

APPENDIX O

Ohio EPA Qualitative Habitat Evaluation Index Fact Sheet

River Code _____ River Mile _____ Stream _____

Date _____ Location _____

Scorers Initials: _____ Comments: _____

1) SUBSTRATE (Check ONLY Two Substrate TYPE BOXES; Estimate % present);

TYPE	POOL RIFFLE	POOL RIFFLE	SUBSTRATE ORIGIN	SUBSTRATE QUALITY
<input type="checkbox"/> <input type="checkbox"/> -BLDR /SLBS [10] _____	<input type="checkbox"/> <input type="checkbox"/> -GRAVEL [7] _____	Check ONE (OR 2 & AVERAGE)		Check ONE (OR 2 & AVERAGE)
<input type="checkbox"/> <input type="checkbox"/> -BOULDER [9] _____	<input type="checkbox"/> <input type="checkbox"/> -SAND [6] _____	<input type="checkbox"/> <input type="checkbox"/> -LIMESTONE [1] _____	SILT:	<input type="checkbox"/> <input type="checkbox"/> -SILT HEAVY [-2]
<input type="checkbox"/> <input type="checkbox"/> -COBBLE [8] _____	<input type="checkbox"/> <input type="checkbox"/> -BEDROCK [5] _____	<input type="checkbox"/> <input type="checkbox"/> -TILLS [1] _____		<input type="checkbox"/> <input type="checkbox"/> -SILT MODERATE [-1]
<input type="checkbox"/> <input type="checkbox"/> -HARDPAN [4] _____	<input type="checkbox"/> <input type="checkbox"/> -DETRITUS [3] _____	<input type="checkbox"/> <input type="checkbox"/> -WETLANDS [0] _____		<input type="checkbox"/> <input type="checkbox"/> -SILT NORMAL [0]
<input type="checkbox"/> <input type="checkbox"/> -MUCK [2] _____	<input type="checkbox"/> <input type="checkbox"/> -ARTIFICIAL [0] _____	<input type="checkbox"/> <input type="checkbox"/> -HARDPAN [0] _____		<input type="checkbox"/> <input type="checkbox"/> -SILT FREE [1]
<input type="checkbox"/> <input type="checkbox"/> -SILT [2] _____		<input type="checkbox"/> <input type="checkbox"/> -SANDSTONE [0] _____	EMBEDDED	<input type="checkbox"/> <input type="checkbox"/> -EXTENSIVE [-2]
		<input type="checkbox"/> <input type="checkbox"/> -RIP/RAP [0] _____	NESS:	<input type="checkbox"/> <input type="checkbox"/> -MODERATE [-1]
		<input type="checkbox"/> <input type="checkbox"/> -LACUSTRINE [0] _____		<input type="checkbox"/> <input type="checkbox"/> -NORMAL [0]
		<input type="checkbox"/> <input type="checkbox"/> -SHALE [-1] _____		<input type="checkbox"/> <input type="checkbox"/> -NONE [1]
		<input type="checkbox"/> <input type="checkbox"/> -COAL FINES [-2] _____		

NOTE : (Ignore sludge originating from point-sources; score on natural substrates) -5 or More [2]

NUMBER OF SUBSTRATE TYPES: -4 or Less [0]

COMMENTS: _____

Substrate

Max 20

2) INSTREAM COVER

TYPE: (Check All That Apply)	AMOUNT: (Check ONLY One or check 2 and AVERAGE)
<input type="checkbox"/> <input type="checkbox"/> -UNDERCUT BANKS [1] _____	<input type="checkbox"/> <input type="checkbox"/> -EXTENSIVE > 75% [1]
<input type="checkbox"/> <input type="checkbox"/> -OVERHANGING VEGETATION [1] _____	<input type="checkbox"/> <input type="checkbox"/> -MODERATE 25-75% [7]
<input type="checkbox"/> <input type="checkbox"/> -SHALLOWS (IN SLOW WATER) [1] _____	<input type="checkbox"/> <input type="checkbox"/> -SPARSE 5-25% [3]
<input type="checkbox"/> <input type="checkbox"/> -ROOT MATS [1] _____	<input type="checkbox"/> <input type="checkbox"/> -NEARLY ABSENT < 5% [1]
<input type="checkbox"/> <input type="checkbox"/> -DEEP POOLS > 70cm [2] _____	
<input type="checkbox"/> <input type="checkbox"/> -ROOT WADS [1] _____	
<input type="checkbox"/> <input type="checkbox"/> -AQUATIC MACROPHYTES [1] _____	
<input type="checkbox"/> <input type="checkbox"/> -BOULDERS [1] _____	
<input type="checkbox"/> <input type="checkbox"/> -LOGS OR WOODY DEBRIS [1] _____	

COMMENTS: _____

Cover

Max 20

3) CHANNEL MORPHOLOGY: (Check ONLY One PER Category OR check 2 and AVERAGE)

SINUOSITY	DEVELOPMENT	CHANNELIZATION	STABILITY	MODIFICATIONS/OTHER
<input type="checkbox"/> <input type="checkbox"/> -HIGH [4] _____	<input type="checkbox"/> <input type="checkbox"/> -EXCELLENT [7] _____	<input type="checkbox"/> <input type="checkbox"/> -NONE [6] _____	<input type="checkbox"/> <input type="checkbox"/> -HIGH [3] _____	<input type="checkbox"/> <input type="checkbox"/> -SNAGGING <input type="checkbox"/> <input type="checkbox"/> -IMPOUND.
<input type="checkbox"/> <input type="checkbox"/> -MODERATE [3] _____	<input type="checkbox"/> <input type="checkbox"/> -GOOD [5] _____	<input type="checkbox"/> <input type="checkbox"/> -RECOVERED [4] _____	<input type="checkbox"/> <input type="checkbox"/> -MODERATE [2] _____	<input type="checkbox"/> <input type="checkbox"/> -RELOCATION <input type="checkbox"/> <input type="checkbox"/> -ISLANDS
<input type="checkbox"/> <input type="checkbox"/> -LOW [2] _____	<input type="checkbox"/> <input type="checkbox"/> -FAIR [3] _____	<input type="checkbox"/> <input type="checkbox"/> -RECOVERING [3] _____	<input type="checkbox"/> <input type="checkbox"/> -LOW [1] _____	<input type="checkbox"/> <input type="checkbox"/> -CANOPY REMOVAL <input type="checkbox"/> <input type="checkbox"/> -LEVEED
<input type="checkbox"/> <input type="checkbox"/> -NONE [1] _____	<input type="checkbox"/> <input type="checkbox"/> -POOR [1] _____	<input type="checkbox"/> <input type="checkbox"/> -RECENT OR NO RECOVERY [1] _____		<input type="checkbox"/> <input type="checkbox"/> -DREDGING <input type="checkbox"/> <input type="checkbox"/> -BANK SHAPING
				<input type="checkbox"/> <input type="checkbox"/> -ONESIDE CHANNEL MODIFICATIONS

COMMENTS: _____

Channel

Max 20

4) RIPARIAN ZONE AND BANK EROSION (check ONE box per bank or check 2 and AVERAGE per bank) ★ River Right Looking Downstream ★

RIPARIAN WIDTH	FLOOD PLAIN QUALITY (PAST 100 FOOT RIPARIAN)	BANK EROSION
L R (Per Bank) _____	L R (Most Predominant Per Bank) _____	L R (Per Bank) _____
<input type="checkbox"/> <input type="checkbox"/> -WIDE > 50m [4] _____	<input type="checkbox"/> <input type="checkbox"/> -FOREST, SWAMP [3] _____	<input type="checkbox"/> <input type="checkbox"/> -NONE/LITTLE [3] _____
<input type="checkbox"/> <input type="checkbox"/> -MODERATE 10-50m [3] _____	<input type="checkbox"/> <input type="checkbox"/> -SHRUB OR OLD FIELD [2] _____	<input type="checkbox"/> <input type="checkbox"/> -MODERATE [2] _____
<input type="checkbox"/> <input type="checkbox"/> -NARROW 5-10m [2] _____	<input type="checkbox"/> <input type="checkbox"/> -RESIDENTIAL PARK, NEW FIELD [1] _____	<input type="checkbox"/> <input type="checkbox"/> -HEAVY/SEVERE [1] _____
<input type="checkbox"/> <input type="checkbox"/> -VERY NARROW < 5m [1] _____	<input type="checkbox"/> <input type="checkbox"/> -FENCED PASTURE [1] _____	
<input type="checkbox"/> <input type="checkbox"/> -NONE [0] _____	<input type="checkbox"/> <input type="checkbox"/> -CONSERVATION TILLAGE [1] _____	
	<input type="checkbox"/> <input type="checkbox"/> -URBAN OR INDUSTRIAL [0] _____	
	<input type="checkbox"/> <input type="checkbox"/> -OPEN PASTURE, ROW CROP [0] _____	
	<input type="checkbox"/> <input type="checkbox"/> -MINING/CONSTRUCTION [0] _____	

COMMENTS: _____

Riparian

Max 10

5.) POOL/GLIDE AND RIFFLE/RUN QUALITY

MAX. DEPTH (Check 1 ONLY!)	MORPHOLOGY (Check 1 or 2 & AVERAGE)	CURRENT VELOCITY (POOL & RIFFLES!) (Check All That Apply)
<input type="checkbox"/> <input type="checkbox"/> - > 1m [6] _____	<input type="checkbox"/> <input type="checkbox"/> -POOL WIDTH > RIFFLE WIDTH [2] _____	<input type="checkbox"/> <input type="checkbox"/> -EDDIES [1] _____
<input type="checkbox"/> <input type="checkbox"/> - 0.7-1m [4] _____	<input type="checkbox"/> <input type="checkbox"/> -POOL WIDTH = RIFFLE WIDTH [1] _____	<input type="checkbox"/> <input type="checkbox"/> -TORRENTIAL [-1] _____
<input type="checkbox"/> <input type="checkbox"/> - 0.4-0.7m [2] _____	<input type="checkbox"/> <input type="checkbox"/> -POOL WIDTH < RIFFLE W. [0] _____	<input type="checkbox"/> <input type="checkbox"/> -FAST [1] _____
<input type="checkbox"/> <input type="checkbox"/> - 0.2-0.4m [1] _____		<input type="checkbox"/> <input type="checkbox"/> -INTERSTITIAL [-1] _____
<input type="checkbox"/> <input type="checkbox"/> - < 0.2m [POOL=0] _____	COMMENTS: _____	<input type="checkbox"/> <input type="checkbox"/> -MODERATE [1] _____
		<input type="checkbox"/> <input type="checkbox"/> -INTERMITTENT [-2] _____
		<input type="checkbox"/> <input type="checkbox"/> -SLOW [1] _____

Pool/
Glide

Max 10

RIFFILE /RUN DEPTH	RIFFILE/RUN SUBSTRATE	RIFFILE/RUN EMBEDDEDNESS
<input type="checkbox"/> <input type="checkbox"/> - GENERALLY > 10 cm; MAX > 50 [4] _____	<input type="checkbox"/> <input type="checkbox"/> -STABLE (e.g., Cobble, Boulder) [2] _____	<input type="checkbox"/> <input type="checkbox"/> - NONE [-2] _____
<input type="checkbox"/> <input type="checkbox"/> - GENERALLY > 10 cm; MAX < 50 [3] _____	<input type="checkbox"/> <input type="checkbox"/> -MOD. STABLE (e.g., Large Gravel) [1] _____	<input type="checkbox"/> <input type="checkbox"/> - LOW [-1] _____
<input type="checkbox"/> <input type="checkbox"/> - GENERALLY 5-10 cm [1] _____	<input type="checkbox"/> <input type="checkbox"/> -UNSTABLE (Fine Gravel, Sand) [0] _____	<input type="checkbox"/> <input type="checkbox"/> - MODERATE [0] _____
<input type="checkbox"/> <input type="checkbox"/> - GENERALLY < 5cm [RIFFILE=0] _____	<input type="checkbox"/> <input type="checkbox"/> - NORIFFILE [Metric=0] _____	<input type="checkbox"/> <input type="checkbox"/> - EXTENSIVE [-1] _____

COMMENTS: _____

Riffle/Run

Max 8

Gradient

Max 10

6) GRADIENT (ft/mi): _____ DRAINAGE AREA (sq.mi.): _____

%POOL: %GLIDE:

%RIFFILE: %RUN: