

(downstream of spg vent).

hydrolab rdgs on back →

Form FD 9000-25 (modified) FDEP Rapid Periphyton Survey April 2009											
Site: Canal 485 Spring 1B					Date: 6/18/10		Investigator: 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		F D O		60	1	5	(F) D O	81/96		
	2		F D O								
	3		F D O								
	4		F D O								
	5		F D O								
	6		F D O								
	7		F D O								
	8		F D O								
	9		F D O								
10	1		F D O		70	1	5	(F) D O	46/96		
	2		F D O								
	3		F D O								
	4		F D O								
	5		F D O								
	6		F D O								
	7		F D O								
	8		F D O								
	9		F D O								
20	1		F D O		80	1	5	(F) D O	96/96		
	2		F D O								
	3		F D O								
	4		F D O								
	5		F D O								
	6		F D O								
	7		F D O								
	8		F D O								
	9		F D O								
30	1		F D O		90	1	5	(F) D O	89/96		
	2		F D O								
	3		F D O								
	4		F D O								
	5		F D O								
	6		F D O								
	7		F D O								
	8		F D O								
	9		F D O								
40	1		F D O		100	1	5	(F) D O	94/96		
	2		F D O								
	3		F D O								
	4		F D O								
	5		F D O								
	6		F D O								
	7		F D O								
	8		F D O								
	9		F D O								
50	1	6	(F) D O	92/96	Algal Thickness Rank						
	2	5	(F) D O		0	1	2	3	4	5	6
	3	5	(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	5	(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	5	(F) D O								
	8	5	(F) D O								
	9	5	(F) D O								

Notes: - only 50 transects done - canal ends and opens up into wide pool area used for boats (small canal heads off to right after pool area)
 - lots of duckweed + hydrilla
 - avn width ~10ft - avn depth ~1-1.5 ft

hydrolab readings

temp: 24.15°

SpC: 450

DO: 1.79

% DO: 21.4

pH: 7.22

(upstream)

Notes on back →

Form FD 9000-25 (modified)

FDEP Rapid Periphyton Survey

April 2009

Site: Canal 485A Spring 1B

Date: 6/18/10

Investigator: 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		F D O		60	1	0	F D O			
	2		F D O			2	0	F D O			
	3		F D O			3	4	F D O			
	4		F D O			4	0	F D O			
	5		F D O			5	0	F D O	62/96		
	6		F D O			6	0	F D O			
	7		F D O			7	3	F D O			
	8		F D O			8	0	F D O			
	9		F D O			9	1	F D O			
10	1		F D O		70	1	6	F D O			
	2		F D O			2	5	F D O			
	3		F D O			3	5	F D O			
	4		F D O			4	6	F D O			
	5		F D O			5	4	F D O	52/96		
	6		F D O			6	4	F D O			
	7		F D O			7	0	F D O			
	8		F D O			8	0	F D O			
	9		F D O			9	4	F D O			
20	1		F D O		80	1	6	F D O			
	2		F D O			2	5	F D O			
	3		F D O			3	5	F D O			
	4		F D O			4	5	F D O			
	5		F D O			5	5	F D O	8/96		
	6		F D O			6	6	F D O			
	7		F D O			7	6	F D O			
	8		F D O			8	6	F D O			
	9		F D O			9	4	F D O			
30	1	5	F D O		90	1	5	F D O			
	2	0	F D O			2	5	F D O			
	3	4	F D O			3	5	F D O			
	4	5	F D O			4	5	F D O			
	5	4	F D O	90/96		5	0	F D O	23/96		
	6	4	F D O			6	0	F D O			
	7	5	F D O			7	0	F D O			
	8	6	F D O			8	0	F D O			
	9	5	F D O			9	0	F D O			
40	1	5	F D O		100	1	5	F D O			
	2	0	F D O			2	5	F D O			
	3	6	F D O			3	5	F D O			
	4	5	F D O			4	5	F D O			
	5	6	F D O	59/96		5	5	F D O	32/96		
	6	5	F D O			6	5	F D O			
	7	5	F D O			7	5	F D O			
	8	5	F D O			8	5	F D O			
	9	5	F D O			9	5	F D O			
50	1	0	F D O		Algal Thickness Rank						
	2	0	F D O		0	1	2	3	4	5	6
	3	5	F D O		0 mm rough	<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	94/96	Algae Type: F = Filamentous D = Diatoms O = Other						
	6	4	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	4	F D O								
	9	0	F D O								

Notes:

-water level very low
-avg width: 10 ft.
-avg depth: 0.5 ft.

- Canal 485A Spring 1B

- RPS done upstream of Canal 485A Spring 1B
Vent

- 100m of this RPS goes just a few meters
short of beginning of canal.

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

Canal 485A Spring 1B

6/18/10

L. Hester; P. Madden

Substrates: Code key, draw proportionate habitat abundance.

☐ Snags

☐ Roots/undercut banks

☐ Leaf Packs (or mats)

☐ Aquatic Macrophytes

☒ *hydrilla* clumps

☒ *hydrilla* ^{thick} & thickly

☐ Coated 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.

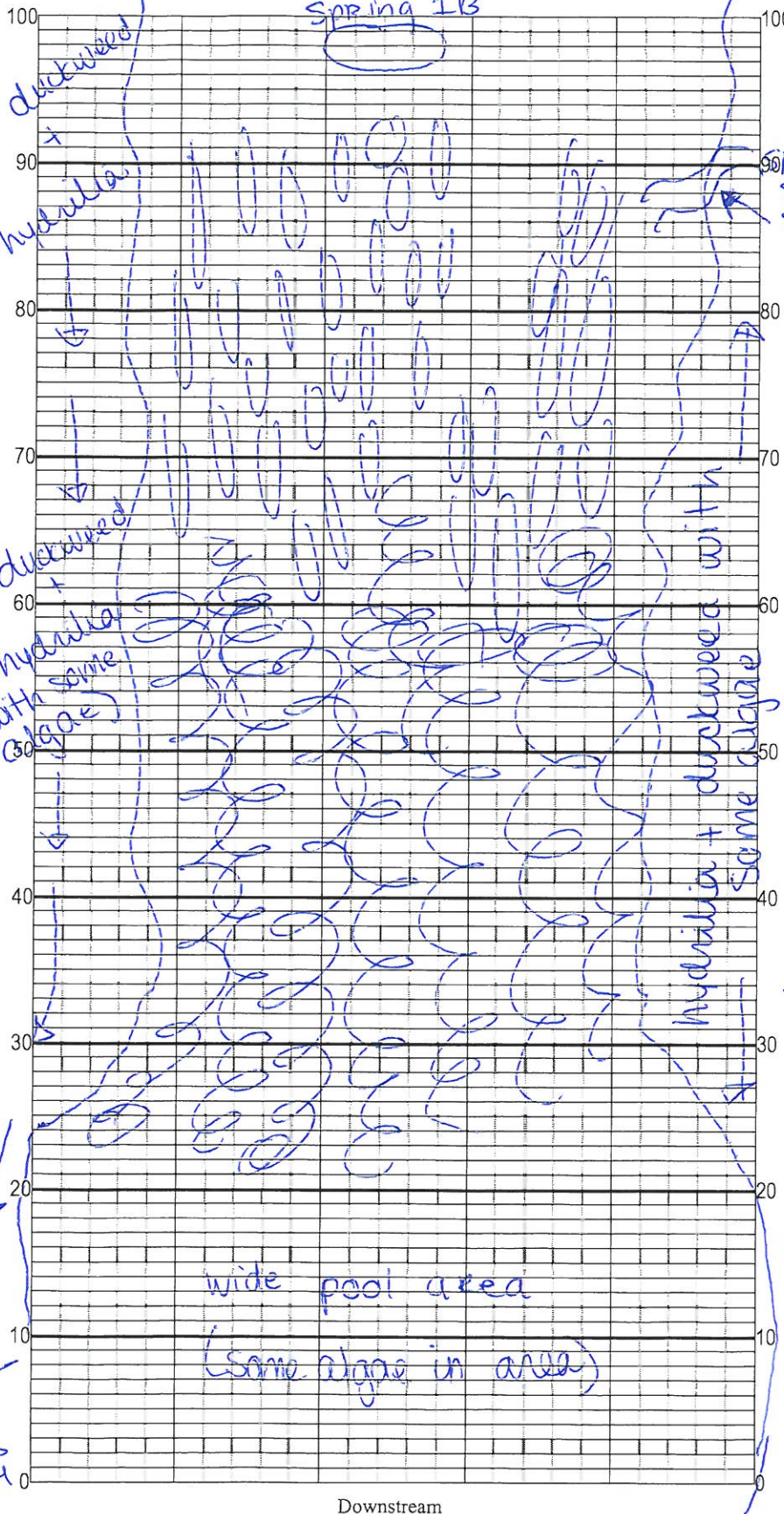
Houses with boat docks along bank

Houses with boat docks along bank

- spring is located halfway down canal
Other springs upstream
River very low - locals said canal is unusually low

- small springs + seeps are all along spring run

canal heads off this way



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

Revision Date: September 10, 2008

- canal about 10ft wide before pool area

Upstream

9 ft

0.45 per
reading

Canal 485
Spring 1B

6/18/10

5.4 inches

N 28° 46.153'

W 082° 07.075'

Flow measurements
done about
~ 30 m upstream
from spring

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	0	0.00	0	0.00			—		0.000	0.00	0.00
					0.00						
1.00	0.45	0.00	0	0.00			—		0.000	0.00	0.00
					0.00						
1.00	.9	0.00	.25	0.00			.08		0.000	0.00	0.00
					0.00						
1.00	1.35	0.00	.4	0.00			.14		0.000	0.00	0.00
					0.00						
1.00	1.8	0.00	.45	0.00			.10		0.000	0.00	0.00
					0.00						
1.00	2.25	0.00	.45	0.00			.19		0.000	0.00	0.00
					0.00						
1.00	2.7	0.00	.55	0.00			.22		0.000	0.00	0.00
					0.00						
1.00	3.15	0.00	.65	0.00			.50		0.000	0.00	0.00
					0.00						
1.00	3.6	0.00	.7	0.00			.08		0.000	0.00	0.00
					0.00						
1.00	4.05	0.00	.7	0.00			.03		0.000	0.00	0.00
					0.00						
1.00	4.5	0.00	.65	0.00			.09		0.000	0.00	0.00
					0.00						
1.00	4.95	0.00	.6	0.00			.21		0.000	0.00	0.00
					0.00						
1.00	5.4	0.00	.6	0.00			.20		0.000	0.00	0.00
					0.20						
1.00	5.85	0.00	.5	0.00			.11		0.000	0.00	0.00
					0.00						
1.00	6.3	0.00	.5	0.00			.08		0.000	0.00	0.000
					0.00						
1.00	6.75	0.00	.49	0.00			.18		0.000	0.00	0.000
					0.00						
1.00	7.2	0.00	.4	0.00			.08		0.000	0.00	0.000
					0.00						
1.00	7.65	0.00	.3	0.00			.03		0.000	0.00	0.000
					0.00						
1.00	8.1	0.00	.1	0.00			—		0.000	0.00	0.00

Canal Spg
4851B
Downstream

12 ft

0.6 intervals

N 28° 46.170'
W 082° 07.077'

Canal 485A
Spring 1B

6/18/10

L. Hester &
P. Madden

Flow Measurements
done downstream
of spring vent.

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	0	0.00	1.05	0.00			-1.2		0.000	0.00	0.00
					0.00						
						0.00	-0.7				
1.00	.6	0.00	.3	0.00					0.000	0.00	0.00
					0.00						
	1.2					0.00	-0.3				
1.00	1.2	0.00	.8	0.00					0.000	0.00	0.00
					0.00						
						0.00					
1.00	1.8	0.00	.95	0.00			0		0.000	0.00	0.00
					0.00						
						0.00					
1.00	2.4	0.00	.9	0.00			0		0.000	0.00	0.00
					0.00						
						0.00					
1.00	3.0	0.00	1.1	0.00			-0.2		0.000	0.00	0.00
					0.00						
						0.00					
1.00	3.6	0.00	1.2	0.00			.05		0.000	0.00	0.00
					0.00						
						0.00					
1.00	4.2	0.00	1.15	0.00			.14		0.000	0.00	0.00
					0.00						
						0.00					
1.00	4.8	0.00	1.3	0.00			.10		0.000	0.00	0.00
					0.00						
						0.00					
1.00	5.4	0.00	1.2	0.00			.14		0.000	0.00	0.00
					0.00						
						0.00					
1.00	6.0	0.00	1.2	0.00			.16		0.000	0.00	0.00
					0.00						
						0.00					
1.00	6.6	0.00	1.2	0.00			.16		0.000	0.00	0.00
					0.00						
						0.00					
1.00	7.2	0.00	1.25	0.00			.09		0.000	0.00	0.00
					0.00						
						0.00					
1.00	7.8	0.00	1.2	0.00			.12		0.000	0.00	0.00
					0.00						
						0.00					
1.00	8.4	0.00	1.2	0.00			.16		0.000	0.00	0.000
					0.00						
						0.00					
1.00	9.0	0.00	1.95	0.00			.11		0.000	0.00	0.00
					0.00						
						0.00					
1.00	9.6	0.00	.7	0.00			.10		0.000	0.00	0.00
					0.00						
	10.2					0.00					
1.00	10.2	0.00	.5	0.00			-.01		0.000	0.00	
					0.00						
						0.00					
1.00	10.8	0.00	.3	0.00			-.06		0.000	0.00	

