

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SPRINGS SAMPLING FIELD SHEET

Entered
2-25-11
mm

RA-2010-11-15-52

on Information

STATION ID: _____ DATE: 11/18/10 TIME (EST): 13:38 (24 hr)
(MM/DD/YYYY) (Final field measurements; start of sampling)

SPRING NAME: Manatee Sanctuary Spring VENT ID: _____

WEATHER CONDITIONS (Circle One) Clear Partly Cloudy Cloudy Rain

Water Quality Measurements

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

Stage (if available): _____ (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 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>QD00976</u> <u>QD00970</u>	<u>5</u>	<u>7.8</u>	<u>3.91</u>	<u>46.2</u>	<u>23.5</u>	<u>888</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)

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 4.2 (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 _____ (mL) Final pH _____ (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: -manatee zone: no swimming/no boating-
sampled from shore; so could not get depth
-no boil present i sampled close to high
tide: sampled at GPS points

QA/QC TAKEN? No

TIME COLLECTED _____

(Circle One)

EQUIPMENT BLANK

FIELD BLANK

Blanks collected in accordance with
Springs Initiative Monitoring SOP

Implementers Signatures (all team members present):

Laura

[Signature]

Place
Barcode
Label
Here

STATION ID: _____

DATE: 11/18/10TIME (EST): 13:38

CHEMICAL STABILITY MONITORING

#	TIME (00:00)	pH (s.u.)	TEMP. (°C)	SP. COND (uS/cm)	DO (mg/L)	% SAT DO (%)	COMMENTS
1	13:30	7.79	23.47	871	3.93	46.4	Began purging @ 13:20
2	13:32	7.79	23.48	866	3.93	46.4	
3	13:34	7.79	23.46	874	3.93	46.3	
4	13:36	7.79	23.48	877	3.91	46.1	
5	13:38	7.79	23.48	888	3.91	46.2	
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Meter Id: QD00976-Q+00970Field 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.

14
881

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