



# Quality Assurance Manual

For  
**Water Quality Monitoring (WQM) Program**  
Florida Department of Environmental Protection  
Southwest District  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637

Prepared by:  
FDEP Southwest District WQM Program  
May, 2009

### 1.1 Signature Page

The undersigned have read and understood this Quality Plan, are charged with managing and improving the quality system and are responsible for ensuring that all staff properly executes the procedures discussed in the plan.

VACANT - Environmental Specialist III, WQM Supervisor

Date

\_\_\_\_\_

Jason Jendrucko - Environmental Specialist II

Date

 9/9/10  
\_\_\_\_\_

Jonathan Seiler - Environmental Specialist II

Date

 9/9/10  
\_\_\_\_\_

Mike Schuman - Environmental Specialist II

Date

 09/09/10  
\_\_\_\_\_

Charles Thompson - Environmental Specialist I

Date

 9/9/10  
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### 3. Statement of Policy

Our WQM unit resides within the Southwest District's Watershed Restoration Team which is a part of the Bureau of Watershed Restoration in the Division of Environmental Assessment and Restoration.

The function of our unit is to collect water chemistry data that is used in the assessment process for the Total Maximum Daily Load program and various scientific studies within the Department.

In accordance with Chapter 62-160.210(1) F.A.C., the Southwest District Watershed Restoration Management and the WQM Program follow the applicable collection and

quality control protocols and requirements described in DEP-SOP-001/01 (March 31, 2008). This Quality Manual is in conjunction with DEP-SOP-001/01 Standard Operating Procedures is intended to provide guidance for the whole Section in performing it's duties. The Southwest District Watershed Management and Monitoring Programs believe in sound and useful Quality Assurance/ Quality Control management practices.

#### **4. Ethics**

All employees of the DEP Southwest District WQM Program are held to high professional ethical standards in the performance of their duties. All employees are required to read, understand and sign an 'Ethics Statement' attesting to their commitment to honesty and integrity in performance of their duties. In addition, all employees are required to attend an annual ethics training class. Improper, unethical or illegal actions will be dealt with according to the published Administrative Directives of the Florida Department of Environmental Protection.

#### **5. Confidentiality**

All data and reports generated by the DEP Southwest District WQM Program are public record according to Chapter 19 of Florida Statutes. Should the S.W.District WQM Program be closed, all records and materials will be turned over to the Florida Department of Environmental Protection.

#### **6. Organization and Responsibility**

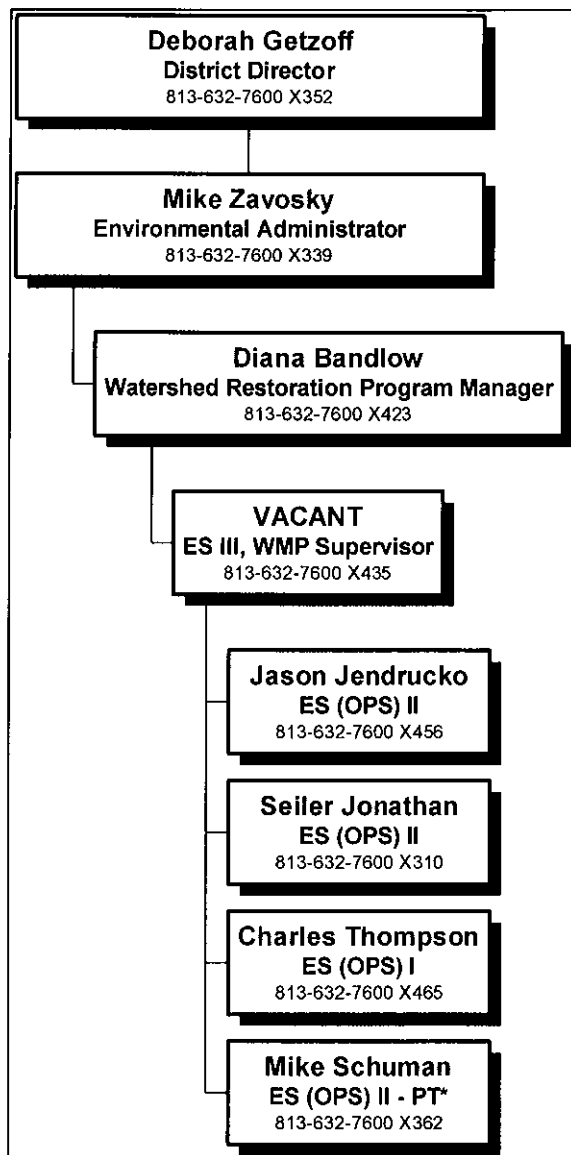
##### **6.1. Organizational Structure**

Our WQM unit resides within the Southwest District's Watershed Restoration Team which is a part of the Bureau of Watershed Restoration in the Division of Environmental Assessment and Restoration.

The function of our unit is to collect water chemistry data that is used in the assessment process for the Total Maximum Daily Load program and various scientific studies within the Department.

The program has one full time Program Supervisor and four Environmental Specialists that work in the program according to the schedule and workload. The WQM Program Organizational Structure is shown in Figure 1.

**Figure 1 - WQM Program Organizational Structure**



\*PT – part time

## 6.2. Key Personnel and Position Descriptions

\*\*A. VACANT: Environmental Specialist III, WQM Supervisor. Supervises, schedules and conducts field sampling, field testing and writes resulting reports. Also, he sets up new STORET sites for this program. Administrator and Quality Control Officer of the WMP Database for the Southwest District.

**\*\*B.** Jason Jendrucko: Environmental Specialist II.

**\*\*C.** Seiler Jonathan: Environmental Specialist II.

**\*\*D.** Charles Thompson, Environmental Specialist I.

**\*\*E.** Michael Schuman, Environmental Specialist II/PT.

(\*\* - Indicates that the individual assists with LIMS scheduling, data input, STORET uploads, instrument calibration, sampling scheduling.)

### **6.3. Staff Training**

All personnel are properly trained to perform their duties. Supervisors periodically assess that our staff performance conforms to the policies and procedures of our unit.

Our training procedures consist of:

- Data Integrity Training for the whole program:
- Review of ethics policy with QA Officer
- Evaluation of effectiveness of training for each staff member.

Ongoing sampling training for field samplers:

- Sampling procedures per SOPs
- Field instrument calibration & care per SOPs
- Proper field documentation (COCs, Field Data Sheets, etc.)
- Timely shipping of samples to Central Lab in Tallahassee
- Data review

### **6.4 Staff Certification**

Personnel shall be hired to meet the specifications of the job they perform. The applications / resumes' of the personnel shall be kept with their job description on file.

## **7. WQM Program Services**

The SWD WMP staff is responsible for:

Sampling the water chemistry of surface waters in the Southwest District (SWD) for the TMDL program assessment process as per the SWD WMP Quality Assurance Manual and DEP SOP 001/01.

Sampling waters in the SWD for special projects such as, setting state standards, developing methods, and studying water chemistry concerns.

Assist with the development of Basin Management Action Plans (BMAP).

Reassess the quality of surface waters in the SWD on an ongoing basis.

## 8. Sampling Procedures

The following sections are adopted by reference from the DEP SOP-001/01. All SOP's are taken out in the field with each team. If at any time non-standard field procedures take place, it must be approved per FA 2100 and FA 2200 of the DEP SOPs.

### 8.1. Sampling SOP's

Section FC 1000 Cleaning/Decontamination Procedures

Section FS 1000 General sampling

Section FS 2000 General Water Sampling

Section FS 2100 Surface Water Sampling

### 8.2. Sampling Capabilities

**Table 1** - Southwest District WMP Sampling Capabilities

| <u>Parameter Group</u>     | <u>Sample Source</u> |
|----------------------------|----------------------|
| Microbiology               | Surface water        |
| Physical/Chemical analyses | Surface water        |

### 8.3. Sampling Equipment

#### 8.3.1. Field Meters

Field meter calibration and documentation will be followed as described in DEP SOP 001/01 Section FT 1000 and recorded in Calibration Log (Figure 3 & 13). The meters concerned are pH, temperature, dissolved oxygen, conductivity and chlorine meters.

**Table 2** - Surface water sampling equipment lists

| Equipment Type                                                   | Use                     | Parameter Groups                            | Restrictions/Precautions                                          |
|------------------------------------------------------------------|-------------------------|---------------------------------------------|-------------------------------------------------------------------|
| Brushes                                                          | Decon                   | All                                         | None                                                              |
| Polypropylene Microbiology bottles or as a back up Whirlpak™bags | Sample transport        | All bacterial parameters                    | (1)                                                               |
| Nalgene Jugs                                                     | DI water Carrier        | All                                         | None                                                              |
| Disposable latex gloves                                          | Sampling                | All                                         | Change between sample sites                                       |
| H <sub>2</sub> SO <sub>4</sub> & HNO <sub>3</sub>                | Sample preservation     | Metals, nutrients, as appropriate           | Replace each trip.<br>Change vials monthly.<br>Concentrated acid. |
| Narrow-range pH paper                                            | Acid-preservation check | Metals, organics, nutrients, as appropriate | None                                                              |

|                                      |                                 |                            |      |
|--------------------------------------|---------------------------------|----------------------------|------|
| Waders                               | Sampling                        | As appropriate             | None |
| Glass bottles                        | Sampling                        | Organics, oils and greases | (1)  |
| Plastic bottles                      | Sampling                        | BOD, nutrients, metals     | (1)  |
| Van Dorn Bottle (horizontal sampler) | Grab sampling at specific depth | Metals, nutrients          | None |
| Kemmerer (vertical sampler)          | Grab sampling at specific depth | Metals, nutrients          | None |
| DI Water                             | Decon                           | All                        | None |

#### 8.3.1.1. Preventative Maintenance

All field instruments must be initially calibrated at the beginning of each working day. A continuing calibration check shall be analyzed at intervals of no more than 24 hours and at the end of the sampling day to determine if the instrument has maintained calibration. Calibrations are recorded in Calibration Log (Figure 3 & 13).

The instrument shall be recalibrated if the continuing calibration checks fail to meet acceptance criteria.

All quality control data shall be recorded in the daily field notes.

**Table 3 - Field Equipment Routine Maintenance**

| Instrument                                        | Activity                                                                                          | Frequency        |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------|
| YSI (temperature, conductivity, DO, salinity, pH) | Probes checked for: breaks or damage, sufficient battery charge, case damage, proper calibration. | Before each trip |

#### 8.3.2. Sampling Bottles

**Types of Bottles** - The types of bottles utilized are:

- 1000 mL, 500ml, 125 mL - white plastic bottles
- 1000 mL - brown plastic bottles
- Polypropylene microbiology bottles or as a backup Whirlpak™ bags

Every effort is made to schedule projects and keep inventory such that **pre-cleaned bottles** are available. In the case where this is not possible, cleaning procedures as listed in DEP SOP-001/01 Section FC 1000 will be followed. Any deviation will be documented, and wash blanks will be analyzed.

**Sampling Kits** - Instructions are prepared for the DEP Central Laboratory technicians responsible for preparing the SW District sampling kits; each time a request is made and approved in the Central Laboratory's LIMS. Field sheets describing the use of each bottle are generated automatically from the LIMS and enclosed in the sampling kit.

Bottles are marked for specific analyses and are packed into coolers. When a kit is ready for shipment to the District, the technicians indicate the lot number(s) in which the bottle(s) belong, initial and date the preparation instructions. One copy is shipped with the kit and the originals are retained in the Central Laboratory.

Emergency sampling kits are put together in the district, using bottles obtained from the DEP Central Laboratory.

**Table 4 - Required Containers, Preservation Techniques and Holding Times  
(Water/Wastewater samples)**

| Name                                                 | Container                                                       | Preservation                                                                                                       | Maximum holding time                      |
|------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Alkalinity (W-ALK)                                   | 1000ml white plastic bottle                                     | Cool, 4°C , ice                                                                                                    | 14 days                                   |
| Ammonia (W-NH <sub>3</sub> )                         | 500ml white plastic bottle                                      | Cool, 4°C , ice,<br>H <sub>2</sub> SO <sub>4</sub> , to pH<2                                                       | 28 days                                   |
| Chloride (W-CL-IC)                                   | 1000ml white plastic bottle                                     | None required, ice                                                                                                 | 28 days                                   |
| Fluoride (W-F)                                       | 1000ml white plastic bottle                                     | None required, ice                                                                                                 | 28 days                                   |
| Kjeldahl & organic nitrogen (W-TKN)                  | 500ml white plastic bottle                                      | Cool, 4°C, ice,<br>H <sub>2</sub> SO <sub>4</sub> , to pH<2                                                        | 28 days                                   |
| Nitrate-nitrite (W-NO <sub>2</sub> NO <sub>3</sub> ) | 500ml white plastic bottle                                      | Cool, 4°C, ice,<br>H <sub>2</sub> SO <sub>4</sub> , to pH<2                                                        | 28 days                                   |
| Total Organic Carbon (W-TOC)                         | 500ml white plastic bottle                                      | Cool, 4°C, ice,<br>H <sub>2</sub> SO <sub>4</sub> , to pH<2                                                        | 28 days                                   |
| Orthophosphate (W-PO <sub>4</sub> )                  | 125ml white plastic bottle                                      | Filter immediately,<br>cool 4°C, ice                                                                               | 48 hours                                  |
| Total Phosphorus (W-S-A-P)                           | 500ml white plastic bottle                                      | Cool, 4°C, ice,<br>H <sub>2</sub> SO <sub>4</sub> , to pH<2                                                        | 28 days                                   |
| Total Suspended Solids (W-TSS)                       | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 7 days                                    |
| Total Dissolved Solids (W-TDS)                       | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 28 days                                   |
| Sulfate (W-SO <sub>4</sub> -IC)                      | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 28 days                                   |
| Turbidity (Turb)                                     | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 48 hours                                  |
| Color (W-COLOR)                                      | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 8 hours                                   |
| BOD (BOD <sub>5</sub> )                              | 1000ml white plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 48 hours                                  |
| Coliform, fecal                                      | Polypropylene Microbiology bottles or as a backup Whirlpak™bags | 0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> if chlorinated or if pre-preserved samples are used; 4°C, ice | 6 hr(8 hr before start for potable water) |
| Chlorophyll and Phaeophytin (CHLSUITE -W)            | 1000ml brown plastic bottle                                     | Cool, 4°C, ice                                                                                                     | 28 days                                   |
| Metals (W-ICP)                                       | 500ml white plastic bottle                                      | HNO <sub>3</sub> to pH<2                                                                                           | 6 months                                  |

## 8.4. Preservation

Sample preservation should be performed within fifteen minutes of sample collection.

**Table 5 - Preservatives**

| <b><u>Preservatives</u></b> | <b><u>Specifications</u></b> | <b><u>Field Transport</u></b>                                    |
|-----------------------------|------------------------------|------------------------------------------------------------------|
| Nitric acid                 | Trace metals grade           | Nitric acid-pres soaked glass bottle, Teflon-lined cap*          |
| Sulfuric acid               | Pesticide grade              | Nitric acid-pres soaked glass bottle, Teflon-lined cap*          |
| Sodium Thiosulfate          | Analytical grade             | Polypropylene Microbiology bottles or as a backup Whirlpak™ bags |

\* Prepared new before each sampling trip.

### 8.4.1. Reagent Storage

Reagents for field use are stored in-house in the reagent storage room. When in the field they are stored as follows:

**Table 6 – Reagents Storage in Field**

| <b>Chemical</b>    | <b>Method of Storage</b>                                                                           |
|--------------------|----------------------------------------------------------------------------------------------------|
| Sodium Thiosulfate | Tablet inserted in pre-preserved Polypropylene Microbiology bottles or as a backup Whirlpak™ bags. |
| Sulfuric Acid      | Teflon-lined capped glass bottle carried in foam lined carrying box.                               |
| Nitric Acid        | Teflon-lined capped glass bottle carried in foam lined carrying box.                               |

All reagents and solvents are dated and initialized upon receiving and opening. An inventory list is kept.

## 8.5. Holding Times

Samples should be analyzed as soon as possible after collection. The Required holding times for Water/Wastewater samples can be seen in Table 3. The holding times listed are the maximum times that samples may be held before analysis and still be considered valid. Samples may be held for longer periods only if the permittee, or monitoring laboratory, has data on file to show that the specific types of samples under study are stable for the longer time, and has received a variance from the Regional Administrator under 40 CFR Part 136.3(e). Some samples may not be stable for the maximum

time/period given in the table. A permittee or monitoring laboratory is obligated to hold the sample for a shorter time if knowledge exists to show that this is necessary to maintain sample stability. See Part 136.3(e) for details.

## 8.6. Shipping

Samples are generally segregated by site and placed into insulated coolers. Samples needing preservation by cooling to 4°C are placed in sufficient wet ice for storage and transport. If sample containers are breakable, bubble wrap is taped around the containers and inside the coolers. If coolers are to be transported via bus, airline, or express mail, they are secured with packing tape. If the sampling team is delivering coolers directly from the field, the precaution is not necessary.

When any sample is to be shipped by common carrier or sent through the United States Mail, it must comply with the Department of Transportation Hazardous Materials Regulations (49 CFR Part 172). The person offering such material for transportation is responsible for ensuring such compliance. For the preservation requirements of this table, the office of Hazardous Materials Transportation Bureau, Department of Regulations do not apply to the following materials: hydrochloric acid (HCL) in water solutions at concentrations of 0.04% by weight or less (pH about 1.96 or greater); nitric acid (HNO<sub>3</sub>) in water solutions at concentrations of 0.15% by weight or less (pH about 1.62 or greater); Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) in water solutions at concentrations of 0.35% by weight or less (pH about 1.15 or greater); and Sodium Hydroxide (NaOH) in water solutions at concentrations of 0.008% by weight or less (pH about 12.30 or less).

## 8.7. Field Quality Control Checks

Field quality control activities shall meet or exceed the following requirements.

**Field Blanks** - All equipment blanks shall be collected and analyzed for the same parameters as the associated samples. All blanks shall be preserved, transported, documented and handled as if they were samples. Once collected, they must remain with the sample set until the laboratory has received them.

**Equipment Blanks** - Rinsing the sampling equipment with analyte-free water and collecting the rinsate in appropriate sample containers prepare all equipment blanks.

**Trip blanks** - Trip blanks are required only if samples are to be analyzed for VOC's. They shall be prepared by the organization that is providing the VOC vials, and be prepared by filling vials with analyte-free water. The vials shall be placed in the same transport containers as the empty VOC vials during the sampling episode and shall be transported to the analyzing laboratory in the same shipping or transport container(s) as the VOC samples. The trip blanks shall remain UNOPENED for the entire sampling episode. A trip blank must be submitted for each cooler that transports empty or full VOC vials.

**Field Duplicates** - Field duplicates are collected directly after the sample in the exact same location and manner, and analyzed for the same parameters.

**Table 7** - The frequency for the above QC samples

| # of Samples | Pre-cleaned EQB      | Field Cleaned EQB    | Trip BLK       | Duplicate             |
|--------------|----------------------|----------------------|----------------|-----------------------|
| 10+          | minimum of 1 then 5% | minimum of 1 then 5% | one per cooler | minimum of 1 then 10% |
| 5-9          | one*                 | one*                 | NR             | one                   |
| <5           | one*                 | one*                 | NR             | NR                    |

**NR** - Not required

**Blk** - Blank

**EQB** - Equipment Blank

\* - For 9 or fewer samples, one pre-cleaned equipment blank or a field cleaned equipment blank is required. One field cleaned equipment blank must be collected if equipment is cleaned in the field.

## 8.8. Field Measurements

All field meters are calibrated on the morning they are used, with the data recorded on Calibration Log (Figure 3 & 13). Calibration Forms for field meters have spaces for listing post-field calibration data, and field calibration checks.

In the field, measurements are recorded on DEP Central Laboratory Sample Submittal Forms (Figure 8, 9, 10, 11 & 18, 19, 20) and other Field Sheets presented in Appendix I & II in the end of this manual. All field sheets for specific projects are bound together at the end of the sampling events.

Duplicates and standard readings are recorded in field logbooks or field sheets, and are evaluated according to field data acceptance criteria.

The original Sample Submittal Form is sent with samples to Tallahassee, with a copy retained in the district.

Copies of Sample Submittal Forms are kept on file. Files are in chronological order and are retained indefinitely, for at least three years.

All COCs and reports are kept on file in the WMP Supervisor's office.

## 8.9. Routine Sample Custody

Samples are collected by district staff utilizing the Sampling SOP's. COC begins with the sampling kit. Most kits are sent from the DEP Central Laboratory, checked upon receipt, and stored in a clean, secure area until use. The forms for sample submittal and COC will be filled out in the field directly after the sampling event. Each exchange of possession will be documented on the original COC with copies retained by DEP district personnel. Samples will be shipped in coolers by courier to the DEP Central Laboratory or Contract Laboratory.

Samples shipped by courier will be checked for proper labeling and documentation before being padded and iced. The original COC and sample submittal forms will be placed in a water-proof bag and taped to the inside of the lid of the cooler. The cooler will be taped shut with packing tape, with custody tags in place if appropriate. The WMP Supervisor keeps copies of all courier bills. Samples will not be shipped on Friday in order to ensure they are received the next day at the Central DEP Laboratory.

Samples to be analyzed in the contract laboratory will be received by the chemist immediately upon arrival. The samples and forms will be inspected before custody is transferred. Sample labeling, preservation and integrity will be verified. An audit is performed on the contract laboratory by QA staff from Tallahassee, before contract is signed, to assure a high quality of performed tests in that laboratory.

An example of our Field Sheets, Sample Collection Data Sheets and COC form is presented in Appendix I & II in the end of this manual.  
All field sheets for specific projects are bound together at the end of the sampling events.

Minimum information required on the forms includes:

- a unique sample location/field ID combination
- the date and time collected
- the collector's name
- the submitting agency
- the sample matrix
- sample preservatives
- the analysis requested.

The custody of the sample is defined as one of the following:

- it is in the sampler or transferee's actual possession.
- it is in the sampler or transferee's view, after being in his/her physical possession.
- it was in the sampler or transferee's physical possession and then he/she secured it or placed it in a designated secure area to prevent tempering.

## **9. Waste Disposal**

Nothing is disposed of in the field except pH buffer rinsed from probes during calibration and DI water used to rinse sampling equipment used on non-hazardous matrix. This rinse water is discarded on site.

## **10. Analyte-free water**

Grade I de-ionized water from the laboratory water treatment system is used for cleaning procedures, rinsing field probes, and all other procedures requiring purified water. The use of analyte-free water is based upon ensuring that the analytes to be tested are below detection limit in the DI. The water treatment system contains 0.45-micron filtration, organics scavenging, mixed DI resins, and carbon cartridges and a UV lamp. The system is a closed loop with a circulating pump. The system is monitored weekly, monthly and annually.

## **11. Documentation**

Since accurate documentation is an important factor for determining the success of QA activities, our unit carries out the following record-keeping procedures for the indicated activities to ensure appropriate documentation:

The following spreadsheets are kept in file on our WaRM Common Drive (warm\_common on 'tpares1'; Chris):

- Annual & weekly schedules based on SMP from Tallahassee (Data needs 20XX.xls);
- Calibration log for the YSI instruments (pre and post calibration) (Pre-Post 20XX.xls) which is a back up for the original Calibration Log Sheets kept in WQM program supervisor's office for the last three years;
- (TMDL Upload 20XX.xls) - Uploaded field data to LIMS via Data Merge Tool;
  - Uploaded LIMS data in STORET
  - Updated TMDL upload spreadsheet;
- Reagents log sheet – date received, date opened, expiration date, lot numbers, etc.(Reagents.xls);
- Maintained site list (TMDL\_sites\_8\_18\_05.xls) with updated site information in STORET where new STORET sites are set up as needed;
- Equipment cleaning log (TMDL Cleaning Log.xls);
- Schedule of sampling suites on LIMS (Laboratory Information Management System) (RQs);
- Quarterly reports, reported to the Program Manager.

## 12. Data Review

Staff evaluates program data using program Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs) based on:

- DEP Field SOPs
- 62-160 Quality Assurance
- 62-302 Surface Water Quality Standards, (Table 62-302.530 - Surface Water Quality Standards)
- 62-303 Identification of Impaired Surface Waters
- 62-304 Total Maximum Daily Loads.

Our program understands the need to evaluate the quality and usefulness of environmental data prior to making decisions. We conduct the following review procedures to determine the usability of data for determination of compliance with permits or rules, etc. These procedures are based on our established Data Quality Objectives and Data Quality Indicators, and incorporate the concepts and criteria found in DEP's "Process for Assessing Data Usability", DEP-EA-001/07.

### Also we have the following **STORET / IWR QA / QC Protocol for FDEP SW District**

The purpose of this protocol is to determine if the Tampa generated and Tallahassee generated (LIMS) data is being properly uploaded into the STORET Database (Warehouse) and subsequently into the Impaired Waters Rule database. The goal is to check ~10% of the sites sampled in a calendar year.

#### 12.1. Tampa Data

1. From the SMP weekly schedules choose every 10<sup>th</sup> site (not including Field Blanks or Duplicates). Highlight the site Cell in yellow. Make a copy of the Field Data Sheet for that site visit when completed and retain in a file folder for STORET check later.
2. Within a week of data upload to SIMS go to the STORET website:  
<http://storet.dep.state.fl.us/WrmSpa/>
3. Do a 'Field Msr/Obs'; and a 'Biological' data pull for that site (WBID) and check against original Field Data Sheet (for Field Parameters) and RQ Excel Spreadsheet (for Fecal Coliform data). Double check to insure that any Fecal Coliform qualifiers were properly uploaded. If the data checks out with the Field Data Sheet and RQ Excel Spreadsheet change the schedule cell highlight to orange and also make a note on your copy of the Field Data Sheet that the data was STORET QA/QC'd.

4. As soon as practicable after a new IWR Run is available do a raw data pull for that particular site (WBID) and compare with the original Field Data Sheet or RQ Excel Spreadsheet for Fecal Coliform data. If the data checks out with the Field Data Sheet and RQ Excel Spreadsheet change the schedule cell highlight to light green and also make a note on your copy of the Field Data Sheet that the data was IWR QA/QC'd.

## **12.2. Tallahassee Data**

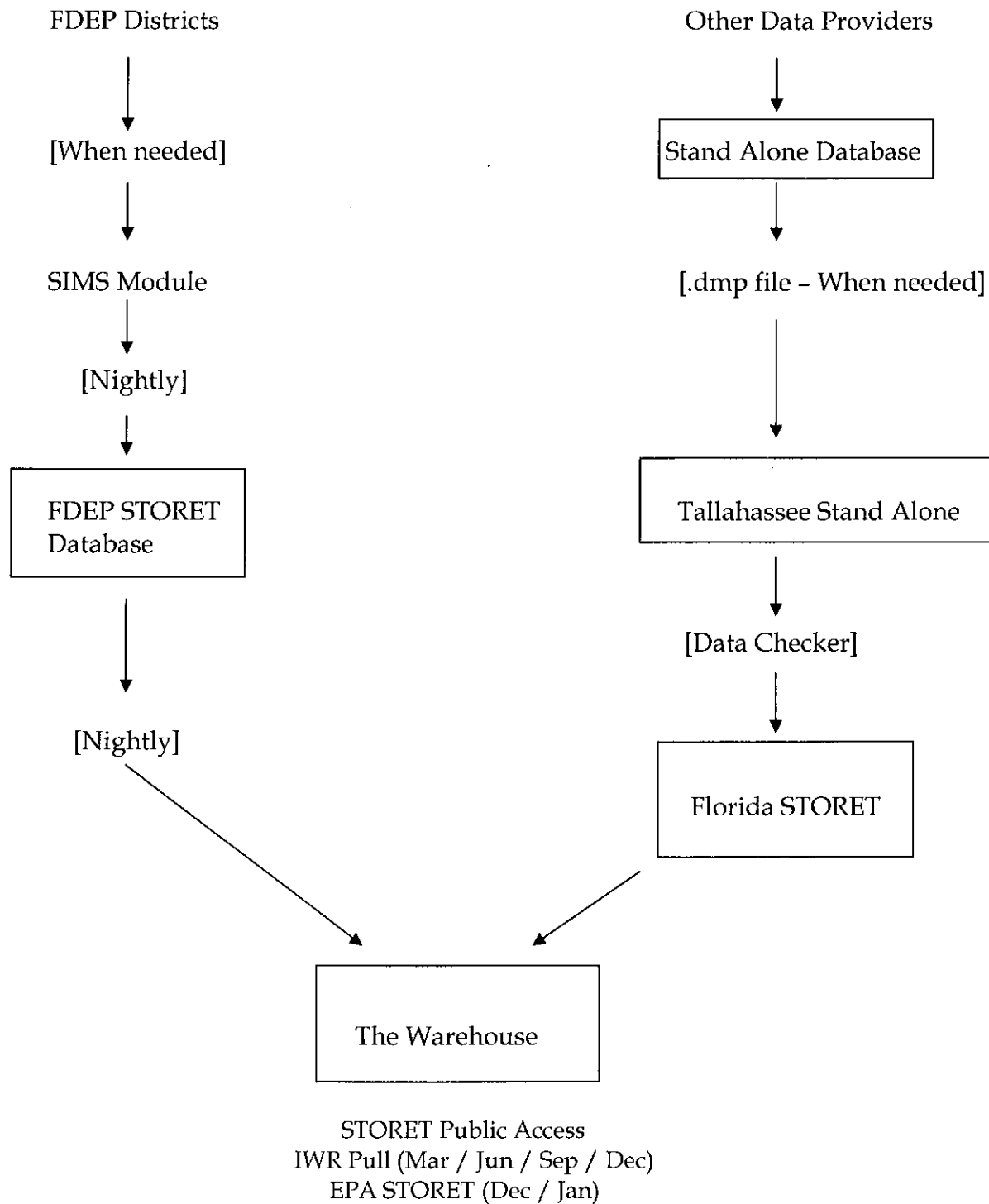
1. Within a week of data upload to SIMS go to STORET website:  
<http://storet.dep.state.fl.us/WrmSpa/>
2. Using same sites as above do a data pull for: 'Biological' & 'Nutrients'  
Chlorophyll a, corrected for Pheophytin  
Nitrogen, Kjeldahl  
Phosphorus as P  
Turbidity
3. Compare the data for those sites from the appropriate RQ Excel spreadsheet. If the data is properly located in STORET change the Font color to blue and also make a note on your copy of the Field Data Sheet that the data was STORET QA/QC'd.
4. As soon as practicable after a new IWR Run is available do a raw data pull for that particular site (WBID) and compare with the original RQ Excel Spreadsheet. If the data checks out with the original RQ Excel Spreadsheet change the Font color to red and also make a note on your copy of the Field Data Sheet that the data was IWR QA/QC'd.

If both the Tampa and Tallahassee data has been properly QA/QC'd in both the STORET and IWR databases the schedule cell should have a light green highlight and a red font.

**FYI:** Tallahassee data generally has a 6-8 week delay from the time of sample collection to formalized LIMS report, often longer if Phytoplankton samples were taken.

Tampa data is generally ready 2-3 days after data collection – Field Parameters and immediate and Fecal Coliforms are ready after analysis is complete.

**Figure 2 - Data Flow and its QC through The Department**

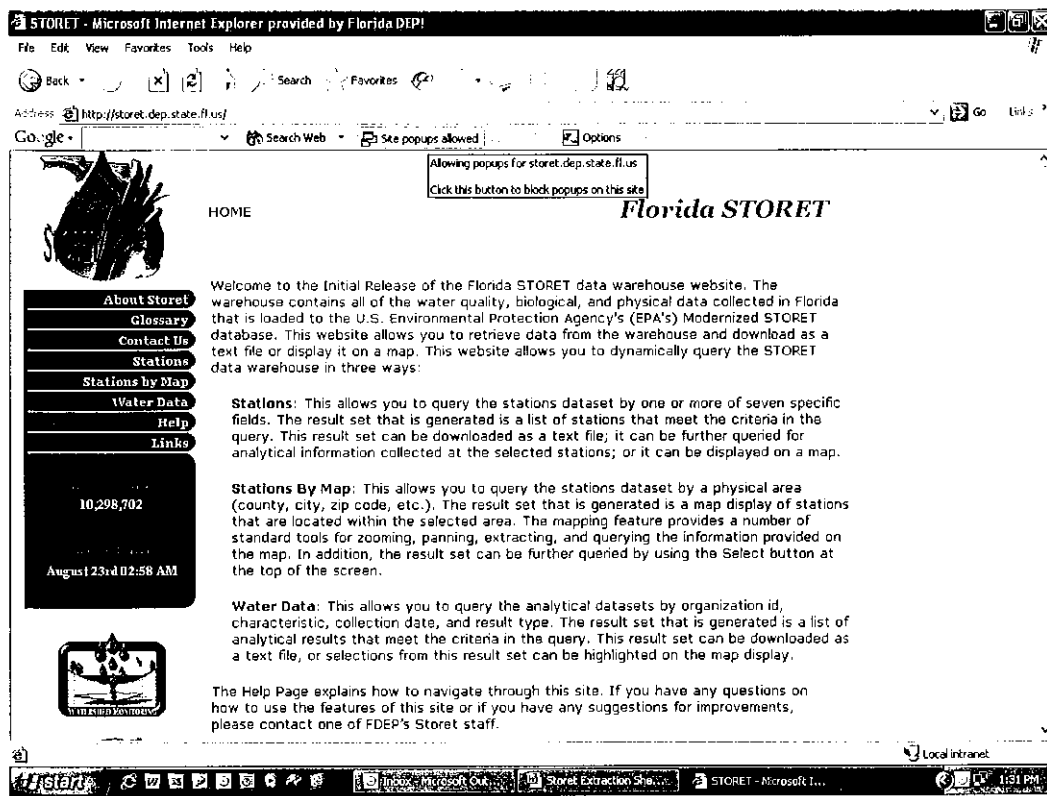


## 12.3 Florida STORET Data Extraction

Go to the following web site:

<http://storet.dep.state.fl.us/WrmSpa/>

When the website opens click the 'Stations' tab on the left hand side in the blue section. The website may not appear exactly as illustrated since it has been 'updated' since these screen shots were made.

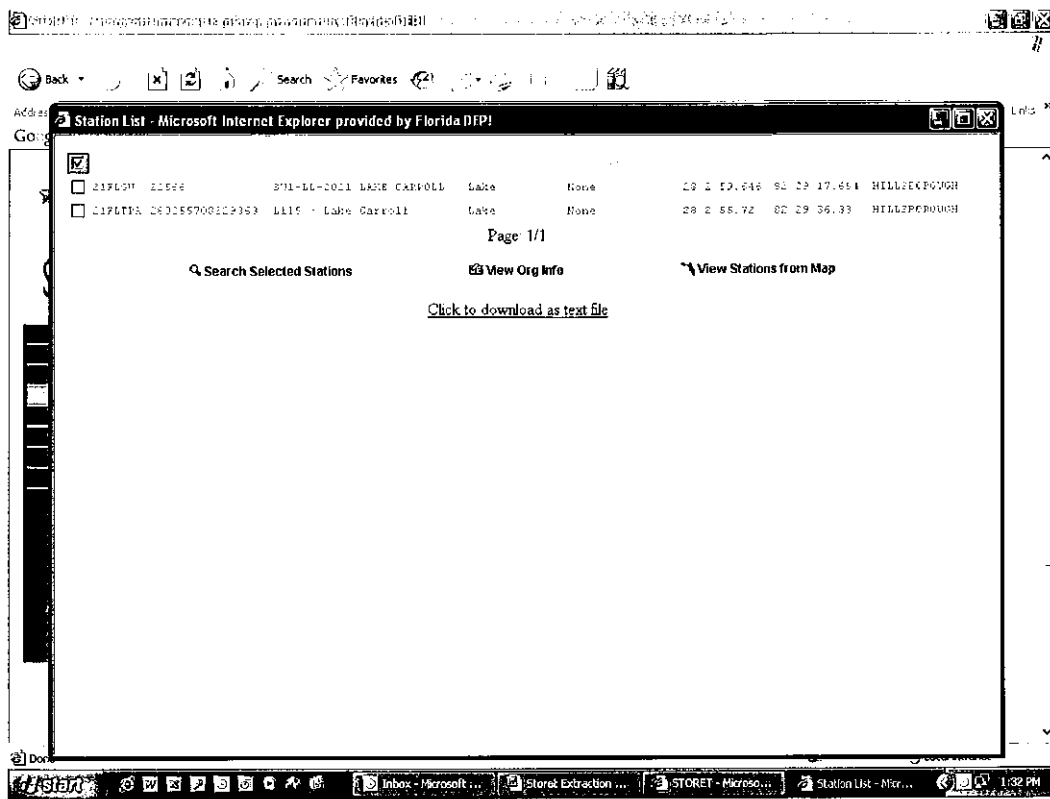


In the drop down box for the 'Org ID' highlight '21FLTPA' - that is the Org ID for our Southwest District Office (you do not have to designate one if you don't know it or want to get other agencies' data – i.e. leave this blank)

Select: 'Strategic Monitoring Plan' from the 'Projects' box. This will give you the data for the TMDL monitoring effort. You can leave this blank to get all projects.

Type in the 'Station Name' (not 'Station ID'): e.g. TPXXX or LXXX  
 {the 'Station ID' is the STORET number (e.g. TP406 is 27511348216273 and TP409 is 27501678216291 - these numbers are based on the Latitude / longitude of the site)}. You can also type in the name of a lake, etc. – e.g. Lake Carroll, or stream e.g. Webb Branch.

Click 'Submit Query' button at the bottom



Check the box(es) to the left of the station you want data for.

Click 'Search Selected Station'

Enter a date range - you can only go back 5 years so maybe change the year to 2002.  
Check current calendar year for STORET QA/QC.

STORET - Microsoft Internet Explorer provided by Florida DEP!

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Home

Address: http://storet.dep.state.fl.us/default.asp?page=results Go Links

Google Search Web Site popups allowed Options



**Florida STORET**

Search | Water Data

- Search water data based on selected stations.

List of selected stations:

| Org ID  | Station Name        |
|---------|---------------------|
| 21FLTPA | L115 - Lake Carroll |

Query Options:

Characteristic: 1,1-Dichloroethylene  
1,2,4-Trichlorobenzene  
1,2-Dibromo-3-chloropropane (DBCP)  
1,2-Dichlorobenzene  
1,2-Diphenylhydrazine

Selected Characteristics

Date Range: Aug 23 2005 To Aug 23 2006

Result Type: ☐ Detected ☐ Non-detected ☒ All

Sort Options:

First sort by: SELECT SORT OPTION

Second sort by: SELECT SORT OPTION

About Storet

Glossary

Contact Us

Stations

Stations by Map

Water Data

Help

Links

10,298,702

August 23rd 02:58 AM

Done Local intranet

Taskbar: Internet Explorer, Inbox - Microsoft..., Storet Extraction..., STORET - Micro..., Station List - Micro..., 1:33 PM

Chose the parameters (characteristics) you wish to see: e.g. Dissolved Oxygen, Chlorophyll a - corrected, Specific Conductance, etc. To chose more than one parameter at a time hold the 'Control' key while selecting the various parameters.

Click 'Submit Query'

Result List - Microsoft Internet Explorer provided by Florida DEP

|                                     |                         |                       |      |      |            |     |    |           |
|-------------------------------------|-------------------------|-----------------------|------|------|------------|-----|----|-----------|
| <input checked="" type="checkbox"/> | 21FLTPA 280055708229361 | Dissolved oxygen (DO) | 6.44 | mg/l | Dissolved  | 0.2 | in | 4/25/2006 |
| <input type="checkbox"/>            | 21FLTPA 280055708229363 | Nitrogen, Kjeldahl    | 0.46 | mg/l | 0.08 Total | 0.2 | in | 4/25/2006 |
| <input type="checkbox"/>            | 21FLTPA 280055708229365 | Dissolved oxygen (DO) | 7.72 | mg/l | Dissolved  | 0.2 | in | 5/17/2006 |
| <input type="checkbox"/>            | 21FLTPA 280055708229369 | Nitrogen, Kjeldahl    | 0.41 | mg/l | 0.08 Total | 0.2 | in | 5/17/2006 |
| <input type="checkbox"/>            | 21FLTPA 280055708229368 | Dissolved oxygen (DO) | 7.44 | mg/l | Dissolved  | 0.2 | in | 5/31/2006 |
| <input type="checkbox"/>            | 21FLTPA 280055708229363 | Nitrogen, Kjeldahl    | 0.43 | mg/l | 0.08 Total | 0.2 | in | 5/31/2006 |

Page 1/1

[Search Selected Stations](#)
[View Org Info](#)
[View Stations from Map](#)

[Click to download as text file](#)

The data for TPXXX (or LXXX) will now appear. You can download as a text file to Word or another text file and do what you want to with it.

### 13. Audits and Corrective Actions

Audits provide objective feedback concerning the effectiveness of our program's quality system, and may identify areas in need of improvement. Therefore, our unit performs the following activities as discussed below:

- Conducts at least one audit on the WMP, per year and compiles audit reports
- Handles complaints and other reports received from data users and the public concerning data quality
- Reports exceptions to established procedures and criteria in the audit report
- Devises and implements corrective actions for problems with procedures, data reviews, etc.

The program's Quality Assurance Officer (QAO) coordinates and participates in the quality evaluation of program data, and provides oversight to ensure that our staff performs their QA functions. Some of the responsibilities are delegated to the WQM Supervisor who is performing QC on every tenth site to see if the data uploaded into STORET is correct. The detailed explanation for this procedure can be found in the Florida STORET Data Extraction document found in section 12.3.

The QAO conducts sampling performance audits, also ensures that corrective actions are implemented for data non-conformance incidents as determined by evaluation of the

data against our program's Data Quality Objectives. Additionally, assists other supervisors in the SWD WMP in the development of the Quality System and other logistical aspects of its implementation, such as coordinating associated training needs. The QAO documents all WMP QA activities, including training, audits and corrective actions and provides this information to the DEP Standards and Assessment Section on a periodic basis.

WQM staff routinely carries out the following duties involving data collection, data usability evaluation, data interpretation, and the generation of DEP work products in a manner that ensures scientific defensibility and adherence to DEP rules and policies. Also, corrective actions are implemented as directed by the Quality Assurance Officer. Program staff provides feedback to the program Quality Assurance Officer for improving the program quality system.

Standards and Assessment Section (SAS), in the Bureau of Assessment and Restoration acts as liaison with other units, data providers, data consumers or other external parties concerning QA matters. The SWD QAO or designee answers public or external technical inquiries about suspected QA problems, site-specific issues, etc.

The WMP's Supervisor ensures that this quality system is fully operational within the WQM section. The WRT Program Manager designates the program's Quality Assurance Officer and provides general oversight. These managers also evaluate the above Data Quality Objectives and Data Quality Indicators to ensure they meet the WQM program's needs. Periodically they evaluate the effectiveness of staff members' data quality activities including reviewing audit results. These managers evaluate corrective action policies and procedures to be implemented when data do not meet program Data Quality Objectives. Our managers discuss audit results with the WRT QA Officer, review the annual Quality Assurance Report to the Secretary, and discuss findings with the WRT QA Officer.

## **14. Report Compilation**

To provide the Secretary with information regarding DEP's ongoing QA efforts, our unit describes and compiles the results of all appropriate QA activities, and relays it to the Standards and Assessment Section for an annual report.

Future adaptive management concerning our QA program is based on findings from audits and data reviews.

Our QAO documents all WRT QA activities, including training, audits and corrective actions and provides this information to the DEP Standards and Assessment Section on a periodic basis.

The audit report will be stored on file in the district. Also the QA officer will perform additional, follow up inspection on the deficiencies founded and in this report the corrective actions will be consisted, so in the end a completed report will be prepared for the WQM team which will be sent to Tallahassee (Standards and Assessment Section).

Appendix I ( Figure 3 - 12 Example Field Documentation from one sampling event )

Figure 3 - Multiparameter Instrument Calibration log

Revised: 10/17/07

Multiparameter Ins<sup>t</sup> (Per F.U. 4.1.1) Calibration Log

| Sonde #                    | Date    | Time  | Battery % | Temp. (°C) | DO (mg/L) | pH   | Salinity (ppt) | DO (mg/L) | pH   | Salinity (ppt) | DO (mg/L) | pH   | Salinity (ppt)                                | Comments / Initials                           |
|----------------------------|---------|-------|-----------|------------|-----------|------|----------------|-----------|------|----------------|-----------|------|-----------------------------------------------|-----------------------------------------------|
| Sonde # 43<br>Display # 43 | 4/27/09 | 05:17 | 12.4      | 23.57      | 8.81      | 8.49 | 7.00           | 7.03      | 7.00 | 7.00           | 7.00      | 7.00 | 7.00                                          | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |
| PRE-FIELD CALIBRATION      |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |
| POST-FIELD VERIFICATION    | 4/27/09 | 15:07 | 12.4      | 23.83      | 8.35      | 8.42 | 7.00           | 7.04      | 7.00 | 7.00           | 7.00      | 7.00 | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |                                               |
|                            |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |
| Sonde # 43<br>Display # 43 | 4/27/09 | 06:40 | 12.2      | 25.34      | 9.12      | 8.21 | 7.00           | 7.01      | 7.00 | 7.00           | 7.00      | 7.00 | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |                                               |
| PRE-FIELD CALIBRATION      |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |
| POST-FIELD VERIFICATION    | 4/27/09 | 15:27 | 12.2      | 23.96      | 8.28      | 8.40 | 7.00           | 7.09      | 7.00 | 7.00           | 7.00      | 7.00 | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |                                               |
|                            |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |
| Sonde # 43<br>Display # 43 | 4/27/09 | 15:27 | 12.2      | 23.96      | 8.28      | 8.40 | 7.00           | 7.09      | 7.00 | 7.00           | 7.00      | 7.00 | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |                                               |
| PRE-FIELD CALIBRATION      |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |
| POST-FIELD VERIFICATION    | 4/27/09 | 15:27 | 12.2      | 23.96      | 8.28      | 8.40 | 7.00           | 7.09      | 7.00 | 7.00           | 7.00      | 7.00 | DO ver: 147<br>pH ver: 1413<br>Cond ver: 1413 |                                               |
|                            |         |       |           |            |           |      |                |           |      |                |           |      |                                               |                                               |

### Figure 4 - Check List for Group 4 Data

### Check List For Group 4 DATA

RQ# 2009-05-04-28

Sampling Date: 5/6/09

Sampling Crew: J. Jendrucko  
C. Person

Site(s): TP355, TP166, TP112,

L46P, L102

**\* Please Check Box When Task Is Done**

- ### 1. Chris's INBOX

-  2. Spread Sheet (LIMS Input) (Chris)

3. QC1 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Print name Date Initials

4. QC 2 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Print name Date Initials

5. STORET Upload (Chris) / \_\_\_\_\_ / \_\_\_\_\_  
Date Initials

-  5. FILE

State of Florida Department of Environmental Protection  
Southwest District  
**FIELD DATA SHEET**

[illegible]

if observed by vegetation before reaching the bottom, write the depth where it disappears followed by the remark code L.

- 1 If Secchi disk is visible on bottom, write the total depth followed
- 2 STORET parameter code varies by type of field test performed.

Figure 6 - Sample Collection Data Sheet

State of Florida Department of Environmental Protection  
Southwest District

SampleCollection 2002.xls

### SAMPLE COLLECTION DATA SHEET

Date: 5/6/09 Time: 1100

|                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |                                |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------------|
| Sample Event: <u>TMDL</u>                                                                                                                                                                                                                                                                                         | Site: <u>L102</u>                                                                                                         | Latitude: <u>N</u>             | Longitude: <u>W</u> |
| Project ID: <u>SMP</u>                                                                                                                                                                                                                                                                                            | Other Sites Sampled This Day: <u>TP355, TP166, TP112, L46P, L102</u>                                                      |                                |                     |
| County: <u>Polk</u>                                                                                                                                                                                                                                                                                               | Field Decon Performed: <input checked="" type="checkbox"/> Filled Containers Directly <input checked="" type="checkbox"/> |                                |                     |
| RQ #: <u>2009-05-04-28</u>                                                                                                                                                                                                                                                                                        | Equipment: <u>  </u>                                                                                                      | Iso: <u>  </u> Acid: <u>  </u> | Soap/H2O: <u>  </u> |
| Sampler Brand/Model: <u>  </u>                                                                                                                                                                                                                                                                                    | Equipment: <u>  </u>                                                                                                      | Iso: <u>  </u> Acid: <u>  </u> | Soap/H2O: <u>  </u> |
| Equipment: <u>  </u>                                                                                                                                                                                                                                                                                              | Equipment: <u>  </u>                                                                                                      | Iso: <u>  </u> Acid: <u>  </u> | Soap/H2O: <u>  </u> |
| Rained within the last: <input checked="" type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> Week <input type="checkbox"/> Month <input checked="" type="checkbox"/> Raining Now <input type="checkbox"/> Low <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |                                                                                                                           |                                |                     |

|                                                            |                                          |                                           |       |
|------------------------------------------------------------|------------------------------------------|-------------------------------------------|-------|
| BOD5 (biochemical oxygen demand, in water)                 | 1 L white plastic bottle                 | ice                                       | 37501 |
| FCOLI-MF (fecal coliforms, in water)                       | Whirlpak                                 | ice                                       |       |
| TCOLI-MF (total coliforms, in water)                       | Whirlpak                                 | ice                                       |       |
| W-TKN (total Kjeldahl nitrogen, in water)                  | 500 mL white plastic bottle              | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |       |
| W-NO2NO3 (nitrate plus nitrite, in water)                  |                                          |                                           |       |
| W-NH3 (ammonia, in water)                                  |                                          |                                           |       |
| W-TP (total phosphorus, in water)                          |                                          |                                           |       |
| W-TOC (total organic carbon, in water)                     |                                          |                                           |       |
| Turb (turbidity, in water)                                 |                                          |                                           |       |
| W-ALK (alkalinity, in water)                               |                                          |                                           |       |
| W-COLOR (color, in water)                                  |                                          |                                           |       |
| W-TSS (total suspended solids, in water)                   | 1 L white plastic bottle                 | ice                                       |       |
| W-TDS (total dissolved solids, in water)                   |                                          |                                           |       |
| W-SO4-IC (sulfate, in water)                               |                                          |                                           |       |
| W-CL-IC (chloride, in water)                               |                                          |                                           |       |
| W-F (fluoride, in water)                                   | 500 mL white plastic bottle              | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |       |
| W-DOC (Dissolved Organic Carbon) - filtered (.45µ)         | 500 mL white plastic bottle              | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |       |
| W-COD (chemical oxygen demand, in water)                   | 125 mL white plastic bottle              | filter, then ice                          |       |
| W-PO4 (orthophosphate, in water) - filtered (.45µ)         | 500 mL opaque plastic bottle             | ice                                       |       |
| AA-AGP (algal growth potential, in water)                  | 1 L brown plastic bottle                 | ice                                       |       |
| CHLSUITE-W (chlorophyll and phaeophytin, in water)         | 1 L brown plastic bottle                 | 3 mL Lugol's, ice                         |       |
| PPK-QN-C (phytoplankton, in water)                         | 500 mL white plastic bottle              | 1 mL HNO <sub>3</sub> , ice               |       |
| W-ICP (metals, in water); W-ICPMS; W-ICP-TR                | 1 L brown glass bottle                   | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |       |
| W-HG-H (mercury, in water)                                 | 40 mL glass vial                         | ice                                       |       |
| OV-OIL-GRS (oil and grease, in water)                      | 1 L brown glass bottle                   | ice                                       |       |
| W-VOC-MS (volatile organic carbon, in water)               | 1 L brown glass bottle                   | ice                                       |       |
| W-BNA (base neutral extractables, in water)                | 1 L brown glass bottle                   | ice                                       |       |
| W-PEST-CL (chlorinated pesticides, in water)               |                                          |                                           |       |
| W-PEST-NP (organonitrogen/phosphorus pesticides, in water) |                                          |                                           |       |
| S-SO4-IC (sulfate, in soil)                                | 1 L glass jar                            | ice                                       |       |
| OV-OILGR-S (oil and grease, in soil)                       | 250 mL glass jar                         | ice                                       |       |
| S-VOS-MS (volatile organic carbon, in soil)                | 250 mL glass jar, 2 vials, 1 Bore sample | ice                                       |       |
| S-BNA (base neutral extractables, in soil)                 | 1 L glass jar                            | ice                                       |       |
| S-HG-H (mercury, in soil)                                  |                                          |                                           |       |
| S-ICP (metals, in soil)                                    |                                          |                                           |       |
| S-PEST-IC (chlorinated pesticides, in soil)                |                                          |                                           |       |
| S-PEST-NP (organonitrogen/phosphorus pesticides, in soil)  |                                          |                                           |       |
| SED-PSZ-LS (laser measurement of sediment particle size)   | 250 mL glass jar                         | ice                                       |       |
| SDMT-AFDW (sediment percent organic)                       |                                          |                                           |       |
| MI-FW-QLDC (freshwater inverts SCI dipnet)                 | 2 L white plastic jar                    | 10% formalin                              |       |
| MI-FW-QLBR (freshwater inverts borecon dipnet)             | 4 Dram glass vials                       | 70% EtOH or 10% formalin                  |       |
| MI-FW-QNAC (freshwater inverts Hester-Dendy samplers)      | Whirlpak                                 | ice, then 10% formalin                    |       |
| MI-FW-QNLC (freshwater inverts lakes 12-grab composite)    | 2 L white plastic jar                    | 10% formalin                              |       |
| MI-MN-QL-C (marine inverts qual grab/s)                    | 2 L white plastic jar                    | 10% formalin                              |       |



Figure 8 - Central Laboratory Sample Submittal Form 1a/3

Request Number: RQ-2009-05-04-28  
WOM

Florida Department of Environmental Protection  
Central Laboratory Sample Submittal Form

Requester: Chris Person  
Field Report Prepared By: J. Jendrucko

Customer: SW-DIST  
Project ID: SMP  
PMAS:

Collected By: J. Jendrucko, C. Person  
Sampling Agency: FDEP/SWD/TMDL/WQM

Send Final Report To: Jason Cohen

| Location | Field ID | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C) | pH   | Latitude       | Longitude      | Collection (begin) Date | Collection (begin) Time | Collection (end) Date | Collection (end) Time | Store Station Number | NPDES Number | Bottle Group(s)** |
|----------|----------|---------------------------------------------|----------|------|----------------|----------------|-------------------------|-------------------------|-----------------------|-----------------------|----------------------|--------------|-------------------|
| TP355    | 37503    | water/fresh                                 | 25.02    | 7.86 | 27° 54' 16.30" | 81° 36' 47.70" | 5/16/09                 | 09:30                   | 5/16/09               | 09:30                 | 27541638136477       |              | L                 |
| TP166    | 37505    | water/fresh                                 | 25.07    | 7.38 | 27° 55' 21.50" | 81° 44' 35.90" | 5/16/09                 | 09:50                   | 5/16/09               | 09:50                 | 27552158149358       |              | B                 |
| TP112    | 37504    | water/fresh                                 | 28.23    | 7.39 | 28° 0' 8.00"   | 81° 41' 5.00"  | 5/16/09                 | 10:10                   | 5/16/09               | 10:10                 | 25020257             |              | B                 |
| L46P     | 37502    | water/fresh                                 | 27.35    | 8.67 | 28° 5' 33.40"  | 81° 42' 23.20" | 5/16/09                 | 10:45                   | 5/16/09               | 10:45                 | 29020270             |              | B                 |

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Shipping Method: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Figure 9 - Central Laboratory Sample Submittal Form 1b/3

**Florida Department of Environmental Protection**  
**Central Laboratory Sample Submittal Form**

Request Number: RQ-2009-05-04-28  
WQM

Requester: Chris Person  
Collected By: J. Vendercrude, C. Person  
Sampling Agency: FDEP/TMOL/SWP/WQM

Field Report Prepared By: J. Vendercrude  
Send Final Report To: Jason Cohen

Customer: SW-DIST  
Project ID: SMP  
PMAS:

|                                             |                |                           |                       |                          |                   |
|---------------------------------------------|----------------|---------------------------|-----------------------|--------------------------|-------------------|
| Location                                    | L102           | Collection (begin)        | Collection (end)      | Eastern Central          | Bottle Group(s)** |
| Field ID                                    | 37501          | Date 5/6/09 Time 8:17     | Date 5/6/09 Time 8:17 | Storet Station Number    | 280341814242      |
| Matrix (Include type e.g. Salt, Fresh, etc) | water / fresh  | Diss Oxygen (mg/L)        | 8.17                  | Salinity (PPTH)          | NPDES Number      |
| Latitude                                    | 28° 3' 41.00"  | Sample Depth [ ] m [ ] ft | 340 / .16             | Sp Conductance (umho/cm) |                   |
| Longitude                                   | 81° 42' 42.00" | Comments                  |                       |                          |                   |
| Location                                    |                | Collection (begin)        | Collection (end)      | Eastern Central          | Bottle Group(s)** |
| Field ID                                    |                | Date                      | Date                  | Storet Station Number    |                   |
| Matrix (Include type e.g. Salt, Fresh, etc) |                | Diss Oxygen (mg/L)        |                       | Salinity (PPTH)          | NPDES Number      |
| Latitude                                    |                | Sample Depth [ ] m [ ] ft |                       | Sp Conductance (umho/cm) |                   |
| Longitude                                   |                | Comments                  |                       |                          |                   |
| Location                                    |                | Collection (begin)        | Collection (end)      | Eastern Central          | Bottle Group(s)** |
| Field ID                                    |                | Date                      | Date                  | Storet Station Number    |                   |
| Matrix (Include type e.g. Salt, Fresh, etc) |                | Diss Oxygen (mg/L)        |                       | Salinity (PPTH)          | NPDES Number      |
| Latitude                                    |                | Sample Depth [ ] m [ ] ft |                       | Sp Conductance (umho/cm) |                   |
| Longitude                                   |                | Comments                  |                       |                          |                   |
| Location                                    |                | Collection (begin)        | Collection (end)      | Eastern Central          | Bottle Group(s)** |
| Field ID                                    |                | Date                      | Date                  | Storet Station Number    |                   |
| Matrix (Include type e.g. Salt, Fresh, etc) |                | Diss Oxygen (mg/L)        |                       | Salinity (PPTH)          | NPDES Number      |
| Latitude                                    |                | Sample Depth [ ] m [ ] ft |                       | Sp Conductance (umho/cm) |                   |
| Longitude                                   |                | Comments                  |                       |                          |                   |
| Relinquished By:                            | Date/Time      | Shipping Method:          | Received By:          | Date/Time                | Relinquished By:  |
|                                             |                |                           |                       |                          |                   |

Figure 10 - Central Laboratory Sample Submittal Form 2/3

Page 2 of 3

|                   |                          |                  |                             |                                     |
|-------------------|--------------------------|------------------|-----------------------------|-------------------------------------|
| Group: A          | Bottle Type: P-1L        | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>BOD-UNIN</b>   |                          |                  |                             |                                     |
| Group: A          | Bottle Type: BP-1L       | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>CHLSUITE-W</b> |                          |                  |                             |                                     |
| Group: A          | Bottle Type: P-140ML-THI | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>SWD-PCE-FC</b> |                          |                  |                             |                                     |
| Group: A          | Bottle Type: P-1L        | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>TURBIDITY</b>  |                          |                  |                             |                                     |
| W-ALK             |                          |                  |                             |                                     |
| W-CL-IC           |                          |                  |                             |                                     |
| W-COLOR           |                          |                  |                             |                                     |
| W-F               |                          |                  |                             |                                     |
| W-SO4-IC          |                          |                  |                             |                                     |
| W-TDS             |                          |                  |                             |                                     |
| W-TSS             |                          |                  |                             |                                     |
| Group: A          | Bottle Type: P-500ML     | # of Bottles: 11 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab |
| <b>W-ICP</b>      |                          |                  |                             |                                     |
| Group: A          | Bottle Type: P-500ML     | # of Bottles: 11 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| <b>W-NH3</b>      |                          |                  |                             |                                     |
| W-NO2NO3          |                          |                  |                             |                                     |
| W-SA-TP           |                          |                  |                             |                                     |
| W-TKN             |                          |                  |                             |                                     |
| W-TOC             |                          |                  |                             |                                     |
| Group: A          | Bottle Type: P-125ML     | # of Bottles: 11 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab |
| <b>W-PO4-F</b>    |                          |                  |                             |                                     |
| Group: B          | Bottle Type: P-140ML-THI | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>SWD-PCE-FC</b> |                          |                  |                             |                                     |
| Group: C          | Bottle Type: P-1L        | # of Bottles: 3  | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>BOD-UNIN</b>   |                          |                  |                             |                                     |
| Group: D          | Bottle Type: P-1L        | # of Bottles: 2  | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| <b>BOD-UNIN</b>   |                          |                  |                             |                                     |

Figure 11 - Central Laboratory Sample Submittal Form 3/3

|            |                         |                 |                                |                                     |
|------------|-------------------------|-----------------|--------------------------------|-------------------------------------|
| Group: D   | Bottle Type:<br>BP-1L   | # of Bottles: 2 | Preservative:<br>ICE           | Enter Number of Bottles Sent to Lab |
| CHLSUITE-W |                         |                 |                                |                                     |
| Group: D   | Bottle Type:<br>P-500ML | # of Bottles: 2 | Preservative:<br>ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NO2NO3   |                         |                 |                                |                                     |
| W-S-A-TP   |                         |                 |                                |                                     |
| W-TKN      |                         |                 |                                |                                     |
| Group: E   | Bottle Type:<br>BP-1L   | # of Bottles: 1 | Preservative:<br>ICE           | Enter Number of Bottles Sent to Lab |
| CHLSUITE-W |                         |                 |                                |                                     |
| Group: E   | Bottle Type:<br>P-500ML | # of Bottles: 1 | Preservative:<br>ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NO2NO3   |                         |                 |                                |                                     |
| W-S-A-TP   |                         |                 |                                |                                     |
| W-TKN      |                         |                 |                                |                                     |

Figure 12 - Chain-Of-Custody Record

| Pace Analytical<br>8 East Tower Circle<br>Ormond Beach, FL 32174<br>(386)672-5668 • FAX (386)673-4001 |  | CHAIN OF CUSTODY RECORD                                    |  |                       |  | No.                       | Page <u>1</u> of <u>1</u> |
|-------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|-----------------------|--|---------------------------|---------------------------|
| 1. Client: (Company or Individual):                                                                   |  | FOR LAB USE ONLY                                           |  | FOR LAB USE ONLY      |  | Submission No.            |                           |
| FDEP                                                                                                  |  | Temp. of Contents: <u>7.2</u> °C (or Received on Ice, R01) |  | Condition of Seals:   |  | Routine With QC           |                           |
| Address:                                                                                              |  | 13051 N. Telecom Parkway                                   |  | Phone: (813) 632-7600 |  | Standard                  |                           |
| City: Temple Terrace                                                                                  |  | State: FL                                                  |  | Zip Code: 33637       |  | Rash: / /                 |                           |
| Address:                                                                                              |  | 2600 Blairstone Rd.                                        |  | Phone: ( )            |  |                           |                           |
| City: Tallahassee                                                                                     |  | State: FL                                                  |  | Zip Code: ( )         |  |                           |                           |
| 3. Client Project Name:                                                                               |  | 14. IS. Preservatives                                      |  | 15. C                 |  |                           |                           |
| SMP                                                                                                   |  | 16. Containers                                             |  | M                     |  |                           |                           |
| 4. RO No.: <u>2009-05-D4-28</u>                                                                       |  | 17.                                                        |  |                       |  |                           |                           |
| 5. P.O. No.:                                                                                          |  | DW = Drinking Water                                        |  | V = VOA vial          |  | C = Cool Only             |                           |
| 6. Custody Seal No.:                                                                                  |  | GW = Ground Water                                          |  | G = glass             |  | H = Hydrochloric Acid     |                           |
| 7. Sampled By: <u>C. Peltz</u>                                                                        |  | SW = Surface Water                                         |  | P = plastic           |  | M = Monochloroacetic Acid |                           |
| 8. Shipping Method:                                                                                   |  | PW = Processed Water                                       |  | M = micro bag/cup     |  | N = Nitric Acid           |                           |
| Hand Delivered                                                                                        |  | WW = Waste Water                                           |  | O = other             |  | OH = Sodium Hydroxide     |                           |
| 9. Sample Field ID#:                                                                                  |  | 10. Sample Site Name:                                      |  | 11.                   |  | S = Sulfuric Acid         |                           |
| 1                                                                                                     |  | TP355                                                      |  | Date: <u>5/6/09</u>   |  | T = Sodium Thiosulfate    |                           |
| 2                                                                                                     |  | TP166                                                      |  | Time: <u>0930</u>     |  |                           |                           |
| 3                                                                                                     |  | TP112                                                      |  | Time: <u>1010</u>     |  |                           |                           |
| 4                                                                                                     |  | L46P                                                       |  | Time: <u>1045</u>     |  |                           |                           |
| 5                                                                                                     |  | L46P                                                       |  | Time: <u>1045</u>     |  |                           |                           |
| 21. RELINQUISHED BY                                                                                   |  | DATE                                                       |  | TIME                  |  | 22. RECEIVED BY           |                           |
| [Signature]                                                                                           |  | 5/6/09                                                     |  | 1215                  |  | [Signature]               |                           |
| 23. Sampling Fee:                                                                                     |  | Hrs.                                                       |  | Equipment Rental Fee: |  |                           |                           |

# Appendix II ( Figure 13 - 21 Field Documentation - Blank Sheets )

## Figure 13 - Multiparameter Instrument Calibration Log - Blank

Revised: 10/17/07

Multiparameter Instrument Calibration Log  
(Per FD 4100)

| Sonde #                 | Date: | Time (24 hr): | Battery (V): | Temp (°C): | DO: (mg/L): | pH (su)   | Conductivity (µmho/cm):                                                                                                                                                                                                                                                                                                                                      | Comments / Initials                                                                                                         |
|-------------------------|-------|---------------|--------------|------------|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Display #               |       |               |              |            |             |           | <div style="display: flex; justify-content: space-between;"> <div>                     147<br/>140-154<br/>143-146<br/>1413<br/>1200-13000<br/>12500-13500 / 17-20000-25000                 </div> <div>                     acceptable<br/>range (± 3%):                 </div> </div>                                                                      | Team Leader (if known):                                                                                                     |
| PRE-FIELD CALIBRATION   |       |               |              | meter      | initial     | buffer    | <div style="display: flex; justify-content: space-between;"> <div>                     initial<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     adjusted<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     observed<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div> | DO ver: <input type="checkbox"/><br>pH ver: <input type="checkbox"/><br>Cond ver: <input type="checkbox"/>                  |
| POST-FIELD VERIFICATION |       |               |              | meter      | actual      | should be | <div style="display: flex; justify-content: space-between;"> <div>                     standard<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     reading<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div>                                                                                               | Post Field Verification Passed?<br><input type="checkbox"/> DO; <input type="checkbox"/> pH; <input type="checkbox"/> Cond. |

| Sonde #                 | Date: | Time (24 hr): | Battery (V): | Temp (°C): | DO: (mg/L): | pH (su)   | Conductivity (µmho/cm):                                                                                                                                                                                                                                                                                                                                      | Comments / Initials                                                                                                         |
|-------------------------|-------|---------------|--------------|------------|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Display #               |       |               |              |            |             |           | <div style="display: flex; justify-content: space-between;"> <div>                     147<br/>140-154<br/>143-146<br/>1413<br/>1200-13000<br/>12500-13500 / 17-20000-25000                 </div> <div>                     acceptable<br/>range (± 3%):                 </div> </div>                                                                      | Team Leader (if known):                                                                                                     |
| PRE-FIELD CALIBRATION   |       |               |              | meter      | initial     | buffer    | <div style="display: flex; justify-content: space-between;"> <div>                     initial<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     adjusted<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     observed<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div> | DO ver: <input type="checkbox"/><br>pH ver: <input type="checkbox"/><br>Cond ver: <input type="checkbox"/>                  |
| POST-FIELD VERIFICATION |       |               |              | meter      | actual      | should be | <div style="display: flex; justify-content: space-between;"> <div>                     standard<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     reading<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div>                                                                                               | Post Field Verification Passed?<br><input type="checkbox"/> DO; <input type="checkbox"/> pH; <input type="checkbox"/> Cond. |

| Sonde #                 | Date: | Time (24 hr): | Battery (V): | Temp (°C): | DO: (mg/L): | pH (su)   | Conductivity (µmho/cm):                                                                                                                                                                                                                                                                                                                                      | Comments / Initials                                                                                                         |
|-------------------------|-------|---------------|--------------|------------|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Display #               |       |               |              |            |             |           | <div style="display: flex; justify-content: space-between;"> <div>                     147<br/>140-154<br/>143-146<br/>1413<br/>1200-13000<br/>12500-13500 / 17-20000-25000                 </div> <div>                     acceptable<br/>range (± 3%):                 </div> </div>                                                                      | Team Leader (if known):                                                                                                     |
| PRE-FIELD CALIBRATION   |       |               |              | meter      | initial     | buffer    | <div style="display: flex; justify-content: space-between;"> <div>                     initial<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     adjusted<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     observed<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div> | DO ver: <input type="checkbox"/><br>pH ver: <input type="checkbox"/><br>Cond ver: <input type="checkbox"/>                  |
| POST-FIELD VERIFICATION |       |               |              | meter      | actual      | should be | <div style="display: flex; justify-content: space-between;"> <div>                     standard<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> <div>                     reading<br/>147<br/>7.00<br/>4.00<br/>10.00                 </div> </div>                                                                                               | Post Field Verification Passed?<br><input type="checkbox"/> DO; <input type="checkbox"/> pH; <input type="checkbox"/> Cond. |

**Figure 14 - Check List for Group 4 Data - Blank**

### Check List For Group 4 DATA

RQ # \_\_\_\_\_

Sampling Date: \_\_\_\_\_

Sampling Crew: \_\_\_\_\_

Site(s): \_\_\_\_\_

**\* Please Check Box When Task Is Done**

1. Chris's INBOX
2. Spread Sheet (LIMS Input) (Chris)
3. QC 1 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Print name Date Initials
4. QC 2 \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
Print name Date Initials
5. STORET Upload (Chris) / \_\_\_\_\_ / \_\_\_\_\_  
Date Initials
5. FILE

**Figure 15 - Field Data Sheet - Blank**

[illegible]

Figure 16 - Sample Collection Data Sheet - Blank

State of Florida Department of Environmental Protection  
Southwest District

SampleCollection 2002.xls

### SAMPLE COLLECTION DATA SHEET

Date: \_\_\_\_\_ Time: \_\_\_\_\_

|                                                                              |  |                                                         |  |                                    |  |
|------------------------------------------------------------------------------|--|---------------------------------------------------------|--|------------------------------------|--|
| Sample Event: TMDL                                                           |  | Site: _____                                             |  | Latitude: _____ N                  |  |
| Project ID: SMP                                                              |  | Other Sites Sampled This Day: _____                     |  | Longitude: _____ W                 |  |
| County: _____                                                                |  | Field Decon Performed: _____                            |  | Filled Containers Directly: _____  |  |
| RQ #: _____                                                                  |  | Equipment: _____                                        |  | Iso _____ Acid _____ SoapH2O _____ |  |
| Sampler Signatures: _____                                                    |  | Equipment: _____                                        |  | Iso _____ Acid _____ SoapH2O _____ |  |
| Rained within the last: 24 hours _____ 48 hours _____ Week _____ Month _____ |  | Raining Now: _____ Low _____ Moderate _____ Heavy _____ |  |                                    |  |

| DEP Parameter Codes                                                | Analyses Included | Sample Container Type                      | Quantity | Preservative/Quantity Per Container       | Field ID Number |
|--------------------------------------------------------------------|-------------------|--------------------------------------------|----------|-------------------------------------------|-----------------|
| BOD5 (biochemical oxygen demand, in water)                         |                   | 1 L white plastic bottle                   |          | ice                                       |                 |
| FCOL-MF (fecal coliforms, in water)                                |                   | Whirlpak                                   |          | ice                                       |                 |
| TCOL-MF (total coliforms, in water)                                |                   | Whirlpak                                   |          | ice                                       |                 |
| W-TKN (total Kjeldahl nitrogen, in water)                          |                   | 500 mL white plastic bottle                |          | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |                 |
| W-NO <sub>2</sub> NO <sub>3</sub> (nitrate plus nitrite, in water) |                   |                                            |          |                                           |                 |
| W-NH <sub>3</sub> (ammonia, in water)                              |                   |                                            |          |                                           |                 |
| W-TP (total phosphorus, in water)                                  |                   |                                            |          |                                           |                 |
| W-TOC (total organic carbon, in water)                             |                   |                                            |          |                                           |                 |
| Turb (turbidity, in water)                                         |                   |                                            |          |                                           |                 |
| W-ALK (alkalinity, in water)                                       |                   |                                            |          |                                           |                 |
| W-COLOR (color, in water)                                          |                   |                                            |          |                                           |                 |
| W-TSS (total suspended solids, in water)                           |                   | 1 L white plastic bottle                   |          | ice                                       |                 |
| W-TDS (total dissolved solids, in water)                           |                   |                                            |          |                                           |                 |
| W-SO <sub>4</sub> -IC (sulfate, in water)                          |                   |                                            |          |                                           |                 |
| W-CL-IC (chloride, in water)                                       |                   |                                            |          |                                           |                 |
| W-F (fluoride, in water)                                           |                   |                                            |          |                                           |                 |
| W-DOC (Dissolved Organic Carbon) - filtered (.45µ)                 |                   | 500 mL white plastic bottle                |          | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |                 |
| W-COD (chemical oxygen demand, in water)                           |                   | 600 mL white plastic bottle                |          | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |                 |
| W-PO <sub>4</sub> (orthophosphate, in water) - filtered (.45µ)     |                   | 126 mL white plastic bottle                |          | filter, then ice                          |                 |
| AA-AGP (algal growth potential, in water)                          |                   | 500 mL opaque plastic bottle               |          | ice                                       |                 |
| CHLSUITE-W (chlorophyll and phaeophytin, in water)                 |                   | 1 L brown plastic bottle                   |          | ice                                       |                 |
| PPK-QN-C (phytoplankton, in water)                                 |                   | 1 L brown plastic bottle                   |          | 3 mL Lugol's, ice                         |                 |
| W-ICP (metals, in water); W-ICPMS; W-ICP-TR                        |                   | 500 mL white plastic bottle                |          | 1 mL HNO <sub>3</sub> , ice               |                 |
| W-HG-H (mercury, in water)                                         |                   |                                            |          |                                           |                 |
| OV-OIL-GRS (oil and grease, in water)                              |                   | 1 L brown glass bottle                     |          | 1 mL H <sub>2</sub> SO <sub>4</sub> , ice |                 |
| W-VOC-MS (volatile organic carbon, in water)                       |                   | 40 mL glass vial                           |          | ice                                       |                 |
| W-BNA (base neutral extractables, in water)                        |                   | 1 L brown glass bottle                     |          | ice                                       |                 |
| W-PEST-CL (chlorinated pesticides, in water)                       |                   | 1 L brown glass bottle                     |          | ice                                       |                 |
| W-PEST-NP (organonitrogen/phosphorus pesticides, in water)         |                   |                                            |          |                                           |                 |
| S-SO <sub>4</sub> -IC (sulfate, in soil)                           |                   | 1 L glass jar                              |          | ice                                       |                 |
| OV-OILGR-S (oil and grease, in soil)                               |                   | 250 mL glass jar                           |          | ice                                       |                 |
| S-VOS-MS (volatile organic carbon, in soil)                        |                   | 250 mL glass jar, 2 vials, 1 Ecore sampler | 14/16    | ice                                       |                 |
| S-BNA (base neutral extractables, in soil)                         |                   | 1 L glass jar                              |          | ice                                       |                 |
| S-HG-H (mercury, in soil)                                          |                   |                                            |          |                                           |                 |
| S-ICP (metals, in soil)                                            |                   |                                            |          |                                           |                 |
| S-PEST-IC (chlorinated pesticides, in soil)                        |                   |                                            |          |                                           |                 |
| S-PEST-NP (organonitrogen/phosphorus pesticides, in soil)          |                   |                                            |          |                                           |                 |
| SED-PSZ-LS (laser measurement of sediment particle size)           |                   | 250 mL glass jar                           |          | ice                                       |                 |
| SDMT-AFDW (sediment percent organic)                               |                   |                                            |          |                                           |                 |
| MI-FW-QLDC (freshwater inverts SCI dipnet)                         |                   | 2 L white plastic jar                      |          | 10% formalin                              |                 |
| MI-FW-QLBR (freshwater inverts bioecon dipnet)                     |                   | 4 Dram glass vials                         |          | 20% ETOH or 10% formalin                  |                 |
| MI-FW-QNAC (freshwater inverts Hessler-Dendy samplers)             |                   | Whirlpak                                   |          | ice, then 10% formalin                    |                 |
| MI-FW-QNLC (freshwater inverts lakes 12-grab composite)            |                   | 2 L white plastic jar                      |          | 10% formalin                              |                 |
| MI-MN-QL-C (marine inverts qual grab/s)                            |                   | 2 L white plastic jar                      |          | 10% formalin                              |                 |

**Figure 17 - Field Notes Data Sheet – Blank**

[illegible]

Figure 18 - Central Laboratory Sample Submittal Form 1/3 - Blank

| <b>Florida Department of Environmental Protection</b><br><b>Central Laboratory Sample Submittal Form</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|---------------------------------------------|-----------|--------------------------------------------------------------------------|----------------|--------------------------|--------------|-----------------|------------------|-----------|------------------|---------------------------------------------|-----------|------------------|----------------|--------------------------|--------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Request Number: RQ-2009-05-04-28<br>WQM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                  |                                             |           | Field Report Prepared By: _____                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Customer: SW-DIST<br>Project ID: SMP<br>PMAS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                  |                                             |           | Requester: Chris Person<br>Collected By: _____<br>Sampling Agency: _____ |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Send Final Report To: Jason Cohen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1"> <tr> <th>Lab ID</th> <th>Location</th> <th>Field ID</th> <th>Matrix (include type e.g. Salt, Fresh, etc)</th> <th>Temp (C)</th> <th>pH</th> <th>Salinity (PPT)</th> <th>Sp Conductance (umho/cm)</th> <th>NPDES Number</th> <th>Bottle Group(s)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> |           |                  |                                             |           |                                                                          |                |                          |              |                 | Lab ID           | Location  | Field ID         | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C)  | pH               | Salinity (PPT) | Sp Conductance (umho/cm) | NPDES Number | Bottle Group(s) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Location  | Field ID         | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C)  | pH                                                                       | Salinity (PPT) | Sp Conductance (umho/cm) | NPDES Number | Bottle Group(s) |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Location  | Field ID         | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C)  | pH                                                                       | Salinity (PPT) | Sp Conductance (umho/cm) | NPDES Number | Bottle Group(s) |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Location  | Field ID         | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C)  | pH                                                                       | Salinity (PPT) | Sp Conductance (umho/cm) | NPDES Number | Bottle Group(s) |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Lab ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Location  | Field ID         | Matrix (include type e.g. Salt, Fresh, etc) | Temp (C)  | pH                                                                       | Salinity (PPT) | Sp Conductance (umho/cm) | NPDES Number | Bottle Group(s) |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <table border="1"> <tr> <th>Relinquished By:</th> <th>Date/Time</th> <th>Shipping Method:</th> <th>Received By:</th> <th>Date/Time</th> <th>Relinquished By:</th> <th>Date/Time</th> <th>Received By:</th> <th>Date/Time</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>                                                                                                                                                                                                                                                                                   |           |                  |                                             |           |                                                                          |                |                          |              |                 | Relinquished By: | Date/Time | Shipping Method: | Received By:                                | Date/Time | Relinquished By: | Date/Time      | Received By:             | Date/Time    |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished By:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Date/Time | Shipping Method: | Received By:                                | Date/Time | Relinquished By:                                                         | Date/Time      | Received By:             | Date/Time    |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                  |                                             |           |                                                                          |                |                          |              |                 |                  |           |                  |                                             |           |                  |                |                          |              |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Figure 19 - Central Laboratory Sample Submittal Form 2/3 - Blank

Page 2 of 3

|             |                          |                  |                             |                                     |
|-------------|--------------------------|------------------|-----------------------------|-------------------------------------|
| Group: A    | Bottle Type: P-1L        | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| BOD-UNIN    |                          |                  |                             |                                     |
| Group: A    | Bottle Type: BP-1L       | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| CHLSURITE-W |                          |                  |                             |                                     |
| Group: A    | Bottle Type: P-140ML-THI | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| SWD-PCE-FC  |                          |                  |                             |                                     |
| Group: A    | Bottle Type: P-1L        | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| TURBIDITY   |                          |                  |                             |                                     |
| W-ALK       |                          |                  |                             |                                     |
| W-CL-IC     |                          |                  |                             |                                     |
| W-COLOR     |                          |                  |                             |                                     |
| W-F         |                          |                  |                             |                                     |
| W-SO4-IC    |                          |                  |                             |                                     |
| W-TDS       |                          |                  |                             |                                     |
| W-TSS       |                          |                  |                             |                                     |
| Group: A    | Bottle Type: P-500ML     | # of Bottles: 11 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab |
| W-ICP       |                          |                  |                             |                                     |
| Group: A    | Bottle Type: P-500ML     | # of Bottles: 11 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NH3       |                          |                  |                             |                                     |
| W-NO2NO3    |                          |                  |                             |                                     |
| W-S-A-TP    |                          |                  |                             |                                     |
| W-TKN       |                          |                  |                             |                                     |
| W-TOC       |                          |                  |                             |                                     |
| Group: A    | Bottle Type: P-125ML     | # of Bottles: 11 | Preservative: ICE-FLTR      | Enter Number of Bottles Sent to Lab |
| W-PO4-F     |                          |                  |                             |                                     |
| Group: B    | Bottle Type: P-140ML-THI | # of Bottles: 11 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| SWD-PCE-FC  |                          |                  |                             |                                     |
| Group: C    | Bottle Type: P-1L        | # of Bottles: 3  | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| BOD-UNIN    |                          |                  |                             |                                     |
| Group: D    | Bottle Type: P-1L        | # of Bottles: 2  | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| BOD-UNIN    |                          |                  |                             |                                     |

Figure 20 - Central Laboratory Sample Submittal Form 3/3 - Blank

|            |                      |                 |                             |                                     |
|------------|----------------------|-----------------|-----------------------------|-------------------------------------|
| Group: D   | Bottle Type: BP-1L   | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| CHLSUITE-W |                      |                 |                             |                                     |
| Group: D   | Bottle Type: P-500ML | # of Bottles: 2 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NO2NO3   |                      |                 |                             |                                     |
| W-S-A-TP   |                      |                 |                             |                                     |
| W-TKN      |                      |                 |                             |                                     |
| Group: E   | Bottle Type: BP-1L   | # of Bottles: 1 | Preservative: ICE           | Enter Number of Bottles Sent to Lab |
| CHLSUITE-W |                      |                 |                             |                                     |
| Group: E   | Bottle Type: P-500ML | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab |
| W-NO2NO3   |                      |                 |                             |                                     |
| W-S-A-TP   |                      |                 |                             |                                     |
| W-TKN      |                      |                 |                             |                                     |

Figure 21 - Chain-Of-Custody Record - Blank

| CHAIN OF CUSTODY RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  | Page ____ of ____                                                                                                                                                                                               |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <div style="display: flex; justify-content: space-between;"> <div> <b>Pace Analytical</b><br/>                     8 East Tower Circle<br/>                     Ormond Beach, FL 32174<br/>                     (386)672-5668 • FAX (386)673-4001                 </div> <div> <b>FOR LAB USE ONLY</b><br/>                     Submission No. _____<br/>                     Condition of Contents: _____<br/>                     Temp. of Contents: _____<br/>                     Address: 13051 N. Telecom Parkway<br/>                     City: Tampa State: FL Zip Code: 33637<br/>                     Address: 2600 Blairstone Rd.<br/>                     City: Tallahassee State: FL Zip Code: _____<br/>                     Address: _____<br/>                     City: _____ State: _____ Zip Code: _____<br/>                     Address: _____<br/>                     City: _____ State: _____ Zip Code: _____                 </div> <div>                     Condition of Seal: _____<br/>                     Phone: (813) 632-7600<br/>                     Fax: _____<br/>                     Phone: _____<br/>                     Fax: _____<br/>                     Phone: _____<br/>                     Fax: _____                 </div> </div> |  |  |  |  |  |  |  |  |  | 18. Report Type:<br><input type="checkbox"/> Routine<br><input type="checkbox"/> With OC<br><input type="checkbox"/> Turnaround Time<br><input type="checkbox"/> Standard<br><input type="checkbox"/> Rush: / / |  |
| 1. Client: (Company or Individual)<br><b>FDEP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |  |  |  |  | 19. Turnaround Time<br><input type="checkbox"/> Standard<br><input type="checkbox"/> Rush: / /                                                                                                                  |  |
| 2. Report to: (if different from above)<br><b>David Whiting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  | 20. REMARK<br><div style="border: 1px solid black; padding: 5px; transform: rotate(-15deg); display: inline-block;">                         FECAL COLIFORMS                     </div>                         |  |
| 3. Client Project Name:<br><b>SMP</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  | 21. RELINQUISHED BY<br><div style="display: flex;"> <div style="flex: 1;">DATE</div> <div style="flex: 1;">TIME</div> </div>                                                                                    |  |
| 4. RQ No.: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |  |  | 22. RECEIVED BY<br><div style="display: flex;"> <div style="flex: 1;">DATE</div> <div style="flex: 1;">TIME</div> </div>                                                                                        |  |
| 5. P.O. No.: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |  |  | 23. Sampling Fee<br>Hrs. _____                                                                                                                                                                                  |  |
| 6. Custody Seal No.: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | 24. Equipment Rental Fee<br>_____                                                                                                                                                                               |  |
| 7. Sampled By: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |  |  |  |  |  | 25. Profile No.: _____                                                                                                                                                                                          |  |
| 8. Shipping Method: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |  |  |  |  | 26. Quote No.: _____                                                                                                                                                                                            |  |
| 9. Sample Field ID#: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |  |  | 27. Sample No.: _____                                                                                                                                                                                           |  |
| 10. Sample Site Name: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  | 28. Sample No.: _____                                                                                                                                                                                           |  |
| 11. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 29. Sample No.: _____                                                                                                                                                                                           |  |
| 12. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 30. Sample No.: _____                                                                                                                                                                                           |  |
| 13. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 31. Sample No.: _____                                                                                                                                                                                           |  |
| 14. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 32. Sample No.: _____                                                                                                                                                                                           |  |
| 15. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 33. Sample No.: _____                                                                                                                                                                                           |  |
| 16. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 34. Sample No.: _____                                                                                                                                                                                           |  |
| 17. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 35. Sample No.: _____                                                                                                                                                                                           |  |
| 18. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 36. Sample No.: _____                                                                                                                                                                                           |  |
| 19. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 37. Sample No.: _____                                                                                                                                                                                           |  |
| 20. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 38. Sample No.: _____                                                                                                                                                                                           |  |
| 21. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 39. Sample No.: _____                                                                                                                                                                                           |  |
| 22. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 40. Sample No.: _____                                                                                                                                                                                           |  |
| 23. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 41. Sample No.: _____                                                                                                                                                                                           |  |
| 24. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 42. Sample No.: _____                                                                                                                                                                                           |  |
| 25. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 43. Sample No.: _____                                                                                                                                                                                           |  |
| 26. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 44. Sample No.: _____                                                                                                                                                                                           |  |
| 27. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 45. Sample No.: _____                                                                                                                                                                                           |  |
| 28. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 46. Sample No.: _____                                                                                                                                                                                           |  |
| 29. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 47. Sample No.: _____                                                                                                                                                                                           |  |
| 30. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 48. Sample No.: _____                                                                                                                                                                                           |  |
| 31. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 49. Sample No.: _____                                                                                                                                                                                           |  |
| 32. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 50. Sample No.: _____                                                                                                                                                                                           |  |
| 33. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 51. Sample No.: _____                                                                                                                                                                                           |  |
| 34. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 52. Sample No.: _____                                                                                                                                                                                           |  |
| 35. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 53. Sample No.: _____                                                                                                                                                                                           |  |
| 36. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 54. Sample No.: _____                                                                                                                                                                                           |  |
| 37. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 55. Sample No.: _____                                                                                                                                                                                           |  |
| 38. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 56. Sample No.: _____                                                                                                                                                                                           |  |
| 39. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 57. Sample No.: _____                                                                                                                                                                                           |  |
| 40. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 58. Sample No.: _____                                                                                                                                                                                           |  |
| 41. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 59. Sample No.: _____                                                                                                                                                                                           |  |
| 42. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 60. Sample No.: _____                                                                                                                                                                                           |  |
| 43. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 61. Sample No.: _____                                                                                                                                                                                           |  |
| 44. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 62. Sample No.: _____                                                                                                                                                                                           |  |
| 45. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 63. Sample No.: _____                                                                                                                                                                                           |  |
| 46. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 64. Sample No.: _____                                                                                                                                                                                           |  |
| 47. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 65. Sample No.: _____                                                                                                                                                                                           |  |
| 48. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 66. Sample No.: _____                                                                                                                                                                                           |  |
| 49. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 67. Sample No.: _____                                                                                                                                                                                           |  |
| 50. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 68. Sample No.: _____                                                                                                                                                                                           |  |
| 51. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 69. Sample No.: _____                                                                                                                                                                                           |  |
| 52. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 70. Sample No.: _____                                                                                                                                                                                           |  |
| 53. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 71. Sample No.: _____                                                                                                                                                                                           |  |
| 54. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 72. Sample No.: _____                                                                                                                                                                                           |  |
| 55. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 73. Sample No.: _____                                                                                                                                                                                           |  |
| 56. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 74. Sample No.: _____                                                                                                                                                                                           |  |
| 57. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 75. Sample No.: _____                                                                                                                                                                                           |  |
| 58. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 76. Sample No.: _____                                                                                                                                                                                           |  |
| 59. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 77. Sample No.: _____                                                                                                                                                                                           |  |
| 60. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 78. Sample No.: _____                                                                                                                                                                                           |  |
| 61. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 79. Sample No.: _____                                                                                                                                                                                           |  |
| 62. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 80. Sample No.: _____                                                                                                                                                                                           |  |
| 63. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 81. Sample No.: _____                                                                                                                                                                                           |  |
| 64. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 82. Sample No.: _____                                                                                                                                                                                           |  |
| 65. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 83. Sample No.: _____                                                                                                                                                                                           |  |
| 66. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 84. Sample No.: _____                                                                                                                                                                                           |  |
| 67. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 85. Sample No.: _____                                                                                                                                                                                           |  |
| 68. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 86. Sample No.: _____                                                                                                                                                                                           |  |
| 69. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 87. Sample No.: _____                                                                                                                                                                                           |  |
| 70. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 88. Sample No.: _____                                                                                                                                                                                           |  |
| 71. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 89. Sample No.: _____                                                                                                                                                                                           |  |
| 72. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 90. Sample No.: _____                                                                                                                                                                                           |  |
| 73. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 91. Sample No.: _____                                                                                                                                                                                           |  |
| 74. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 92. Sample No.: _____                                                                                                                                                                                           |  |
| 75. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 93. Sample No.: _____                                                                                                                                                                                           |  |
| 76. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 94. Sample No.: _____                                                                                                                                                                                           |  |
| 77. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 95. Sample No.: _____                                                                                                                                                                                           |  |
| 78. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 96. Sample No.: _____                                                                                                                                                                                           |  |
| 79. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 97. Sample No.: _____                                                                                                                                                                                           |  |
| 80. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 98. Sample No.: _____                                                                                                                                                                                           |  |
| 81. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 99. Sample No.: _____                                                                                                                                                                                           |  |
| 82. Date Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |  |  | 100. Sample No.: _____                                                                                                                                                                                          |  |

