

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SPRINGS SAMPLING FIELD SHEET

Entered  
8-12-10  
NN

RA-2010-04-12-29

Location Information

|                                 |                                         |                                                                                   |
|---------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|
| STATION ID: <u>9714</u>         | DATE: <u>04/15/2010</u><br>(MM/DD/YYYY) | TIME (EST): <u>15:29</u> (24 hr)<br>(Final field measurements; start of sampling) |
| SPRING NAME: <u>Mission</u>     | VENT ID: _____                          |                                                                                   |
| WEATHER CONDITIONS (Circle One) | Clear                                   | Partly Cloudy                                                                     |
|                                 | Cloudy                                  | Rain                                                                              |

Water Quality Measurements

|                                                                                                                                             |                          |                                      |                 |             |            |                  |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|-----------------|-------------|------------|------------------|----------------------|
| Secchi Depth: _____ (meters)                                                                                                                | Secchi Visible on Bottom | <input checked="" type="radio"/> Yes | No (Circle One) |             |            |                  |                      |
| Stage (if available): <u>21.30</u> (Feet)                                                                                                   |                          |                                      |                 |             |            |                  |                      |
| Estimated depth in vent from which laboratory samples were collected: _____ (meters)                                                        |                          |                                      |                 |             |            |                  |                      |
| Analytes collected for this site are as listed per the container inventory, including QA/QC samples <input checked="" type="radio"/> Yes No |                          |                                      |                 |             |            |                  |                      |
| Field Measurements (if field measurement result has to be qualified, enter F next to the value below):                                      |                          |                                      |                 |             |            |                  |                      |
| Estimated Depth (meters)                                                                                                                    | Meter Id                 | Measure ment #                       | pH (s.u.)       | D.O. (mg/L) | % D.O.     | Temperature (°C) | Conductivity (uS/cm) |
|                                                                                                                                             | <u>QD00976</u>           | <u>5</u>                             | <u>7.4</u>      | <u>0.25</u> | <u>2.8</u> | <u>22.3</u>      | <u>347</u>           |
|                                                                                                                                             | <u>Q+00970</u>           |                                      |                 |             |            |                  |                      |

Sample Preservation

|                                                                                                                                              |                                      |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|
| Was a new 0.45-micron capsule filter used to collect the final metals and nutrients/anions samples?                                          | <input checked="" type="radio"/> Yes | No (Circle One)          |
| Were all appropriate samples preserved within 15 minutes?                                                                                    | <input checked="" type="radio"/> Yes | No                       |
| Were total nutrient samples preserved with sulfuric acid?                                                                                    | <input checked="" type="radio"/> Yes | No                       |
| Total volume added                                                                                                                           | <u>1</u> (mL)                        | Final pH <u>4</u> (s.u.) |
| Were filtered nutrient samples preserved with sulfuric acid?                                                                                 | <input checked="" type="radio"/> Yes | No                       |
| Total volume added                                                                                                                           | _____ (mL)                           | Final pH _____ (s.u.)    |
| Were total metal samples preserved with nitric acid?                                                                                         | <input checked="" type="radio"/> Yes | No                       |
| Total volume added                                                                                                                           | <u>1</u> (mL)                        | Final pH <u>4</u> (s.u.) |
| Were filtered metal samples preserved with nitric acid?                                                                                      | <input checked="" type="radio"/> Yes | No                       |
| Total volume added                                                                                                                           | _____ (mL)                           | Final pH _____ (s.u.)    |
| If additional bottles for the nutrient or metal samples were preserved, note volume of acid added and final pH for each one in the Comments) |                                      |                          |
| Were all appropriate samples, in accordance with the container inventory, put on wet ice at 4°C?                                             | <input checked="" type="radio"/> Yes | No                       |

COMMENTS:

- unable to get depth reading; flow pushing  
secchi + ledge too high for sonar reader  
- HNO<sub>3</sub>: lot # 1109060 exp: 1/12/20  
- H<sub>2</sub>SO<sub>4</sub> SA-911012 exp: 4/20/10

QA/QC TAKEN? NO

|                                                                          |
|--------------------------------------------------------------------------|
| TIME COLLECTED _____                                                     |
| (Circle One)                                                             |
| EQUIPMENT BLANK                                                          |
| FIELD BLANK                                                              |
| Blanks collected in accordance with<br>Springs Initiative Monitoring SOP |



MISSION SPRING

SPRG1004

15:29

4/15/10

Samplers Signatures (all team members present):

*Laura* *[Signature]*

STATION ID: 9714DATE: 4-15-10TIME (EST): 15:29

## CHEMICAL STABILITY MONITORING

| #  | TIME<br>(00:00) | pH<br>(s.u.) | TEMP.<br>(°C) | SP.<br>COND<br>(uS/cm) | DO<br>(mg/L) | % SAT DO<br>(%) | COMMENTS      |
|----|-----------------|--------------|---------------|------------------------|--------------|-----------------|---------------|
| 1  | 15:21           | 7.39         | 22.46         | 346                    | 0.30         | 3.5             | Begin @ 15:11 |
| 2  | 15:23           | 7.40         | 22.28         | 347                    | 0.28         | 3.3             |               |
| 3  | 15:25           | 7.40         | 22.44         | 346                    | 0.27         | 3.1             |               |
| 4  | 15:27           | 7.41         | 22.40         | 347                    | 0.26         | 3.0             |               |
| 5  | 15:29           | 7.41         | 22.30         | 347                    | 0.25         | 2.8             |               |
| 6  |                 |              |               |                        |              |                 |               |
| 7  |                 |              |               |                        |              |                 |               |
| 8  |                 |              |               |                        |              |                 |               |
| 9  |                 |              |               |                        |              |                 |               |
| 10 |                 |              |               |                        |              |                 |               |
| 11 |                 |              |               |                        |              |                 |               |
| 12 |                 |              |               |                        |              |                 |               |
| 13 |                 |              |               |                        |              |                 |               |
| 14 |                 |              |               |                        |              |                 |               |
| 15 |                 |              |               |                        |              |                 |               |

Meter Id: QD00976-Q100970 Field Measurements Analyzed By: Pm (initials)Field Measurements Recorded By: Pm (initials)

The final three measurements will be evaluated for each of the field parameters listed above (only the values in mg/L for DO) to ensure that representative measurements have been collected for a site. The lowest and highest values for the three measurements must be within 20% when calculating the relative percent difference (RPD). If these values are not within 20%, the final field measurement value will be qualified as being estimated with an F value qualifier.

$$\text{RPD} = \frac{(\text{Highest Value} - \text{Lowest Value})}{(\text{Mean Value of Highest and Lowest Values})} \times 100\%$$