

hydro lab measurements on back →

Form FD 9000-25 (modified) FDEP Rapid Periphyton Survey April 2009											
Site: <u>Little Gum (Gum Spring #1)</u>					Date: <u>6/16/10</u>		Investigator: <u>Laura Hester</u>				
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	77	60	1		F D O			
	2	0	F D O			2		F D O			
	3	4	F D O			3		F D O			
	4	4	F D O			4		F D O			
	5	4	F D O	5			F D O				
	6	1	F D O	6			F D O				
	7	0.5	F D O	7			F D O				
	8	0.5	F D O	8			F D O				
	9	6	F D O	9			F D O				
10	1	5	F D O	87 85/96 96	70	1		F D O			
	2	5	F D O			2		F D O			
	3	5	F D O			3		F D O			
	4	1	F D O			4		F D O			
	5	5	F D O			5		F D O			
	6	0	F D O			6		F D O			
	7	5	F D O			7		F D O			
	8	6	F D O			8		F D O			
	9	6	F D O			9		F D O			
20	1	5	F D O	94/96	80	1		F D O			
	2	0	F D O			2		F D O			
	3	1	F D O			3		F D O			
	4	1	F D O			4		F D O			
	5	5	F D O			5		F D O			
	6	0	F D O			6		F D O			
	7	5	F D O			7		F D O			
	8	4	F D O			8		F D O			
	9	1	F D O			9		F D O			
30	1	0	F D O	0/96	90	1		F D O			
	2	6	F D O			2		F D O			
	3	5	F D O			3		F D O			
	4	0	F D O			4		F D O			
	5	0	F D O			5		F D O			
	6	4	F D O			6		F D O			
	7	1	F D O			7		F D O			
	8	6	F D O			8		F D O			
	9	6	F D O			9		F D O			
40	1	6	F D O	0/96	100	1		F D O			
	2	0	F D O			2		F D O			
	3	3	F D O			3		F D O			
	4	5	F D O			4		F D O			
	5	0	F D O			5		F D O			
	6	0	F D O			6		F D O			
	7	4	F D O			7		F D O			
	8	6	F D O			8		F D O			
	9	6	F D O			9		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	0	F D O		0 mm	<0.5 mm or slimy	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	0	F D O		Algae Type: F = Filamentous D = Diatoms O = Other						
	6	0	F D O		Record canopy cover as the number of small densiometer squares (out of 96) that HAVE TREE COVER. Measure while facing upstream.						
	7	1	F D O								
	8	5	F D O								
	9	6	F D O								

Notes: Avg Depth: 12"
Avg Width: 28"
- only 6 transects could be done

before run merged with head spring run (Gum Spring Main)
- many snails present

H₂O₂ chem

Temp: 23.23 °C

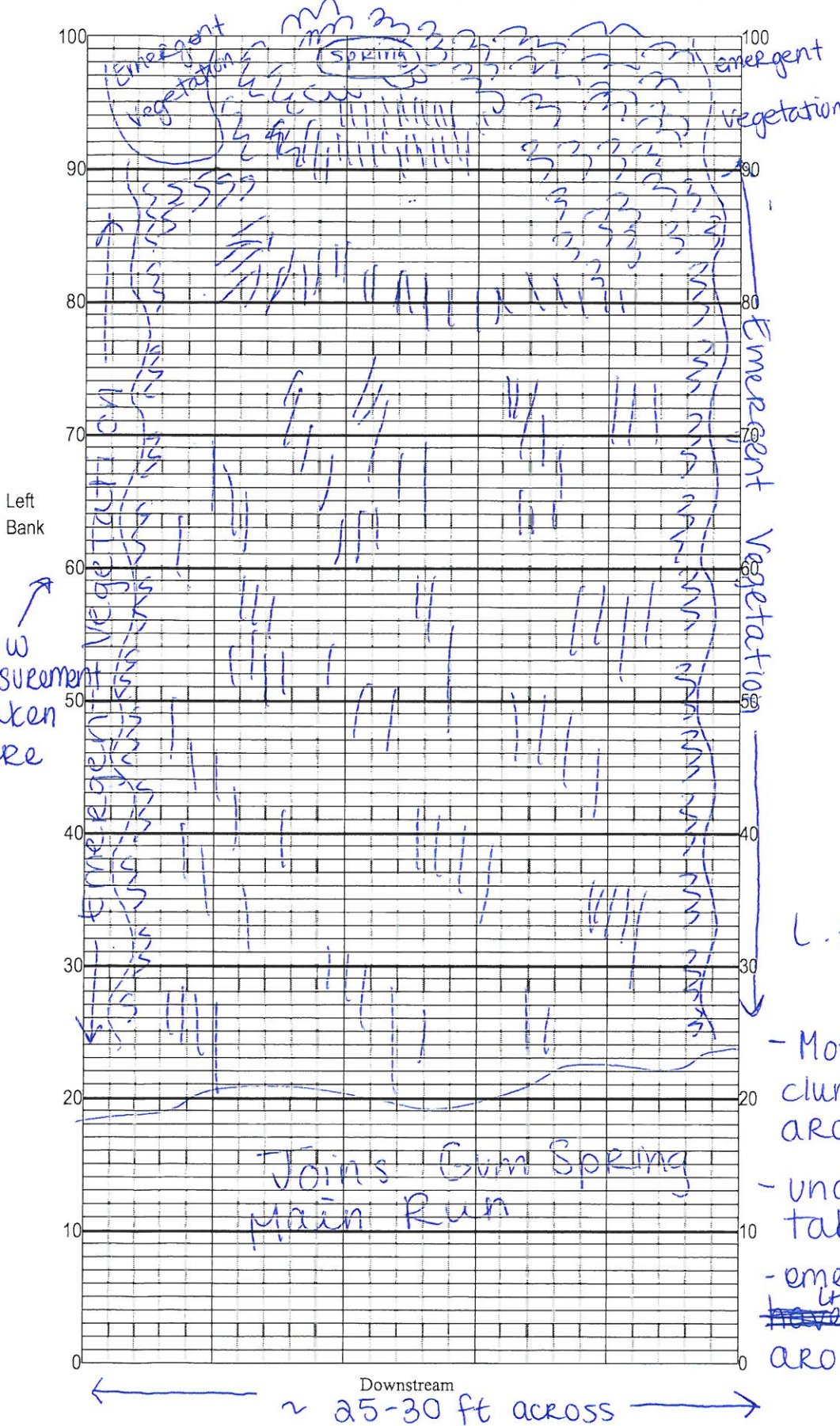
SPC: ~~0.350~~^{0.350} mS/cm

DO: 3.36 mg/L (39.50%)

pH: 7.27

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

Gum Springs #1
6/16/10



Substrates: Code key, draw proportionate habitat abundance.

☐ Snags

☐ Roots/undercut banks

☐ Leaf Packs (or mats)

☐ Aquatic Macrophytes

☒ grass with algae

☒ algae mat

☐

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.

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- Most grass in run has clumps of algae gathered around base of plant

- underwater photos taken

- emergent vegetation ~~have~~ has algae mats around base of plants

Gum Spring # 1
6/16/10

L. Hester; P. Madden

* 28 ft across
bank - bank

* tree - REW: 1 ft.

* $\frac{27}{20} = 1.35$ ft
interval

High flow
- to get 10
Readings in high flow,
measurement interval
changed to ~~0.09~~⁴
0.9 ft

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	1.00	0.00	<0.2	0.00					0.000	0.00	0.00
					0.00						
						0.00					
1.00	2.35	0.00	<0.2	0.00					0.000	0.00	0.00
					0.00						
						0.00					
1.00	3.7	0.00	0.4	0.00			0.0		0.000	0.00	0.00
					0.00						
						0.00					
1.00	5.05	0.00	0.6	0.00			0.03		0.000	0.00	0.00
					0.00						
						0.00					
1.00	6.40	0.00	0.9	0.00			0.04		0.000	0.00	0.00
					0.00						
						0.00					
1.00	7.75	0.00	0.9	0.00			0.02		0.000	0.00	0.00
					0.00						
						0.00					
1.00	9.10	0.00	1.3	0.00			0.01		0.000	0.00	0.00
					0.00						
						0.00					
1.00	10.45	0.00	1.5	0.00			0.02		0.000	0.00	0.00
					0.00						
						0.00					
1.00	11.80	0.00	1.65	0.00			0.45		0.000	0.00	0.00
					0.00						
						0.00					
1.00	12.70	0.00	1.65	0.00			0.68		0.000	0.00	0.00
	13.15				0.00						
						0.00					
1.00	13.60	0.00	1.70	0.00			0.95		0.000	0.00	0.00
					0.00						
						0.00					
1.00	14.50	0.00	1.75	0.00			1.05		0.000	0.00	0.00
					0.00						
						0.00					
1.00	15.40	0.00	1.80	0.00			0.99		0.000	0.00	0.00
					0.00						
						0.00					
1.00	16.30	0.00	1.80	0.00			0.85		0.000	0.00	0.00
					0.00						
						0.00					
1.00	17.20	0.00	1.70	0.00			0.63		0.000	0.00	0.000
					0.00						
						0.00					
1.00	18.10	0.00	1.65	0.00			0.54		0.000	0.00	0.000
					0.00						
						0.00					
1.00	19.00	0.00	1.60	0.00			0.44		0.000	0.00	0.000
					0.00						
						0.00					
1.00	19.90	0.00	1.60	0.00			0.43		0.000	0.00	0.000
					0.00						
						0.00					
1.00	20.80	0.00	<0.2	0.00					0.000	0.00	0.00
			>0.4								

