



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Blue Hole Spring @ Caverns State Park

Date: 10/06/2018
(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0009

WBID: 51Z

Latitude: 30.8201838

County: Jackson

ORG ID: 21FTLHR

(Decimal Degrees)

Longitude: 85.2452327

Receiving Body of Water: Chipola River

(Decimal Degrees)

RQ-2018- 10-08-19

Sampling Team Members

Ben Harden
Jade Burtchett

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other

Depth Measured with
Equipment ID

Collection Method

☐ Wading ☐ Canoe/Kayak
☐ From Shore ☐ Electric Motor
☒ Other Dock ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# 15417

Matrix: Fresh / Marine / DI

Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1045	4.0	0.3	1.0	8.02	94.4	7.53	0.16	331.0	23.5
EST	1046		3.5		1.53	16.7	7.19	0.16	338.4	20.0

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4	548101020	4/19	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☐ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-PW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here
(If Available)

Notes:

A-b
Group A

Field/WIN ID →



G2TLHR0009

Location ↓



BLUE HOLE SPRING @ CAVERN

Signature:

[Signature]

Date:

10/8/2018

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: 154177

RQ-

Project: SMP2018

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 6/18

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J. Burkett	10/8/18	751	20.7	758.1	8.97	8.96	99.8	-	100	P/F	G/F
ICV			801	19.8	758.1	9.13	9.01	98.8	-	-	P/F	G/F
CCV	Ben Harden		1511	22.1	757.2	7.93	8.09	101.6	-	-	P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	J. Burkett	10/8/18	753	180621C	07/19	1000	1000	P/F	D/F
ICV			803	1805F81	5/20	100	101	P/F	L/F
CCV	Ben Harden		1573	180621C	07/19	1000	1003	P/F	L/F
CCV			1579	1805F81	05/20	100	101	P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J. Burkett	10/8/18	755	180621C	07/20	7.01	26.0	7.02	-23.3	P/F	G/F
Calibr.			757	180510B	05/19	4.01	26.3	4.00	151.3	P/F	G/F
Calibr.			759	180403D	10/19	10.06	26.1	10.06	-181.1	P/F	G/F
ICV			805	180403D	10/19	10.05	26.5	10.07	-185.0	P/F	G/F
CCV	Ben Harden		1515	180510B	5/19	4.00	21.8	4.03	147.7	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 157.8, slope from 4 to 7 174.6 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 7/18

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	J. Burkett	10/8/18	749	0.00	0.00	P/F	G/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: TLH-ROC

Requester: Michael Eckles

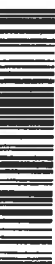
Field Report Prepared By: Ben Harden

Project ID: SMP

Collected By: Sade Butcher

Sampling Agency: Ecosystem

8034



Field/WIN ID →



Location ↓

BLUE HOLE SPRING @ CAVERN

☐ dd ☐ dms Longitude

Field/WIN ID →



Location ↓

MARSHALL CREEK @ SR2

☐ dd ☐ dms Longitude

Field/WIN ID →



Location ↓

RUSS MILL CREEK @ UNION RD

☐ dd ☐ dms Longitude

Field/WIN ID →



Location ↓

CHIPOLA RIVER @ MAGNOLIA R

☐ dd ☐ dms Longitude

☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Composite end	Bottle Group(s) (See pg 2) A
		Matrix (type, e.g., Salt, Fresh, etc)				
		Diss. Oxygen				
		Sample Depth				
		Temp (C)	23.5	pH 7.53	Sample Depth 0.3	Bottle Group(s) (See pg 2) A
		Salinity (ppt)	0.16	Comments		

☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Composite end	Bottle Group(s) (See pg 2) A
		Matrix (type, e.g., Salt, Fresh, etc)				
		Diss. Oxygen				
		Sample Depth				
		Temp (C)	23.3	pH 7.7	Sample Depth 0.3	Bottle Group(s) (See pg 2) A
		Salinity (ppt)	0.1	Comments		

☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Composite end	Bottle Group(s) (See pg 2) A
		Matrix (type, e.g., Salt, Fresh, etc)				
		Diss. Oxygen				
		Sample Depth				
		Temp (C)	23.2	pH 7.91	Sample Depth 0.15	Bottle Group(s) (See pg 2) A
		Salinity (ppt)	0.13	Comments		

☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Composite end	Bottle Group(s) (See pg 2) A
		Matrix (type, e.g., Salt, Fresh, etc)				
		Diss. Oxygen				
		Sample Depth				
		Temp (C)	23.9	pH 7.98	Sample Depth 0.15	Bottle Group(s) (See pg 2) A
		Salinity (ppt)	0.13	Comments		

Relinquished By: Ben Harden	Date/Time: 10/8/2018	Shipping Method: Hand Delivered	Number of Coolers Shipped:	Received By: J.B.	Date/Time: 10/8/18 3:03
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Group: A	Bottle Type: P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab
CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab
ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
SA 8/10/020					
Group: A	Bottle Type: P-125ML	# of Bottles: 5	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
W-PO4-F					
Group: B	Bottle Type: P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: B	Bottle Type: BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
CHLSUITE-W					
Group: B	Bottle Type: P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab

Group: C	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab