

Appendix D. Aquatic Life Use Attainment Status for Stations Sampled in the Cuyahoga River Basin July-September, 1999-2000

Attainment status for lotic habitats are based on biocriteria for the Erie/Ontario Lake Plain ecoregion of Ohio (OAC 3745-1-07, Table 7-17). Attainment status in lake influenced sections of the Cuyahoga River mainstem (*i.e.*, lacustrary and navigation channel; RMs 7.0-0.0) are evaluated using an interim set of criteria developed for Lake Erie river mouths (Ohio EPA 1999a,b Draft). All fish sites were sampled using boat methods unless otherwise indicated. The Qualitative Habitat Evaluation Index (QHEI) is a measure of the ability of the physical habitat to support a biotic community. **DRAFT**

River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Cuyahoga River (OEPA Stream Code = 19-001)							
<i>Warmwater Habitat (WWH) Use Designation (Existing)</i>							
97.7 ^H /97.7	46	na	MG	70.5	FULL	Dst. Pioneer Lake	
96.2 ^H /96.2	32*	na	G	45.0	PARTIAL	Ust. East Branch Reservoir	
90.6 ^w /90.7	<u>22</u> *	na	28*	53.5	NON	Dst. East Branch Reservoir	
87.3 ^w /87.3	36 ^{ns}	6.9*	38	41.5	PARTIAL	Dst. Tare Creek (wetland)	
83.7 ^w	30*	7.7 ^{ns}	--	43.0	(PARTIAL)	Dst. West Branch Cuy. River	
64.5 ^w /64.2	47	8.8	56	89.0	FULL	Ust. Lake Rockwell	
55.7 ^B	28*	8.2 ^{ns}	--	38.0	(PARTIAL)	Dst. Lake Rockwell	
49.7 ^B /48.7	30*	8.4 ^{ns}	42	83.0	PARTIAL	Dst Munroe Falls Dam	
--/46.0	--	--	32 ^{ns}	NA	(FULL)	Dst. Cuyahoga Falls	
42.6 ^w /42.8	42	8.2	38	78.5	FULL	Ust. Little Cuyahoga River	
39.7 ^B /39.7	33*	8.3 ^{ns}	34	76.5	PARTIAL	Old Portage, Dst. Little Cuy. R.	
33.2 ^B /33.3	<u>23</u> *	7.7*	42	81.0	NON	Bolanz Rd.- Dst. Akron WWTP	
26.5 ^B /29.2	30*	7.9*	32 ^{ns}	78.0	PARTIAL	Boston Mills	
15.6 ^B /15.6	38 ^{ns}	8.9	44	79.0	FULL	Hillside Rd., Dst. Tinkers Creek	
11.0 ^B /11.0	<u>24</u> *	6.7*	38 [#]	79.5	NON	Ust. Southerly WWTP, Dst Mill Cr.	
8.0 ^B /8.3	28*	8.0*	38	77.5	PARTIAL	Dst. Southerly WWTP	
7.2 ^B /7.1	26*	7.5*	42	63.0	PARTIAL	Dst. Big Creek	
<i>Lake Erie Lacustrary - WWH Use Designation^c (Existing)</i>							
6.2/ --	<u>6</u> *	<u>4.1</u> *	--	--	NON	Ust. Nav. Channel	

Lower Cuyahoga River Watershed TMDLs, Appendix D

River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Old Cuyahoga River Channel (Navigation Channel) (19-999)							
<i>Limited Resource Water (LRW) Use Designation^d (Existing) (Very Poor = Non-attainment)</i>							
1.0/ --	34	8.1	--	--	FULL	Old river channel	
Cuyahoga River Unnamed Trib. @ RM 93.65 (19-073)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	44	na	E	79.5	FULL	Kile Road	
Tare Creek (19-038)							
<i>WWH Use Designation (Existing)</i>							
3.1 ^H /3.0	32*	na	G	60.0	PARTIAL	Durkee Road	
1.6 ^W /1.6	34*	na	<u>4</u> *	25.0	NON	SR 608 (wetland)	
West Branch Cuyahoga River (19-036)							
<i>WWH Use Designation (Existing)</i>							
12.3 ^H /12.3	38 ^{ns}	na	G	62.0	FULL	Taylor Wells Road	
10.2 ^H /10.2	34*	na	<u>8</u> *	57.5	NON	SR 322 (wetland)	
5.6 ^W /5.7	45	8.3	38	65.5	FULL	Aquilla Road	
Butternut Creek (19-037)							
<i>WWH Use Designation (Existing)</i>							
0.8 ^H /0.8	40	na	MG	59.0	FULL	Aquilla Road	
Diedrich Creek (19-061)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.6 ^H /0.6	46	na	VG	68.5	FULL	State Route 87	
Cuyahoga R. Unnamed Trib. @ RM 88.02 (19-057)							
<i>WWH Use Designation (Existing)</i>							
1.4 ^H /1.4	28*	na	F*	41.0	NON	Dst. Middlefield WWTP	
Bridge Creek Unnamed Trib. @ RM 0.52 (19-098)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	30*	na	F*	69.0	NON	Dst Rapid Road (wetland)	
Cuyahoga R. Unnamed Trib. @ RM 84.60 (19-097)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.7 ^H /0.7	38 ^{ns}	na	E	51.0	FULL	State Route 700	

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River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Sawyer Brook (19-034)							
<i>WWH Use Designation (Existing)</i>							
0.3 ^H /0.3	36 ^{ns}	na	P*	56.5	NON	Tilden Road	
Cuyahoga R. Unnamed Trib. @ RM 69.43 (19-096)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.3 ^H /0.2	36 ^{ns}	na	G	60.0	FULL	Canada Road	
Harper Ditch (19-092)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.2 ^H /0.2	46	na	VG	64.0	FULL	Beck Road	
Harper Ditch Unnamed Trib. @ RM 0.61 (19-093)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.3 ^H /0.3	34*	na	G	50.0	Partial	Infirmary Road	
Cuyahoga R. Unnamed Trib. @ RM 65.19 (19-095)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.3 ^H /0.3	30*	na	G	55.5	Partial	Coit Road	
Cuyahoga R. Unnamed Trib. @ RM 63.82 (19-094)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	42	na	E	69.5	FULL	State Route 303	
Eckert Ditch (19-090)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
1.7 ^H /1.7	46	na	G	54.0	FULL	State Route 14	
0.4 ^H / --	36 ^{ns}	na	--	56.0	(FULL)	Ust. Lake Rockwell	
Eckert Ditch Unnamed Trib. @ RM 0.92 (19-091)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.2 ^H /0.1	36 ^{ns}	na	MG	55.0	FULL	State Route 14	
Breakneck Creek [2000 sampling] (19-028)							
<i>WWH Use Designation (Existing)</i>							
--/14.6	--	--	46	--	(FULL)	Homestead Rd. (Reg. Ref. site)	
7.0 ^w /7.0	44	8.3	40	65.5	FULL	Summit Rd. (Reg. Ref. site)	
Breakneck Creek [1999 sampling]							
2.6w/ --	44	7.1*	--	--	(Partial)	Ust. Franklin WWTP	
2.5w/ --	38	6.3*	--	--	(Partial)	Dst. Franklin WWTP	
1.6w/ --	42	7.2*	--	--	(Partial)	SR 59	

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River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Potter Creek (19-029)							
<i>WWH Use Designation (Existing)</i>							
1.5 ^H /1.5	32*	na	34	62.0	Partial	Trares Road	
Plum Creek (19-027)							
<i>WWH Use Designation (Existing)</i>							
3.7 ^H /3.7	42	na	G	62.5	FULL	Tallmadge Road	
0.2 ^H /0.2	42	na	36	68.5	FULL	Cherry Street, dst impoundment	
Fish Creek (19-026)							
<i>Modified Warmwater Habitat (MWH) Use Designation (Existing)</i>							
1.7 ^H /1.7	<u>24</u>	na	F	43.0	FULL	Spaulding Road	
Fish Creek (19-026)							
<i>WWH Use Designation (Existing)</i>							
0.4 ^W /0.4	<u>26*</u>	na	F*	57.5	NON	North River Road	
Little Cuyahoga River (19-030)							
<i>WWH Use Designation (Existing)</i>							
0.3 ^W /0.3	37 ^{ns}	8.6	24*	72.0	PARTIAL	At mouth	
Mud Brook (19-024)							
<i>WWH Use Designation (Existing)</i>							
8.3 ^H /8.3	<u>26*</u>	na	32 ^{ns}	48.5	NON	Seasons Road	
0.2 ^W /0.7	36 ^{ns}	8.4	MG	54.5	FULL	Akron-Peninsula Road	
Powers Brook (19-025)							
<i>WWH Use Designation (Existing)</i>							
- /0.2	--	--	<u>P*</u>	--	(NON)	Adj. Penn Cent. RR	
Mud Brook Unnamed Trib. @ RM 5.48 (19-089)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.4 ^H /0.4	34*	na	<u>P*</u>	54.0	NON	Hudson Drive	
Woodward Creek (19-023)							
<i>WWH Use Desig. (Existing) / Coldwater Habitat (CWH) Use Desig. (Recommended)</i>							
0.6 ^H /0.6	42	na	MG	68.0	FULL	Akron-Peninsula Road	

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River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Yellow Creek (19-021)							
<i>WWH Use Designation (Existing)</i>							
5.3 ^H /5.3	36 ^{NS}	na	44	62.0	FULL	Granger Road	
3.0 ^W /2.8	40	8.9	50	83.5	FULL	Dst. North Fork	
0.1 ^W /0.1	40	8.4	46	84.0	FULL	Riverview Road	
North Fork Yellow Creek (19-022)							
<i>WWH Use Designation (Existing)</i>							
0.1 ^H /0.1	50	na	MG ^{NS}	73.0	FULL	Ust. Robinwood WWTP	
Robinson Run (19-019)							
<i>WWH Use Designation (Existing) / CWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	42	na	G	60.0	FULL	Akron-Peninsula Road	
Langes Run (19-018)							
<i>WWH Use Designation (Existing) / CWH Use Designation (Recommended)</i>							
0.3 ^H /0.8	48	na	G	53.0	FULL	Akron-Peninsula Road	
Dickerson Run (19-017)							
<i>WWH Use Designation (Existing)</i>							
0.6 ^H /0.6	38 ^{NS}	na	G	48.5	FULL	Akron-Peninsula Road	
Salt Run (19-016)							
<i>WWH Use Designation (Existing) / CWH Use Designation (Recommended)</i>							
0.3 ^H /0.8	42	na	G	70.0	FULL	Akron-Peninsula Road	
Haskell Run (19-014)							
<i>WWH Use Designation (Existing)</i>							
- / 1.1	NA	na	MG	NA	(FULL)	Dst. Camp Butler	
0.1 ^H /0.1	44	na	F*	49.5	PARTIAL	Akron-Peninsula Road	
Boston Run (19-013)							
<i>WWH Use Designation (Existing) / CWH Use Designation (Recommended)</i>							
0.1 ^H /0.3	48	na	VG	58.5	FULL	Riverview Road	
Slipper Run (19-012)							
<i>WWH Use Designation (Existing) / CWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	42	na	VG	64.5	FULL	Riverview Road	
Stanford Run (19-011)							
<i>WWH Use Designation (Existing)</i>							
0.9 ^H /0.9	48	na	MG	58.0	FULL	Hines Hill Road	

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River Mile				Attainment			
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Brandywine Creek (19-010)							
<i>WWH Use Designation (Existing)</i>							
10.0 ^H /10.0	<u>24</u> *	na	F*	61.5	NON	Prospect Road	
7.0 ^H /7.1	28*	na	MG	55.5	PARTIAL	Hines Hill Road	
0.6 ^w /0.3	42	8.8	46	57.5	FULL	Dst. Waterpark nr. mouth	
Indian Creek (19-055)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.9 ^H /1.0	36 ^{ns}	na	F*	51.5	PARTIAL	Blue Jay Trail	
0.4 ^H /-	36 ^{ns}	na	na	46.5	(FULL)	Highland Road	
Sagamore Creek (19-088)							
<i>Undesignated / WWH Use Designation; Headwaters to Dunham Road (Recommended)</i>							
2.9 ^H /2.9	32*	na	F*	51.0	NON	Sagamore Road	
<i>Undesignated / CWH Use Designation; Dunham Road to mouth (Recommended)</i>							
0.3 ^H /0.2	46	na	G	72.0	FULL	Canal Road	
Tinkers Creek (19-007)							
<i>WWH Use Designation (Existing)</i>							
29.1 ^w /28.3	32*	na	48	52.5	PARTIAL	Seasons Road	
25.0 ^w /25.2	<u>24</u> *	na	46	34.5	NON	Hudson-Aurora Road	
17.5 ^w /18.0	<u>25</u> *	<u>5.3</u> *	40	50.0	NON	At Whitlach Development	
14.3 ^w /14.3	28*	6.4*	40	56.0	PARTIAL	Adj. East Idlewood	
8.5 ^w /8.5	<u>21</u> *	<u>5.5</u> *	44	76.5	NON	Dst. Inland Reclamation	
6.9 ^w /7.2	28*	7.5 ^{ns}	G	71.0	PARTIAL	Dst. Hawthorn Creek	
0.1 ^w /0.1	32*	6.1*	36	78.0	PARTIAL	At mouth	
Tinkers Creek Unnamed Trib. @ RM 27.72 (19-047)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.9 ^H /0.7	<u>24</u> *	na	G	48.0	NON	nr. SR 303 bypass	
Tinkers Creek Unnamed Trib. @ RM 25.44 (19-102)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
-- /0.1	--	--	G	--	FULL	At mouth	
Unnamed Trib.(North Branch) to Tinkers Creek U. Trib. @ RM 25.44/0.18 (19-103)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.6 ^H /0.5	30*	na	F*	56.5	NON	Dst. Stow Road	

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River Mile		Attainment					
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
Pond Brook (19-008)							
<i>MWH Use Designation (Existing)</i>							
3.8 ^H /3.8	36	na	F	44.0	FULL	Ust. Aurora Shores WWTP	
– /1.4	--	--	28	NA	(FULL)	SR 82 (wetland area)	
Beaver Meadow Run (19-046)							
<i>WWH Use Designation (Existing)</i>							
1.2 ^H /1.2	34*	na	F*	57.0	NON	Ust. Solon WWTP	
0.2 ^H /0.2	38 ^{ns}	na	F*	70.5	PARTIAL	Old Cochran Road	
Hawthorn Creek (19-064)							
<i>WWH Use Designation (Existing)</i>							
0.7 ^H /0.7	32*	na	MG	60.0	PARTIAL	Richmond Road	
Bear Creek (19-067)							
<i>WWH Use Designation (Recommended)</i>							
0.2 ^H /0.2	30*	na	MG	59.0	PARTIAL	Solon Rd. nr. mouth	
Deer Lick Run (19-048)							
<i>Limited Resource Water (LRW) Use Designation (Existing)</i>							
0.8 ^H /0.7	<u>12</u> *	na	F	51.0	NON	nr. park drive	
Wood Creek (19-043)							
<i>LRW Use Designation (Existing)</i>							
0.2 ^H /0.1	<u>20</u> *	na	F	62.5	FULL	At mouth	
Cuyahoga R. Unnamed Trib. @ RM 16.24 (19-087)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.2	44	na	G	56.0	FULL	Riverview Road	
Cuyahoga R. Unnamed Trib. @ RM 15.11 (19-086)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	28*	na	F*	57.5	NON	Canal Road	
Cuyahoga R. Unnamed Trib. @ RM 14.33 (19-085)							
<i>Undesignated / WWH Use Designation (Recommended)</i>							
0.1 ^H /0.1	42	na	F*	69.0	PARTIAL	Stone Road	
Mill Creek (19-006)							
<i>WWH Use Designation (Existing)</i>							
0.1 ^H /0.1	32*	na	<u>P</u> *	69.5	NON	Canal Road	

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River Mile					Attainment		
Fish/Invert.	IBI	MIwb ^a	ICI ^b	QHEI	Status ^b	Comment	DRAFT
West Creek (19-066)							
<i>WWH Use Designation (Existing)</i>							
5.8 ^H /5.9	32*	na	F*	52.0	NON	Ridgewood Road	
3.7 ^H /3.7	32*	na	F*	48.5	NON	Broadview Road	
0.3 ^H /0.1	38 ^{ns}	na	F*	58.5	PARTIAL	Granger Road	
Euclid Creek (19-041)							
<i>WWH Use Designation (Existing)</i>							
7.1 ^H /7.1	32*	na	F*	55.5	NON	Ridgewood Road	
3.3 ^H /3.7	28*	na	F*	53.0	NON	Broadview Road	
1.6 ^w /1.8	<u>24</u> *	5.7*	40	70.0	NON	St. Clair Ave.	
0.7 ^w /0.7	<u>24</u> *	7.2*	32 ^{ns}	68.0	NON	Lake Shore Blvd.	
East Branch Euclid Creek (19-056)							
<i>WWH Use Designation (Existing)</i>							
0.2 ^H /0.1	30*	na	MG	58.0	PARTIAL	At mouth	
Doan Brook (19-039)							
<i>WWH Use Designation (Existing)</i>							
6.1 ^H /6.1	28*	na	F*	49.5	NON	Lee Road	
-- /4.2	NA	na	F*	NA	(NON)	East Ave	
2.7 ^H /2.4	<u>12</u> *	na	<u>P</u> *	58.5	NON	nr. Wade Park (raw sewage)	
1.3 ^H / ~ 1.3	<u>18</u> *	na	<u>8</u> * #	73.5	NON	Rockefeller Park	

Ecoregion Biocriteria: Erie/Ontario Lake Plain (EOLP) and Lake Erie Lacustuaries^c

INDEX - Site Type	WWH	EW ^H	MW ^H ^e	Lake Erie Lacustuary ^c RMs 7.0-5.6 (WWH/EW ^H)	Navigation Channel RMs 5.6-0.0 (LRW) ^d
IBI - Headwaters	40	50	24	--	--
IBI - Wading	38	50	24	--	--
IBI - Boat	40	48	24	42/50	>17
Mod. Iwb - Wading	7.9	9.4	6.2	--	--
Mod. Iwb - Boat	8.7	9.6	5.8	8.5/9.5	>5.0
ICI	34	46	22	42/52	>10

* Indicates significant departure from applicable biocriteria (>4 IBI or ICI units, or >0.5 MIwb units). Underlined scores are in the Poor or Very Poor range.

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- ns Nonsignificant departure from biocriteria (≤ 4 IBI or ICI units, or ≤ 0.5 MIwb units).
- # 2000 or 2001 NEORS ICI scores collected from the same location have been substituted where OEPA artificial substrate samplers were lost or macroinvertebrates were not sampled.
- a The Modified Index of Well-being is not applicable (NA) to headwater site types (<20 sq. mi.).
- b Use attainment status based on one organism group is parenthetically expressed.
- c Lake Erie lacustuary communities are evaluated using an interim set of metric scoring criteria based on sampling from other flooded river mouths in the drainage (Ohio EPA 1999a,b Draft). The scores are not directly comparable to biocriteria for lotic streams and rivers.
- d The use designation for the navigation channel is Limited Resource Water from June to January. The criteria listed exceed "Very Poor" conditions.
- e Modified Warmwater Habitat criteria for channel modified habitats.
- H Headwater site type
- W Wading method

For narrative description in the ICI column the following definitions were used:

E	Exceptional	(ICI Score 48-60)
VG	Very Good	
MG	Moderately Good	(ICI Score 36-46)
G	Good	
F	Fair	(ICI Score 14-32)
P	Poor	(ICI Score 2-12)
VP	Very Poor	(ICI Score 0)