

Site: Citrus Blue SpringDate: 6/23/10Investigator: L. Hestor; P. Madden

Transect (m)	Point 1=right 9=left	Algal Thickness (0 - 5)	Algae Type	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness (0 - 5)	Algae Type	Canopy Cover		
0	1	6	(F) D O	0/96	60	1	6	(F) D O	0/96		
	2	6	(F) D O								
	3	6	(F) D O								
	4	6	(F) D O								
	5	6	(F) D O								
	6	6	(F) D O								
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								
10	1	6	(F) D O	0/96	70	1	6	(F) D O	32/96		
	2	6	(F) D O								
	3	6	(F) D O								
	4	6	(F) D O								
	5	6	(F) D O								
	6	6	(F) D O								
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								
20	1	6	(F) D O	0/96	80	1	6	(F) D O	96/96		
	2	6	(F) D O								
	3	6	(F) D O								
	4	6	(F) D O								
	5	6	(F) D O								
	6	6	(F) D O								
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								
30	1	6	(F) D O	0/96	90	1	6	(F) D O	90/96		
	2	6	(F) D O								
	3	6	(F) D O								
	4	6	(F) D O								
	5	6	(F) D O								
	6	6	(F) D O								
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								
40	1	6	(F) D O	0/96	100	1	6	(F) D O	33/96		
	2	6	(F) D O								
	3	6	(F) D O								
	4	6	(F) D O								
	5	6	(F) D O								
	6	6	(F) D O								
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								
50	1	6	(F) D O	0/96	Algal Thickness Rank						
	2	6	(F) D O		0	1	2	3	4	5	6
	3	6	(F) D O		0 mm	<0.5 mm	0.5 - 1 mm	>1 to <6 mm	6 - 20 mm	2-10 cm	>10 cm
	4	6	(F) D O		Record an "X" for points where algae is not sampled because the substrate cannot be seen or reached with the hand.						
	5	6	(F) D O		Algae Type: F = Filamentous D = Diatoms O = Other						
	6	6	(F) D O		Record canopy cover as the number of small densimeter squares (out of 96) that HAVE TREE COVER. Measure while facing upstream.						
	7	6	(F) D O								
	8	6	(F) D O								
	9	6	(F) D O								

Notes: -transect 0-50: very thick algal mat on ground
many snails present in beginning of run

Spring - spring run depth: 1-4 ft.
run width: 20 ft - 30 ft

hydrolab measurements on back →

hydrolab measurements

Temp: 22.92°C

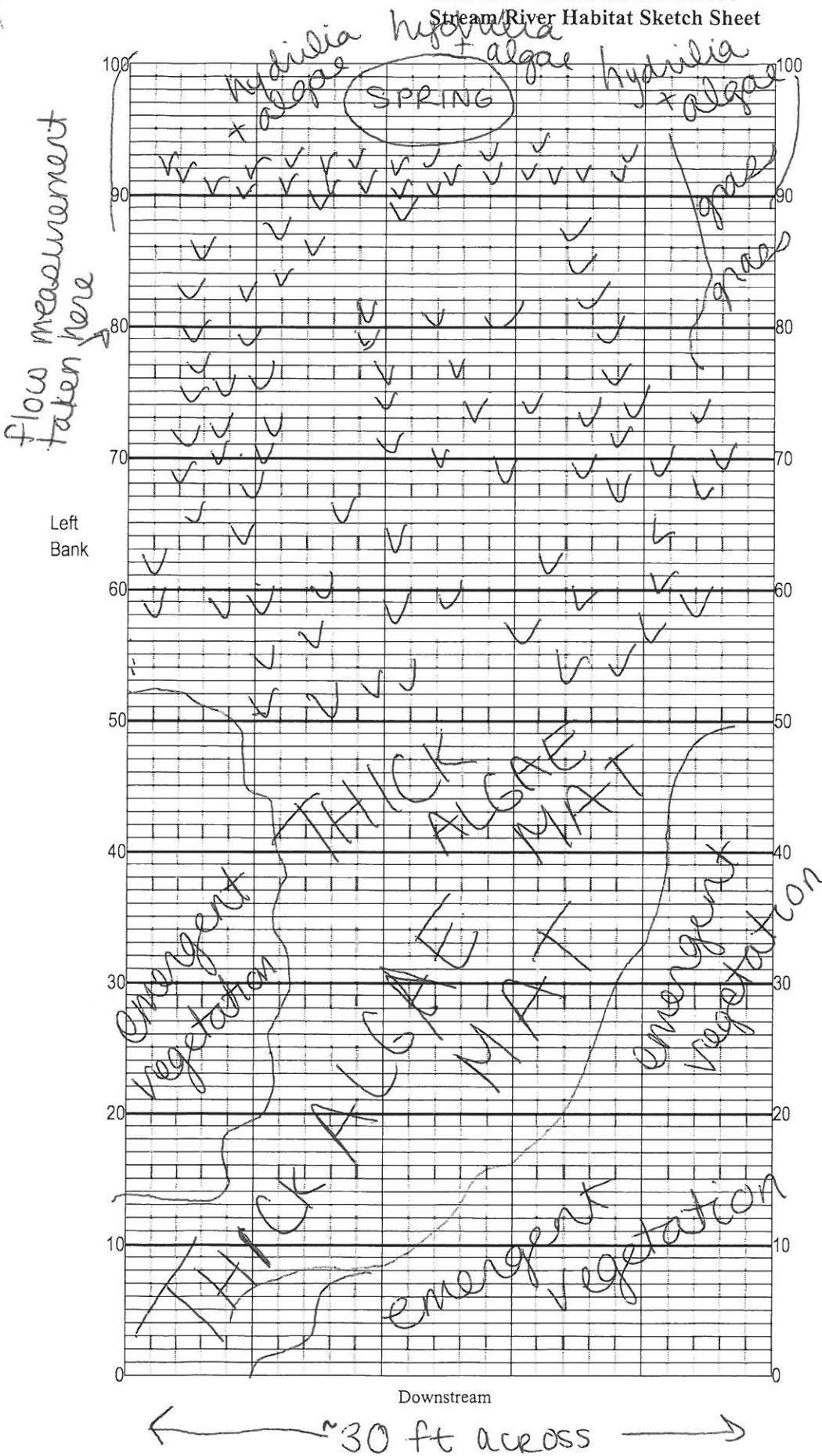
SpC: 351

DO: 2.93

% DO: 34.3

pH: 7.35

DEP-SOP-001/01 Form FD 9000-4
Stream/River Habitat Sketch Sheet



Substrates: Code key, draw proportionate habitat abundance.



Snags



Roots/undercut banks



Leaf Packs (or mats)



Aquatic Macrophytes



grass with some algae



Velocity:

Note where velocity measures were taken.

Habitat Smothering:

Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:

Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:

Note areas (on map) where natural vegetation is altered or eliminated.

Citrus Blue Spring

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-underwater photos taken

Length of grid represents 100 ft of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Revision Date: September 10, 2008

Citrus Blue
Spring
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31 ft from
bank to bank
(~~0.00~~ ⁴feet from
(4 feet from
bank/REW to
shore tie-up pt).

$$\frac{31}{20} = 1.55 \text{ interval}$$

L. Hester;
P. Madden

Ang Coef	Dist from init point	Width	Depth	Observation Depth (0.6)	Observation Depth Bottom (0.8)	Observation Depth Top (0.2)	Velocity		Adj for horiz angle or	Area	Discharge
							At point	Mean in vert			
REW	0.0										
1.00	4.00	0.00	.7	0.00			.06		0.000	0.00	0.00
					0.00						
1.00	5.55	0.00	.8	0.00			.08		0.000	0.00	0.00
					0.00						
1.00	7.10	0.00	1	0.00			.06		0.000	0.00	0.00
					0.00						
1.00	8.65	0.00	.85	0.00			.03		0.000	0.00	0.00
					0.00						
1.00	10.20	0.00	.8	0.00			.54		0.000	0.00	0.00
					0.00						
1.00	11.75	0.00	1.1	0.00			.45		0.000	0.00	0.00
					0.00						
1.00	13.30	0.00	1.15	0.00			.44		0.000	0.00	0.00
					0.00						
1.00	14.85	0.00	1.1	0.00			.57		0.000	0.00	0.00
					0.00						
1.00	16.40	0.00	1	0.00			.64		0.000	0.00	0.00
					0.00						
1.00	17.95	0.00	.95	0.00			.65		0.000	0.00	0.00
					0.00						
1.00	19.50	0.00	.9	0.00			.65		0.000	0.00	0.00
					0.00						
1.00	21.05	0.00	1.05	0.00			.69		0.000	0.00	0.00
					0.00						
1.00	22.60	0.00	1.1	0.00			.79		0.000	0.00	0.00
					0.00						
1.00	24.15	0.00	1.4	0.00			.75		0.000	0.00	0.00
					0.00						
1.00	25.70	0.00	1.5	0.00			.59		0.000	0.00	0.000
					0.00						
1.00	27.25	0.00	1.2	0.00			.63		0.000	0.00	0.000
					0.00						
1.00	28.80	0.00	.8	0.00			.55		0.000	0.00	0.000
					0.00						
1.00	30.35	0.00	.6	0.00			.31		0.000	0.00	0.000
					0.00						
1.00	31.90	0.00	.2	0.00			.09		0.000	0.00	0.00

Form FD 9000-11: DISCHARGE MEASUREMENT NOTES - (BASED ON USGS FORM 9-275-7, MAY 1971)

(WATERBODY: Citrus Blue Spring)

Measurement No. _____ Date 6/23/10
 Recorded by _____ Project _____
 Checked by _____ Station No. _____
 Stream Description: _____
 Party: _____

Width 0.00 ft Area 0.00 ft² Vel. _____ ft/sec G.H. _____ Disch. 0.00 ft³/sec

Transect Location: Latitude: N 28° 58.166' Longitude: W 082° 18.861'

Method _____ No. secs. _____ G.H. change _____ in _____ hrs. Susp. _____
 Method coef. _____ Hor. angle coef. _____ Susp. Coef. _____ Meter No. _____

GAGE READINGS					Type of Meter
Time		Recorder	Inside	Outside	Marsh-McBirney Flo-Mate 2000
Begin	15:35	1.74			Meter ID. 2004494
End	16:15				Date rated _____ for rod, other.
					Meter _____ ft. above bottom of weight.
					Spin before measurement _____ and
					after _____
					Measur. Plots _____ % diff. from rating
					Wading, cable, ice, boat, upstr., downstr.,
					side bridge _____ feet, mile, above,
					below gage, and _____
					Check-bar, found _____
					changed to _____ at _____
					Correct _____
					Levels obtained _____
Weighted M.G.H.					
G.H. Correction					
Correct M.G.H.					

Measurement rated ☐ excellent (2%), ☐ good (5%), ☐ fair (8%), ☐ poor (over 8%), based
 on following conditions: Cross section

Flow _____ Weather Clear ^{FM} partly cloudy ~50% cloud cover
 Other _____ Air Temp. _____ °F @ _____
 Gage _____ Water Temp. _____ °F @ _____
 Record moved _____ Intake flushed (U/L) _____

Control Calibrated before site.

Remarks _____

G.H. of zero flow _____ ft.