

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SPRINGS SAMPLING FIELD SHEET

on Information

RQ-2011-09-26-28

STATION ID: \_\_\_\_\_ DATE: 10/5/11 (MM/DD/YYYY) TIME (EST): 15:35 (24 hr)  
(Final field measurements; start of sampling)  
SPRING NAME: Bubbling VENT ID: \_\_\_\_\_  
WEATHER CONDITIONS (Circle One) Clear Partly Cloudy Cloudy Rain

Water Quality Measurements

Secchi Depth: 0.5 L (meters) Secchi Visible on Bottom Yes No (Circle One)  
Stage (if available): \_\_\_\_\_ (Feet)  
Estimated depth in vent from which laboratory samples were collected: 0.5 (meters)  
Analytes collected for this site are as listed per the container inventory, including QA/QC samples Yes No  
Field Measurements (if field measurement result has to be qualified, enter F next to the value below):

| Estimated Depth (meters) | Meter Id       | Measurement # | pH (s.u.)  | D.O. (mg/L) | % D.O.      | Temperature (°C) | Conductivity (uS/cm) |
|--------------------------|----------------|---------------|------------|-------------|-------------|------------------|----------------------|
| <u>0.5</u>               | <u>QD03629</u> | <u>5</u>      | <u>7.2</u> | <u>3.94</u> | <u>46.0</u> | <u>23.1</u>      | <u>365</u>           |

Sample Preservation

Is a new 0.45-micron capsule filter used to collect the final metals and nutrients/anions samples? Yes No (Circle One)  
Are all appropriate samples preserved within 15 minutes? Yes No  
Are total nutrient samples preserved with sulfuric acid? Yes No Total volume added 0.5 (mL) Final pH <2 (s.u.)  
Are filtered nutrient samples preserved with sulfuric acid? Yes No Total volume added \_\_\_\_\_ (mL) Final pH \_\_\_\_\_ (s.u.)  
Are total metal samples preserved with nitric acid? Yes No Total volume added 1 (mL) Final pH <2 (s.u.)  
Are filtered metal samples preserved with nitric acid? Yes No Total volume added \_\_\_\_\_ (mL) Final pH \_\_\_\_\_ (s.u.)  
Additional bottles for the nutrient or metal samples were preserved, note volume of acid added and final pH for each one in the Comments)  
Are all appropriate samples, in accordance with the container inventory, put on wet ice at 4°C? Yes No

Comments:

HNO<sub>3</sub> #1110070 exp: 6/23/11  
H<sub>2</sub>SO<sub>4</sub> #106111 exp: 6/2/12

QA/QC TAKEN? NO

TIME COLLECTED \_\_\_\_\_  
(Circle One)  
EQUIPMENT BLANK  
FIELD BLANK  
Blanks collected in accordance with Springs Initiative Monitoring SOP

Plers Signatures (all team members present):

Laura [Signature]

[Signature]

Place  
Barcode  
Label

STATION ID: \_\_\_\_\_

DATE: 10/5/11TIME (EST): 15:35Bubbling Spring

## 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  | 15:27                          | 7.20         | 23.03         | 364                    | 4.08         | 47.7            | begin purging<br>@ 15:17 |
| 2  | 15:29                          | 7.19         | 23.15         | 366                    | 4.06         | 47.5            |                          |
| 3  | 15:31                          | 7.15         | 23.07         | 364                    | 4.03         | 47.0            |                          |
| 4  | 15:33                          | 7.18         | 23.07         | 365                    | 3.99         | 46.6            |                          |
| 5  | 15:35                          | 7.18         | 23.07         | 365                    | 3.94         | 46.0            |                          |
| 6  | <del>15:37</del> <sup>uH</sup> |              |               |                        |              |                 |                          |
| 7  |                                |              |               |                        |              |                 |                          |
| 8  |                                |              |               |                        |              |                 |                          |
| 9  |                                |              |               |                        |              |                 |                          |
| 10 |                                |              |               |                        |              |                 |                          |
| 11 |                                |              |               |                        |              |                 |                          |
| 12 |                                |              |               |                        |              |                 |                          |
| 13 |                                |              |               |                        |              |                 |                          |
| 14 |                                |              |               |                        |              |                 |                          |
| 15 |                                |              |               |                        |              |                 |                          |

Meter Id: QD03629Field Measurements Analyzed By: UH (initials)Field Measurements Recorded By: UH (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.

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

$$\frac{109}{3.985} = 2.2\%$$