STREAM HABITAT WALK

Stream Name:		
County:	State:	
Investigators:		
	Longitude:	
Site or Man Number		
Site of Map Number:		

Weather in past 24 hours:

- □ Storm (heavy rain)
- □ Rain (steady rain)
- □ Showers (intermittent rain)
- Overcast
- Clear/Sunny

Weather now:

- □ Storm (heavy rain)
- Rain (steady rain)
- □ Showers (intermittent rain)
- Overcast
- Clear/Sunny

Sketch of site

On your sketch, note features that affect stream habitat, such as: riffles, runs, pools, ditches, wetlands, dams, riprap, outfalls, tributaries, landscape features, logging paths, vegetation, and roads.

PHYSICAL CHARACTERIZATION

In-Stream Characteristics

1.	Check which stream		re present:		Page 48
	(You can check more the	/			
	Pool(s)	θ Riffle(s)	θ Run(s))	
2.	Nature of particles	in the strear	n bottom at si	te	Page 48
			None/Little	Some	Most
	Silt/Clay/Mud				
	Sand (up to 0.1" in a	diam.)			
	Gravel (0.1 - 2" in dia	am.)			
	Cobbles (2 - 10" in d	iam.)			
	Boulders (over 10" ir	n diam.)			
	Bedrock (solid)				
3.	Pick the category the which gravel, cobb bottom are embedded	les, and bou	Iders on the s	tream	Page 49
	θ Somewhat/not	embedded (()-25%) θ Mos	tlvembedde	d (75%)
	θ Halfway embedd	`	,		edded (100%
	-	. ,		-	
4.	Presence of logs of	-	-		Page 49
	θ None	θ Occasi	onal θ	Plentiful	
5.	Presence of natura (i.e., leaves and twi			erial	Page 49
	θ None	θ Occasi	onal θ	Plentiful	
6.	Water appearance:				Page 49
	θ Clear	θ Lightb	rown θ	Orange	
	θ Milky	θ Dark b		Greenish	
	θ Foamy θ Turbid	θ Oily sh	een θ	Other	
7.	Water odor:				Page 50
	θ Sewage	θFishy	A	None	i ugo oo
	θ Chlorine	θ Rotten		Other	
8.	Water temperature:				Page 50
		°C 0	r	٥F	

Streambank and Channel Characteristics

9.		mate d < 1 ft	lepth of run(s): θ 1-2 ft	θ	> 2 ft	Page 50				
			• • _ • •	0	210					
		< 1 ft	lepth of pool(s): θ 1-2 ft	θ	> 2 ft					
10.	Approxima	te widt	th of stream channel:			Page 50				
		feet	θ measured θ es	stimated	ł					
11.	Stream velo	ocity:	ft/sec.			Page 50				
12.			n (100 yds.), pick the e of the stream bank			Page 50				
	(a) Stream	bank:								
	Left			R	ight					
	θ	١	/ertical/undercut		Ð					
	θ		Steeply sloping (> 30°)		θ					
	θ	(Gradual/no slope (< 30	°)	θ					
	(b) Extent o	of artifi	cial bank modificatio	ns:						
	Left			R	ight					
	θ	E	Bank 0-25% covered		θ					
	θ	-	Bank 25-50% covered		θ					
	θ	-	Bank 50-75% covered		θ					
	θ	E	Bank 75-100% covered	1	θ					
	(c) Shape o	of the c	hannel:							
			•	/ide, de	•					
	θ	Narrov	v, shallow θ W	/ide, sh	allow					
13.	Looking up	strean	n (100 yds.), describe	the		Page 51				
	streamside	cover	. Check "1" if present	t, "2" if	common					
	(a) Along w	ater's	edge and stream ban	k only						
	Left Right									
	1	2			12					
	θ	θ	Trees		θθ					
	θ	θ	Bushes, shrubs		θθ					
	θ	θ	Tall grasses, ferns,		θθ					
	θ	θ	Lawn		θθ					
	θ	θ	Boulders/rocks		θθ					
	θ	θ	Gravel/sand		θθ					
	θ	θ	Bare soil		θθ					
	θ	θ	Pavement, structure	es	θθ					

(b) From the top of the streambank out to 25 yards.

			Le	ft	Right		
			1	2	1 2		
			θ	θ	Trees $\theta = \theta$		
			θ	θ	Bushes, shrubs $\theta = \theta$		
			θ	θ	Tall grasses, ferns, etc. $\theta = \theta$		
			θ	θ	Lawn θ θ		
			θ	θ	Boulders/rocks θ θ		
			θ	θ	Gravel/sand θ θ		
			θ	θ	Bare soil $\theta = \theta$		
			θ	θ	Pavement, structures θ θ		
4.					at best describes the extent to ades the stream at your site.	Pa	age
	θ 09		-	25%	θ 50% θ 75% θ 100%		
5_	Lool	cing (upstre	eam, n	ote general conditions. Check	Pa	age
	"1" i	f pre					
			sent,	"2" if s	severe problem is clearly		
		eft					
	1	eft 2	Stre	am Ba	anks	1	2
		eft	Stre Nati	eam B a	anks reamside plant cover degraded		
	1 θ θ	eft 2 θ θ	Stre Nati Ban	eam Ba ural str ks coll	anks reamside plant cover degraded lapsed/eroded	1 θ θ	2 θ θ
	1 θ θ	eft 2 θ θ θ	Stre Nati Ban Gar	eam Ba ural str ks coll bage/ji	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream	1 θ θ θ	2 θ θ
	1 θ θ	eft 2 θ θ	Stre Nati Ban Gar	eam Ba ural str ks coll bage/ji	anks reamside plant cover degraded lapsed/eroded	1 θ θ	2 θ θ
	1 θ θ	eft 2 θ θ θ	Stre Nate Ban Gar Foa	eam Ba ural str ks coll bage/ji m or s	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream	1 θ θ θ	2 θ θ
	1 θ θ θ	eft 2 θ θ θ θ	Stre Nati Ban Gar Foa	bam Ba ural str ks coll bage/ju m or s bam Ci	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream heen on bank	1 θ θ θ	2 θ θ θ θ
	1 0 0 0 0	eft 2 θ θ θ θ 2	Stre Natu Ban Gar Foa Stre Muc	oam Ba ural str ks coll bage/ju m or s oam Cl d, silt, c	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream heen on bank hannel	1 0 0 0 0	2 θ θ θ θ θ
	1 0 0 0 1 0 0 1	eft 2 θ θ θ θ 2 θ θ θ 2	Stree Natu Ban Gar Foa Stree Muc Gar Oth	eam Ba ural str ks coll bage/ji m or s eam Cl d, silt, c bage/ji er	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream theen on bank hannel or sand in or entering the stream unk in the stream	1 0 0 0 0 1 0 0 1	θ θ <t< td=""></t<>
	1 0 0 0 1 0 0 1 0	eft 2 θ θ θ 2 θ θ 2 θ	Stree Natu Ban Gar Foa Stree Muc Gar Oth Yard	eam Ba ural stri ks coll bage/ju m or s eam Cl d, silt, c bage/ju er d waste	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream wheen on bank hannel or sand in or entering the stream unk in the stream e on bank (grass, clippings, etc.)	1 0 0 0 0 1 0 0 1 0 0 1 0	2 θ θ θ θ θ θ θ θ
	1 0 0 0 1 0 0 1 0 0 0	eft 2 θ θ θ 2 θ θ 2 θ θ θ	Stree Natu Ban Gar Foa Stree Muc Gar Oth Yare Live	eam Ba ural str ks coll bage/ju m or s eam Cl d, silt, c bage/ju er d waste estock	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream theen on bank hannel or sand in or entering the stream unk in the stream e on bank (grass, clippings, etc.) in or with unrestricted access to stream	1 0 0 0 1 0 0 1 0 0 0	2 θ θ θ θ θ θ θ θ
	1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	eft 2 θ θ θ θ 0 2 θ θ 0 0 0 0 0 0 0 0 0 0 0	Stre Natu Ban Gar Foa Stre Gar Oth Yard Live Acti	eam Ba ural str ks coll bage/ju m or s eam Cl d, silt, c bage/ju er d waste stock i vely di	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream theen on bank hannel or sand in or entering the stream unk in the stream e on bank (grass, clippings, etc.) in or with unrestricted access to stream ischarging pipe(s)	 θ θ	2 θ θ θ θ θ θ θ θ
	1 0 0 0 1 0 0 1 0 0 0	eft 2 θ θ θ 2 θ θ 2 θ θ θ	Stree Natu Ban Gar Foa Stree Muc Gar Oth Yare Live Acti Oth	eam Ba ural str ks coll bage/ju m or s eam Cl d, silt, c bage/ju er d waste stock i vely di er pipe	anks reamside plant cover degraded lapsed/eroded unk adjacent to the stream theen on bank hannel or sand in or entering the stream unk in the stream e on bank (grass, clippings, etc.) in or with unrestricted access to stream	1 0 0 0 1 0 0 1 0 0 0	2 θ θ θ θ θ θ θ θ

	Local Watershed Characteristics										
	(within about 1/4 mile of the site; adjacent and upstream)										
16.	16. Land uses in the local watershed can potentially have an impact on a stream. Check "1" if present, "2" if clearly having an impact on the stream.										
	1	2	Residential								
	θ	θ	Single-family housing								
	θ	θ	Multifamily housing								
	θ	θ	Lawns								
	θ	θ	Commercial/institutional								
	1	2	Roads, etc.								
	θ	θ	Paved roads or bridges								
	θ	θ	Unpaved roads								
	1	2	Construction underway on:								
	θ	θ	Housing development								
	θ	θ	Commercial development								
	θ	θ	Road bridge construction/repair								
	1	2	Agricultural								
	θ	θ	Grazing land								
	θ	θ	Feeding lots or animal holding areas								
	θ	θ	Cropland								
	θ	θ	Inactive agricultural land/fields								
	1	2	Recreation								
	θ	θ	Power boating								
	θ	θ	Golfing								
	θ	θ	Camping								
	θ	θ	Swimming/fishing/canoeing								
	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								
	$\theta \\ \theta$	θ θ	Trash dump Landfills								
	9	Ð	Lanumis								

BIOLOGICAL CHARACTERIZATION

V

							21. If macroinvertebrates were collected from the stream bottom, which type of method/habitat was selected?								
17. Wildlife in or around the stream? (Mark all that apply) θ Amphibians θ Waterfowl θ Reptiles θ Mammals									Rock-rubbing method:			From cobbles and large stones selected			
	θ	Amphibians	θ	Waterfowl θ F	kep	tiles θ Mamn	mals	Ŭ			from riffles.	ind i			
18. Fi		in the stream? No	•	<i>lark all that apply)</i> Yes, but rare	θ	Yes, abundant	age 53	θ	Stick-picking method:		From woody ob silty bottoms.	ject	s in streams w	ith sandy,	
	θ	Small (1-2 in.)	θ	Medium (3-6 in.)	θ	Large (7 in. and abo	ove)	θ	Leaf-pack sorting meth	nod	: From submerge either a rocky o				
A	re	there any barrier	's t	o fish movement?				22 L	Are macroinvertebrates	s n	resent?			Dama 54	
	θ	Beaver dams	θ	Waterfalls > 1'	θ	None		/		-				Page 54	
	θ	Dams	θ	Road barriers	θ	Other			θ Νο	θ	Yes, but rare	θ	Yes, abundai	nt	
19. A	qu	atic plants in th	e s	stream. (Mark all th	at	apply) Pag	age 53	23. li	f present, describe the	e ty	pes of macroinve	rte	orates	Page 54	
	θ	None	θ	Occasional	θ	Plentiful		f	ound.						
	θ	Attached	θ	Free-floating				(1	Mark all that apply)						
	θ	Stream margin	θ	Pools	θ	Near riffle			Wormlike	θ	Occasional	θ	Plentiful		
20. E	20. Extent of algae in the stream. (Mark all that apply) Page 53						age 53		Snails/clamlike	θ	Occasional	θ	Plentiful		
(a)				tones, twigs, or oth layer of algal "slime			<u> </u>		Insects Crayfish	θ θ	Occasional Occasional		Plentiful Plentiful		
	θ	None	θ	Occasional	θ	Plentiful			Craynon	Ŭ	Coccontra	Ŭ			
	θ	Light coating	θ	Heavy coating			F								
	θ	Brownish	θ	Greenish	θ	Other		С	OMMENTS: (Note of	cha	nges or potential i	orot	lems such as	spills.	
(b)	Ar	e there any filan	ner	ntous (string-like) al	ga	e?			ew construction, type of					-1 -,	
	θ	None	θ	Occasional	θ	Plentiful									
	θ	Brownish	θ	Greenish	θ	Other									
(c)		e any detached ater's surface?	"cl	umps" or "mats" of a	alg	ae floating on the									
	θ	None	θ	Occasional	θ	Plentiful									
	θ	Brownish	θ	Greenish	θ	Other									

MACROINVERTEBRATE SURVEY (Optional)