers Unpacked/Checked by: C Date: 7/28/16 NCRs (Y/N)? N

Event ID: SE-DIST-2016-07-28-01 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   X  

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 – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):**

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

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

**Additional Comments:**