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5-31-11
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RQ-2011-01-17-10

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SPRINGS SAMPLING FIELD SHEET

on Information

STATION ID: 9717 DATE: 2/1/11 TIME (EST): 13:57 (24 hr)
(MM/DD/YYYY) (Final field measurements; start of sampling)

SPRING NAME: Big Spring VENT ID: _____

WEATHER CONDITIONS (Circle One) Clear Partly Cloudy Cloudy Rain Windy

Water Quality Measurements

Secchi Depth: 13.4 L (meters) Secchi Visible on Bottom Yes No (Circle One)

Stage (if available): _____ (Feet)

Estimated depth in vent from which laboratory samples were collected: 13.4 (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>13.4</u>	<u>YSI#8</u>	<u>10</u>	<u>7.5</u>	<u>1.03</u>	<u>11.5</u>	<u>20.5</u>	<u>349</u>

Sample Preservation

as a new 0.45-micron capsule filter used to collect the final metals and nutrients/anions samples? Yes No (Circle One)

ere all appropriate samples preserved within 15 minutes? Yes No

ere total nutrient samples preserved with sulfuric acid? Yes No Total volume added 1 (mL) Final pH 4.2 (s.u.)

ere filtered nutrient samples preserved with sulfuric acid? Yes No Total volume added _____ (mL) Final pH _____ (s.u.)

ere total metal samples preserved with nitric acid? Yes No Total volume added 1 (mL) Final pH 4.2 (s.u.)

ere 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)

ere all appropriate samples, in accordance with the container inventory, put on wet ice at 4°C? Yes No

COMMENTS:

- H_2SO_4 from twin towers lab
- HNO_3 lot #1109060 exp: 2/11/20

QA/QC TAKEN? No

TIME COLLECTED _____

(Circle One)

EQUIPMENT BLANK

FIELD BLANK

Blanks collected in accordance with Springs Initiative Monitoring SOP



BIG SPRING

SPRS1101 1ST MAG. SPRING
here

implers Signatures (all team members present):

Laura [Signature]

[Signature]

13:57

2/1/11

STATION ID: 9717DATE: 2/1/11TIME (EST): 13:57

CHEMICAL STABILITY MONITORING

#	TIME (00:00)	pH (s.u.)	TEMP. (°C)	SP. COND (uS/cm)	DO (mg/L)	% SAT DO (%)	COMMENTS
1	13:39	7.45	20.46	349	1.31	14.6	Began purging @ 13:29
2	13:41	7.47	20.46	349	1.23	13.6	
3	13:43	7.50	20.47	349	1.17	13.0	
4	13:45	7.49	20.46	349	1.13	12.5	
5	13:47	7.50	20.46	349	1.10	12.2	
6	13:49	7.47.50	20.48	349	1.07	11.9	
7	13:51	7.50	20.48	349	1.07	11.9	
8	13:53	7.50	20.48	349	1.04	11.5	
9	13:55	7.49	20.49	349	1.03	11.4	
10	13:57	7.48	20.48	349	1.03	11.5	
11							
12							
13							
14							
15							

Meter Id: YSI #8Field 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.

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