

MCDEP SUMMER HABITAT DATA SHEET

STATION ID Watershed Code Segment ID

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Reviewed By: _____

DATE Year Month Day

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2nd Reviewer: _____

Office Use Only	Watershed Code	Segment ID	Type
MBSS SITE ID	<input type="text"/>	<input type="text"/>	<input type="text"/>

BANK EROSION (Facing Downstream)	Left Bank	Right Bank
Extent (m)	<input type="text"/>	<input type="text"/>
Severity <small>1=min 2=mod 3=severe</small>	<input type="text"/>	<input type="text"/>
Mean Eroded Height (m)	<input type="text"/>	<input type="text"/>
Eroded Area <small>(Extent x Mean Ht. /10)</small>	<input type="text"/>	<input type="text"/>

STREAM CHARACTER	Legend
<input type="checkbox"/> Braided	A = Absent
<input type="checkbox"/> Riffle	P = Present
<input type="checkbox"/> Run/Glide	E = Extensive
<input type="checkbox"/> Deep Pool (>= 0.5m)	<input type="checkbox"/> Gravel (0.1cm - 5cm)
<input type="checkbox"/> Shallow Pool (< 0.5m)	<input type="checkbox"/> Sand
<input type="checkbox"/> Boulder (>2m)	<input type="checkbox"/> Overhead Cover
<input type="checkbox"/> Boulder (0.25 - 2m)	<input type="checkbox"/> Silt/Clay
<input type="checkbox"/> Cobble (5 cm - 25 cm)	<input type="checkbox"/> Undercut Bank
<input type="checkbox"/> Bedrock	<input type="checkbox"/> Beaver Pond

BAR FORMATION & SUBSTRATE	
<p>(Check One)</p> <p><input type="checkbox"/> None</p> <p><input type="checkbox"/> Minor</p> <p><input type="checkbox"/> Moderate</p> <p><input type="checkbox"/> Extensive</p>	<p>(Check that apply)</p> <p><input type="checkbox"/> Cobble</p> <p><input type="checkbox"/> Gravel</p> <p><input type="checkbox"/> Sand</p> <p><input type="checkbox"/> Silt/Clay</p>

COMMENTS: _____

EXOTIC PLANTS Relative Abundance (A, P, E)	Legend
<input type="checkbox"/> Multiflora Rose	A = Absent
<input type="checkbox"/> Mile-a-Minute	P = Present
<input type="checkbox"/> Japanese Honeysuckle	E = Extensive
<input type="checkbox"/> Japanese Silt Grass	<input type="checkbox"/> Garlic Mustard
<input type="checkbox"/> Thistle	<input type="checkbox"/> Periwinkle
	<input type="checkbox"/> Kudzu
	<input type="checkbox"/> English Ivy

<input type="text"/>	<input type="text"/>	No. of Instream Woody Debris (1.5m x 0.1m diameter)
<input type="text"/>	<input type="text"/>	No. of Dewatered Woody Debris (debris out of water)
<input type="text"/>	<input type="text"/>	No. of Instream Rootwads
<input type="text"/>	<input type="text"/>	No. of Dewatered Rootwads

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HABITAT ASSESSMENT

Notes

1. Instream Habitat (0-20)	<input type="text"/>	<input type="text"/>
2. Epifaunal Substrate (0-20)	<input type="text"/>	<input type="text"/>
3. Velocity/Depth Diversity (0-20)	<input type="text"/>	<input type="text"/>
4. Pool/Glide/Eddy Quality (0-20)	<input type="text"/>	<input type="text"/>
Extent (m)	<input type="text"/>	<input type="text"/>
5. Riffle/Run Quality (0-20)	<input type="text"/>	<input type="text"/>
Extent (m)	<input type="text"/>	<input type="text"/>
6. Embeddedness (%)	<input type="text"/>	<input type="text"/>
7. Shading (%)	<input type="text"/>	<input type="text"/>

MBSS Stream Habitat Assessment Guidance Sheet

Habitat Parameter	Optimal				Sub-Optimal				Marginal				Poor							
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
1. Instream Habitat	Greater Than 50% of a Variety of cobble, boulder, Submerged logs, undercut banks, snags, rootwads, aquatic plants, or other stable habitat				30-50% mix of stable habitat. Adequate habitat				10-30% mix of stable habitat. Habitat availability less than desirable				Less Than 10% stable habitat. Lack of habitat is obvious							
2. Epifaunal Substrate	Preferred substrate abundant, stable, and at full colonization potential (riffles well developed and dominated by cobble; and/or woody debris prevalent, not new, and not transient)				Abund. Of cobble with gravel &/or boulders common; or woody debris, aquatic veg., undercut banks, or other productive surfaces common but not prevalent/suited for full colonization.				Large boulders and/or bedrock prevalent; cobble, woody debris, or other preferred surfaces uncommon				Stable substrate lacking, or particles are over 75% surrounded by fine sediment or flocculent material							
3. Velocity/Depth Diversity	Slow (<0.3 m/s), deep (>0.5 m/s); slow, shallow (<0.5m/s); fast (>0.3 m/s), deep; fast, shallow habitats all present				Only 3 of the 4 habitat categories present				Only 2 of the 4 habitat categories present				Dominated by 1 velocity/depth category (usually pools)							
4. Pool/Glide/Eddy Quality	Complex cover&/or depth >1.5 m; both deep (>0.5m)/shallows (<0.2 m) present				Deep (>0.5m) areas present; but only moderate cover				Shallows(<0.2m) prevalent in pool/ glide/ eddy habitat; little cover				Max depth <0.2m in pool/glide/eddy habitat; or absent completely							
5. Riffle/Run Quality	Riffle/run depth generally >10 cm, with maximum depth greater than 50 cm (Maximum score); substrate stable (e.g. Cobble, boulder) & variety of current velocities				Riffle/run depth generally 5-10 cm, variety of current velocities				Riffle/run depth generally 1-5 cm; primarily a single current velocity				Riffle/run depth <1 cm, or riffle/run substrates concreted							
6. Embeddedness	Percentage that gravel, cobble, and boulder particles are surrounded by fine sediment or flocculent material																			
7. Shading	Percentage of segment that is shaded (duration is considered in scoring). 0% = fully exposed to sunlight all day in summer; 100% = fully densely shaded all day in summer																			