

ICI METRICS AND SCORES FOR LOCATIONS RM 22.00 AND RM 26.70 IN CHAGRIN RIVER, AUGUST AND SEPTEMBER 2009.

L		I		T	M	C	D		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
O		D	C		N	A	A		A	N	I		P	P	P	P	P	P	P	P	P	P	P	
C		R	I	T	U	X	N	Y	N	D	U	P	P	M	P	C	E	T	R	O	E	T	U	
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	E	
RM 22.00	Aug09	153	38	5,260	22	2	4	2	6	6	11	2	24	4	31	6	15	2	30	4	1.2	6	13	4
RM 26.70	Sep09	120	44	12,758	31	4	5	2	7	6	14	4	7.9	2	41	6	23	4	28	4	2.3	6	15	6

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Chagrin River (RM 22.00), August 2009.

TAXA	Hester		Qual
	No.	%	
Eunapius	--	--	X
Turbellaria	1	0.02	X
Prostoma	--	--	X
Urnatella gracilis	--	--	X
Plumatella	--	--	X
Oligochaeta	--	--	X
Mooreobdella microstoma	--	--	X
Caecidotea	--	--	X
Orconectes	--	--	X
Isonychia	19	0.36	X
Acentrella turbida	48	0.91	X
Baetis intercalaris	851	16.18	X
Baetis flavistriga	321	6.10	X
Stenacron	--	--	X
Maccaffertium pulchellum	--	--	X
Calopteryx	--	--	X
Argia	--	--	X
Boyeria vinosa	--	--	X
Paragnetina media	--	--	X
Chimarra obscura	--	--	X
Cheumatopsyche	433	8.23	X
Hydropsyche depravata grp.	32	0.61	--
Hydropsyche dicantha	64	1.22	X
Ceratopsyche morosa	1,043	19.83	X
Ceratopsyche sparna	64	1.22	X
Hydroptila	16	0.30	--
Nectopsyche diarina	--	--	X
Neoporus	--	--	X
Ancyronyx variegata	--	--	X
Macronychus glabratus	--	--	X
Optioservus	--	--	X
Stenelmis	--	--	X
Psephenus herricki	--	--	X
Procladius (Holotanypus)	--	--	X
Nilotanypus fimbriatus	32	0.61	X
Thienemannimyia grp.	32	0.61	X
Corynoneura	160	3.04	--
Thienemanniella xena	96	1.83	X
Thienemanniella taurocapita	128	2.43	X
Cricotopus bicinctus grp.	64	1.22	X
Nanocladius distinctus	--	--	X
Tvetenia discoloripes grp.	224	4.26	X
Chironomus	--	--	X
Cryptochironomus	--	--	X
Dicrotendipes neomodestus	--	--	X
Glyptotendipes	--	--	X
Microtendipes	--	--	X
Parachironomus	--	--	X
Paratendipes	--	--	X
Phaenopsectra flavipes	32	0.61	--
Polypedilum flavum	800	15.21	X
Polypedilum illinoense	--	--	X
Polypedilum scalaenum grp.	--	--	X
Paratanytarsus	--	--	X
Rheotanytarsus	704	13.38	X
Tanytarsus glabrescens grp.	96	1.83	X
Tanytarsus sepp	--	--	X
Simulium	--	--	X
Antocha	--	--	X
Atherix lantha	--	--	X
Ferrissia	--	--	X
Musculium	--	--	X
TOTAL	5,260	100.00	
Total Taxa Richness	22		58

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Chagrin River (RM 26.70), September 2009.

TAXA	Hester		Qual
	No.	%	
Eunapius	--	--	X
Turbellaria	2	0.02	X
Plumatella	--	--	X
Fredericella	--	--	X
Oligochaeta	1	0.01	X
Caecidotea	--	--	X
Crangonyx	--	--	X
Orconectes	--	--	X
Isonychia	17	0.13	X
Acentrella turbida	16	0.13	X
Baetis flavistriga	885	6.94	--
Centroptilum	--	--	X
Proclleon	--	--	X
Heptagenia	--	--	X
Stenacron	--	--	X
Maccaffertium pulchellum	80	0.63	X
Tricorythodes	16	0.13	--
Calopteryx	--	--	X
Argia	--	--	X
Enallagma	--	--	X
Boyeria grafiana	--	--	X
Paragnetina media	1	0.01	X
Belostoma flumineum	--	--	X
Corydalis cornutus	--	--	X
Chimarra obscura	65	0.51	X
Cheumatopsyche	1,796	14.08	X
Hydropsyche depravata grp.	96	0.75	--
Hydropsyche dicantha	32	0.25	X
Ceratopsyche morosa	2,533	19.85	X
Ceratopsyche sparna	578	4.53	X
Leucotrichia pictipes	64	0.50	X
Trienodes perna	--	--	X
Ancyronyx variegata	--	--	X
Dubiraphia	--	--	X
Macronychus glabratus	16	0.13	X
Stenelmis	--	--	X
Psephenus herricki	--	--	X
Procladius (Holotanypus)	--	--	X
Clinotanypus	--	--	X
Thienemannimyia grp.	--	--	X
Corynoneura	608	4.77	X
Thienemanniella xena	192	1.50	--
Thienemanniella taurocapita	800	6.27	--
Cardiocladius	64	0.50	--
Cricotopus tremulus grp.	192	1.50	--
Cricotopus bicinctus grp.	128	1.00	--
Cricotopus trifascia grp.	64	0.50	X
Cricotopus sylvestris grp.	--	--	X
Nanocladius distinctus	64	0.50	X
Nanocladius spinipennis	--	--	X
Tvetenia discoloripes grp.	192	1.50	--
Microtendipes	--	--	X
Paratendipes	--	--	X
Phaenopsectra obediens	--	--	X
Polypedilum fallax grp.	64	0.50	--
Polypedilum flavum	1,184	9.28	X
Polypedilum illinoense	--	--	X
Paratanytarsus	--	--	X
Rheotanytarsus	2,880	22.57	X
Tanytarsus glabrescens grp.	64	0.50	--
Tanytarsus sepp	--	--	X
Simulium	--	--	X
Antocha	32	0.25	X
Atherix lantha	--	--	X
Physa	--	--	X
Helisoma	--	--	X
Ferrissia	32	0.25	X
Dreissena polymorpha	--	--	X
TOTAL	12,758	100.00	
Total Taxa Richness	31		57

ICI METRICS AND SCORES FOR LOCATIONS RM 0.10 IN AN UNNAMED TRIBUTARY TO CHAGRIN RIVER, AUGUST 2009.

L		I		T	M	C	D		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
O		D	C		N	A	A		A	N	I		P	P	P	P	P	P	P	P	P	P	P	
C		R	I	T	U	X	N	Y	N	D	U	P	P	M	P	C	E	T	R	O	E	T	U	
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	E	
RM 0.10	Aug09	10	30	4,633	19	2	0	0	4	6	12	2	0	0	1	4	60	6	39	4	4.8	6	1	0

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Chagrin River-Unnamed Tributary (RM 0.10), August 2009.

TAXA	Hester		Qual
	No.	%	
Turbellaria	15	0.32	X
Oligochaeta	30	0.65	X
Orconectes	--	--	X
Baetis flavistriga	--	--	X
Calopteryx	--	--	X
Enallagma	--	--	X
Aeshna	--	--	X
Polycentropus	1	0.02	--
Cheumatopsyche	4	0.09	--
Ceratopsyche morosa	3	0.06	--
Hydroptila	37	0.80	--
Natarsia sp. A	32	0.69	--
Ablabesmyia mallochi	32	0.69	--
Thienemannimyia grp.	352	7.60	X
Cricotopus tremulus grp.	32	0.69	--
Cricotopus bicinctus grp.	128	2.76	X
Synorthocladius	32	0.69	--
Dicrotendipes neomodestus	416	8.98	X
Dicrotendipes fumidus	96	2.07	X
Paratendipes	544	11.74	X
Phaenopsectra flavipes	32	0.69	--
Polypedilum flavum	--	--	X
Paratanytarsus	2,688	58.02	X
Tanytarsus	--	--	X
Tanytarsus glabrescens grp.	96	2.07	--
Anopheles	--	--	X
Stratiomys	--	--	X
Physa	63	1.36	X
TOTAL	4,633	100.00	
Total Taxa Richness	19		18

ICI METRICS AND SCORES FOR LOCATIONS RM 0.30 IN AN UNNAMED TRIBUTARY TO PEPPER-LUCE CREEK, AUGUST 2009.

L		I		T	M	C	D										P						E	
O		D	C		N	A	A		A	N	I		P	P	P	P	P	E	P	P	P	Q	P	
C		R	I	T	U	X	N	Y	N	D	U	P	P	M	P	C	E	T	R	O	E	T	U	T
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	S
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	C
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	O
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	R
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	T	E
RM 0.30	Aug09	10	18	5,423	16	2	0	0	1	4	8	2	0	0	0	2	29	6	71	0	27	2	0	0

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Pepper-Luce Creek Unnamed Tributary (RM 0.30), August 2009.

TAXA	Hester		Qual
	No.	%	
Turbellaria	--	--	X
Oligochaeta	48	0.89	X
Helobdella stagnalis	78	1.44	X
Erpobdella punctata punctata	1	0.02	X
Aeshna	--	--	X
Notonecta	--	--	X
Cheumatopsyche	2	0.04	--
Natarsia sp. A	64	1.18	--
Procladius (Holotanypus)	64	1.18	X
Thienemannimyia grp.	64	1.18	X
Nanocladius spiniplenus	160	2.95	--
Synorthocladius	--	--	X
Dicrotendipes simpsoni	1,376	25.37	X
Paratendipes	1,952	35.99	X
Micropsectra	928	17.11	X
Paratanytarsus	640	11.80	X
Tanytarsus	--	--	X
Simulium	--	--	X
Fossaria	2	0.04	--
Physa	28	0.52	X
Ferrissia	2	0.04	--
Musculium	14	0.26	X
TOTAL	5,423	100.00	
Total Taxa Richness	16		17

ICI METRICS AND SCORES FOR LOCATION RM 3.30 IN PEPPER-LUCE CREEK, AUGUST 2009.

L		I		T	M	C	D		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
O		D	C		N	A	A		A	N	I		P	P	P	P	P	P	P	P	P	P	P	
C		R	I	T	U	X	N	Y	N	D	U	P	P	M	P	C	E	T	R	O	E	T	U	
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	E	
RM 3.30	Aug09	10.0	40	9,524	32	4	2	0	4	6	19	4	4.4	2	27	6	24	6	44	4	7.7	6	4	2

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Pepper-Luce Creek (RM 3.30), August 2009.

TAXA	Hester		Qual
	No.	%	
Turbellaria	185	1.94	X
Oligochaeta	8	0.08	X
Mooreobdella microstoma	--	--	X
Crangonyx	--	--	X
Baetis intercalaris	8	0.08	--
Baetis flavistriga	411	4.32	X
Calopteryx	8	0.08	X
Hetaerina	8	0.08	--
Cheumatopsyche	1,986	20.85	X
Hydropsyche depravata grp.	489	5.13	X
Ceratopsyche morosa	96	1.01	X
Hydroptila	16	0.17	--
Stenelmis	1	0.01	X
Ablabesmyia mallochii	64	0.67	--
Nilotanytus fimbriatus	320	3.36	--
Thienemannimyia grp.	320	3.36	X
Corynoneura	384	4.03	--
Thienemanniella xena	384	4.03	--
Thienemanniella similis	--	--	X
Cricotopus tremulus grp.	64	0.67	--
Cricotopus bicinctus grp.	640	6.72	X
Nanocladius distinctus	64	0.67	--
Parametrioctenus	64	0.67	--
Tvetenia discoloripes grp.	--	--	X
Dicrotendipes neomodestus	128	1.34	X
Glyptotendipes	128	1.34	--
Paratendipes	128	1.34	X
Phaenopsectra obediens	--	--	X
Polypedilum fallax grp.	--	--	X
Polypedilum flavum	1,280	13.44	X
Polypedilum illinoense	--	--	X
Polypedilum scalaenum grp.	--	--	X
Paratanytarsus	704	7.39	--
Rheotanytarsus	1,088	11.42	--
Tanytarsus	512	5.38	--
Tanytarsus glabrescens grp.	--	--	X
Simulium	9	0.09	X
Tipula	1	0.01	--
Hemerodromia	1	0.01	X
Physa	--	--	X
Ferrissia	24	0.25	--
Musculium	1	0.01	X
TOTAL	9,524	100.00	
Total Taxa Richness	32		26

ICI METRICS AND SCORES FOR LOCATION RM 1.00 IN WILEY CREEK TRIBUTARY, AUGUST 2009.

L		I		T	M	C	D		P		P	P	P	P	P		E		P		P		E	
O		D	C		N	A	A		A	N	I		P		P	P	P	P	Q		P		P	
C		R	I	T	U	X	N	Y	N	D	U	P	P	M	P	C	E	T	R	O	E	T	U	T
A	M	N	T	O	M	S	U	S	U	S	M	S	E	A	E	A	R	A	O	T	R	O	A	S
T	O	A	O	T	T	C	M	C	M	C	D	C	R	Y	R	D	T	N	T	H	T	L	L	C
I	N	R	T	N	A	O	M	O	C	O	I	O	M	S	C	S	A	S	H	S	O	S	E	O
O	Y	E	A	U	X	R	A	R	A	R	P	R	A	C	A	C	N	C	E	C	L	C	P	R
N	R	A	L	M	A	E	Y	E	D	E	T	E	Y	R	D	R	Y	R	R	R	N	R	T	E
RM 1.00	Aug09	10.0	36	4,030	24	2	2	0	4	6	14	4	1.4	2	28	6	24	6	46	2	1.6	6	5	2

Number, Percent, and/or Taxa Composition of Organisms Collected in the Hester-Dendy and Qualitative Samples at Location Wiley Creek Tributary (RM 1.00), August 2009.

TAXA	Hester		Qual
	No.	%	
Turbellaria	5	0.12	X
Oligochaeta	1	0.02	X
Caecidotea	--	--	X
Crangonyx	--	--	X
Baetis intercalaris	8	0.20	--
Baetis flavistriga	48	1.19	X
Calopteryx	--	--	X
Boyeria grafiana	--	--	X
Cheumatopsyche	242	6.00	X
Hydropsyche depravata grp.	418	10.37	X
Ceratopsyche morosa	177	4.39	X
Ceratopsyche sparna	289	7.17	X
Ancyronyx variegata	2	0.05	--
Stenelmis	21	0.52	X
Nilotanytus fimbriatus	288	7.15	--
Thienemannimyia grp.	320	7.94	X
Diamesa	--	--	X
Corynoneura	416	10.32	--
Thienemanniella xena	192	4.76	--
Parametrioctenus	160	3.97	X
Rheocricotopus robacki	32	0.79	--
Synorthocladius	32	0.79	--
Cryptochironomus	--	--	X
Microtendipes	--	--	X
Paratendipes	--	--	X
Phaenopsectra obediens	--	--	X
Polypedilum fallax grp.	64	1.59	--
Polypedilum flavum	288	7.15	--
Polypedilum laetum	--	--	X
Polypedilum scalaenum grp.	64	1.59	X
Stictochironomus	--	--	X
Paratanytarsus	--	--	X
Rheotanytarsus	768	19.06	--
Tanytarsus	--	--	X
Tanytarsus glabrescens grp.	192	4.76	--
Zavrelia	--	--	X
Tipula	1	0.02	X
Hemerodromia	2	0.05	--
Physa	--	--	X
Pisidium	--	--	X
TOTAL	4,030	100.00	
Total Taxa Richness	24		28