## STREAMSIDE BIOSURVEY: HABITAT WALK

Stream Name:		
County:	State:	
Site (description):		
	Longitude:	
Site or Map Number:		
	Time:	

Weath	er in past 24 hours:	Weather now:		
	Storm (heavy rain)		Storm (heavy rain)	
	Rain (steady rain)		Rain (steady rain)	
	Showers (intermittent rain)		Showers (intermittent rain	
	Overcast		Overcast	
	Clear/Sunny		Clear/Sunny	



## PHYSICAL CHARACTERIZATION In-Stream Characteristics

	In-Stream Characteristics		Streambank and Channel Characteristics						
1.	Check which stream habitats are present: (You can check more than 1 habitat) $\theta$ Pool(s) $\theta$ Riffle(s) $\theta$ Run(s)	Page 73	10. (a) Approximate depth of run(s): $\theta < 1 \text{ ft}$ $\theta > 2 \text{ ft}$ (b) Approximate depth of pool(s):						
2.	Nature of particles in the stream bottom at site	Page 73	$\theta$ < 1 ft $\theta$ 1-2 ft $\theta$ > 2 ft						
	Percent	<u> </u>	11. Approximate width of stream channel:  Page 75						
	Silt/Clay/Mud Sand (up to 0.1" in diam.)		feet $\theta$ measured $\theta$ estimated						
	Gravel (0.1 - 2" in diam.)		<b>12. Stream velocity:</b> ft/sec. Page 75						
	Cobbles (2 - 10" in diam.)  Boulders (over 10" in diam.)		13. Looking upstream (100 yds.), pick the description that best fits the shape of the stream bank and the channel.						
	Bedrock (solid)		(a) Stream bank:						
	TOTAL 100%		Left Right $\theta$ Vertical/undercut $\theta$						
3.	Pick the category that best describes the extent to which gravel, cobbles, and boulders on the stream bottom are embedded (sunk) in silt, sand, or mud.	Page 74	$\theta$ Steeply sloping (> 30°) $\theta$ $\theta$ Gradual/no slope (< 30°) $\theta$						
	θ Somewhat/not embedded (0-25%) θ Mostly embedded	d (75%)	(b) Extent of artificial bank modifications:						
	θ Halfway embedded (50%) θ Completely embe	dded (100%)	Left Right						
4	Streambed sinks beneath your feet in:		$\theta$ Bank 0-25% covered $\theta$ Bank 25-50% covered $\theta$						
٦.	$\theta$ No spots $\theta$ A few spots $\theta$ Many spots	Page 74	$\theta$ Bank 50-75% covered $\theta$						
_		Dana 74	$\theta$ Bank 75-100% covered $\theta$						
5.	Presence of logs or large woody debris in stream:  θ None θ Occasional θ Plentiful	Page 74	(c) Shape of the channel:						
6.	Presence of naturally-occurring organic material (i.e., leaves and twigs, etc.) in stream:	Page 74	$\begin{array}{cccc} \theta & \text{Narrow, deep} & \theta & \text{Wide, deep} \\ \theta & \text{Narrow, shallow} & \theta & \text{Wide, shallow} \end{array}$						
	θ None $θ$ Occasional $θ$ Plentiful		14. Looking upstream (100 yds.), describe the streamside cover						
7.	Water appearance:	Page 74	(a) Along water's edge and stream bank only:						
	$\theta$ Clear $\theta$ Turbid $\theta$ Orange		Left (Percent) Right (Percent)						
	$\theta$ Milky $\theta$ Dark brown $\theta$ Greenish $\theta$ Foamy $\theta$ Oily sheen $\theta$ Other		Trees						
_	,		Bushes, shrubs						
8.	Water odor:	Page 74	Tall grasses, ferns, etc Lawn						
	$\theta$ Sewage $\theta$ Fishy $\theta$ None $\theta$ Chlorine $\theta$ Rotten eggs $\theta$ Other		Boulders/rocks						
			Gravel/sand						
9.	Water temperature:	Page 74	Bare soil						
	°C <i>or</i> °F		Pavement, structures						
			TOTALS 100% 100%						

Left (Percent) Right (Percent)							t)		Local Watershed Characteristics						
				Trees						(with	in ab	out 1/4 mile of the site; adjacent and up	stream)		
				Bushes, shrub	s					-			-		
				Tall grasses, for	erns, etc.				17.	Land	uses i	n the local watershed can potentially have	Page 78		
				Lawn								n a stream. Check "1" if present, "2" if clearly	rage 10		
				Boulders/rocks	S					having	an im	pact on the stream.			
				Gravel/sand											
				Bare soil						1	2	Residential			
				Pavement, str	uctures					θ	θ	Single-family housing			
Τ	OTAL	S	100%			100%				θ	θ	Multifamily housing			
										θ	θ	Lawns			
	Diek	46	-44	et beet describ	the even	nt to sublab	_			θ	θ	Commercial/institutional			
•				at best describ he stream at yo		nt to which	L	Page 77		ā	_				
	_					0 4000/				1	2	Roads, etc.			
	θ 09	<b>%</b>	θ 25%	θ 50%	θ 75%	θ 100%				θ	θ	Paved roads or bridges			
•				note general co		ly ovident		Page 77		θ	θ	Unpaved roads			
	CHEC	ı ı	ii pieseiii,	2 il sevele più	blem is clear	iy eviderit.				1	2	Construction underway on:			
	L	eft					R	ight		θ	θ	Housing development			
	1	2	Stream E				1	2		θ	θ	Commercial development			
	θ	θ		reamside plant	cover degrad	ded	θ	θ		θ	θ	Road bridge construction/repair			
	θ	θ		lapsed/eroded			θ	θ							
	θ	θ	_	unk adjacent to	the stream		θ	θ		1	2	Agricultural			
	θ	θ	Foam or	sheen on bank			θ	θ		θ	θ	Grazing land			
	_	_	O4===== C	de e e e e e e			_	•		θ	θ	Feeding lots or animal holding areas			
	1	2	Stream C				1	2		θ	θ	Cropland			
	θ	θ		or sand in or en	-	ream	θ	θ		θ	θ	Inactive agricultural land/fields			
	θ	θ	Garbage/	junk in the strea	am		θ	θ							
	1	2	Other				1	2		1	2	Recreation			
	θ	θ		te on bank (gras	ss. clippinas.	etc.)	θ	θ		θ	θ	Power boating			
	θ	θ		in or with unres			θ	θ		θ	θ	Golfing			
	θ	θ		ischarging pipe			θ	θ		θ	θ	Camping			
	θ	θ		e(s) entering the			θ	θ		θ	θ	Swimming/fishing/canoeing			
	θ	θ		ntering the strea			θ	θ		θ	θ	Hiking/paths			
										1	2	Other			
										θ	θ	Mining or gravel pits			
										θ	θ	Logging			
										θ	θ	Industry			
										θ	θ	Oil and gas drilling			
										θ	θ	Trash dump			
										θ	θ	Landfills			

## BIOLOGICAL CHARACTERIZATION

## **VISUAL BIOLOGICAL SURVEY**

18. Fish in the stream? (Mark all that apply)  Page 78										
	θ	No	θ	Yes, but rare	θ	Yes, abundant				
	$\theta$ Small (1-2 in.) $\theta$			Medium (3-6 in.)	θ	Large (7 in. and above)				
19. Are there any barriers to fish movement?										
	θ	Beaver dams	θ	Waterfalls (>1')	θ	None				
	θ	Dams	θ	Road barriers	θ	Other	-			
20. Aquatic plants in the stream. (Mark all that apply)										
	θ	None	one θ Occasional		θ	Plentiful				
	θ	Attached	θ	Free-floating						
	θ	Stream margin	θ	Pools	θ	Near riffle				
21. E	21. Extent of algae in the stream. (Mark all that apply)  Page 78									
(a) Are the submerged stones, twigs, or other material in the stream coated with a layer of algal "slime"?										
	θ	$\theta$ None $\theta$ Occasional		θ	Plentiful					
	θ	Light coating	$\theta$ Heavy coating							
	θ	Brownish	Brownish $\theta$ Greenish $\theta$ Other				-			
(b) Are there any filamentous (string-like) algae?										
	θ	None	θ	Occasional	θ	Plentiful				
	θ	Brownish	θ	Greenish	θ	Other	-			
(c) Are any detached "clumps" or "mats" of algae floating on the water's surface?										
	θ	None	θ	Occasional	θ	Plentiful				
	θ	Brownish	θ	Greenish	θ	Other	-			

**COMMENTS:** (Note changes or potential problems such as spills, new construction, type of discharging pipes)