

Site: Wilson Head SpringDate: 6/24/10Investigator: L. Hester, 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	0	F D O	96/96	60	1	0	F D O	96/96		
	2	0	F D O			2	5	(F) D O			
	3	0	F D O			3	5	(F) D O			
	4	5	(F) D O			4	0	F D O			
	5	0	F D O			5	6	(F) D O			
	6	0	F D O			6	6	(F) D O			
	7	0	F D O			7	5	(F) D O			
	8	0	F D O			8	5	(F) D O			
	9	0	F D O			9	1	F D O			
10	1	0	F D O	96/96	70	1	5	(F) D O	96/96		
	2	0	F D O			2	6	(F) D O			
	3	0	F D O			3	1	F D O			
	4	0	F D O			4	5	(F) D O			
	5	0	F D O			5	6	(F) D O			
	6	4	(F) D O			6	6	(F) D O			
	7	0	F D O			7	5	(F) D O			
	8	0	F D O			8	5	(F) D O			
	9	4	(F) D O			9	7	(F) D O			
20	1	4	(F) D O	96/96	80	1	5	(F) D O	95/96		
	2	0	F D O			2	5	(F) D O			
	3	0	F D O			3	5	(F) D O			
	4	0	F D O			4	5	(F) D O			
	5	4	(F) D O			5	5	(F) D O			
	6	0	F D O			6	5	(F) D O			
	7	0	F D O			7	6	(F) D O			
	8	0	F D O			8	6	(F) D O			
	9	0	F D O			9	6	(F) D O			
30	1	4	(F) D O	96/96	90	1	6	(F) D O	96/96		
	2	0	F D O			2	5	(F) D O			
	3	0	F D O			3	6	(F) D O			
	4	0	(F) D O			4	5	(F) D O			
	5	0	F D O			5	5	(F) D O			
	6	4	(F) D O			6	5	(F) D O			
	7	4	(F) D O			7	5	(F) D O			
	8	4	(F) D O			8	6	(F) D O			
	9	4	(F) D O			9	6	(F) D O			
upstream of bottleneck 40	1	5	(F) D O	96/96	100	1	0	F D O	96/96		
	2	5	(F) D O			2	0	F D O			
	3	5	(F) D O			3	1	(F) D O			
	4	5	(F) D O			4	6	(F) D O			
	5	5	(F) D O			5	5	(F) D O			
	6	4	(F) D O			6	0	F D O			
	7	4	(F) D O			7	0	F D O			
	8	0	F D O			8	6	(F) D O			
	9	0	F D O			9	5	(F) D O			
natural palm area 50 wider	1	6	(F) D O	96/96	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 or slimy	0.5 - 1 mm	>1 to <6 mm	6 - 20 mm	2-10 cm	>10 cm
	4	5	(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	5	(F) D O		Algae Type: F = Filamentous D = Diatoms O = Other						
	6	1	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	0	F D O								
	8	0	F D O								
	9	0	F D O								

Notes: many dead snails; few live ones-avg depth: 0.5 ft-avg width: 10-15 ft.

hydrolab measurements on back →

Hydro lab measurements

Temp: 23.61

SpCond: 408

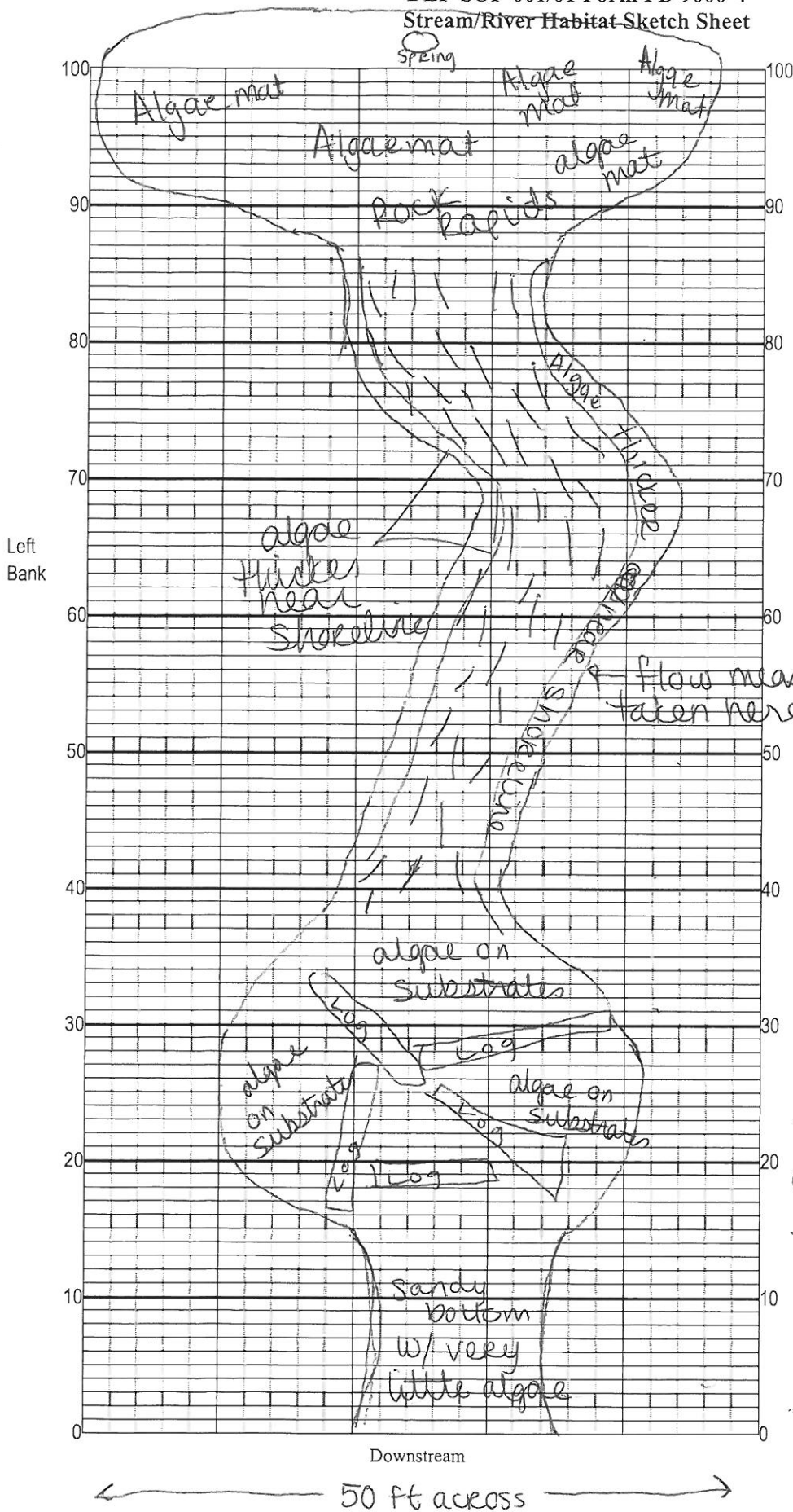
D.O: 3.96

pH: 6.88

% DO: 46.7

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

Wilson Head Spring
6/24/10



Substrates: Code key, draw proportionate habitat abundance.

- ☐ Snags
- ☐ Roots/undercut banks
- ☐ Leaf Packs (or mats)
- ☐ Aquatic Macrophytes
- ☒ || grass w/ 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.

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- Natural Vegetation on both sides of banks
- Natural Vegetation around spring head area
- underwater photos taken

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

Revision Date: September 10, 2008

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Spring

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⁴
10.5

(8 ft from tree)
to REW

12 ft bank to
bank

$$\frac{12}{20} = 0.6 \text{ interval}$$

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	10.5	0.00	0.0	0.00					0.000	0.00	0.00
					0.00						
			⁴ 1.5	0.00		0.00			0.000	0.00	0.00
1.00	11.1	0.00	0.15	0.00	0.00						
						0.00					
1.00	11.7	0.00	0.3	0.00			0.30		0.000	0.00	0.00
					0.00						
1.00	12.3	0.00	0.45	0.00			0.37		0.000	0.00	0.00
					0.00						
						0.00					
1.00	12.9	0.00	0.45	0.00			0.39		0.000	0.00	0.00
					0.00						
						0.00					
1.00	13.5	0.00	0.40	0.00			0.76		0.000	0.00	0.00
					0.00						
						0.00					
1.00	14.1	0.00	0.35	0.00			0.69		0.000	0.00	0.00
					0.00						
						0.00					
1.00	14.7	0.00	0.30	0.00			0.16		0.000	0.00	0.00
					0.00						
						0.00					
1.00	15.3	0.00	0.45	0.00			0.74		0.000	0.00	0.00
					0.00						
						0.00					
1.00	15.9	0.00	0.65	0.00			0.95		0.000	0.00	0.00
					0.00						
						0.00					
1.00	16.5	0.00	0.65	0.00			0.84		0.000	0.00	0.00
					0.00						
						0.00					
1.00	17.1	0.00	0.50	0.00			0.50		0.000	0.00	0.00
					0.00						
						0.00					
1.00	17.7	0.00	0.65	0.00			0.87		0.000	0.00	0.00
					0.00						
						0.00					
1.00	18.3	0.00	0.55	0.00			1.05		0.000	0.00	0.00
					0.00						
						0.00					
1.00	18.9	0.00	0.55	0.00			0.88		0.000	0.00	0.000
					0.00						
						0.00					
1.00	19.5	0.00	0.55	0.00			0.58		0.000	0.00	0.000
					0.00						
						0.00					
1.00	20.1	0.00	0.60	0.00			0.43		0.000	0.00	0.000
					0.00						
						0.00					
1.00	20.7	0.00	0.5	0.00			0.15		0.000	0.00	0.000
					0.00						
						0.00					
1.00	21.3	0.00	0.0	0.00					0.000	0.00	0.00

