Appendix A: Benthic Sampling Results

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/19/2003	Elginfield Drain	Baetidae	Small Mayfly	Nymph	1	4		
	Upstream of Stonehouse	Chironomidae	Midge	Larvae	115	6		
	Road	Chironomidae	Midge	Pupae	2	6		
		Corixidae	Water Boatmen	Adult	22	5		
		Cyclopoida	Fish Lice	Adult	24	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	10	5		
		Elmidae	Riffle Beetle	Larvae	1	4		
		Haliplidae	Crawling Water Beetle	Adult	1	5		
		Lymnaeidae	Pond Snail	Adult	23	6		
		Muscidae	Muscid Fly	Larvae	4	6		
		Nematoda	Thread Worm	Adult	7	-1		
		Oligochaeta	Aquatic Worm	Adult	14	8		
		Ostracoda	Seed Shrimp	Adult	2	8		
		Physidae	Pouch Snail	Adult	1	8		
		Planorbidae	Orb Snail	Adult	27	7		
		Sphaeriidae	Fingernail Clam	Adult	61	8	6.62987	Poor
10/16/2003	Elginfield Drain	Acariformes	Water Mite	Adult	1	4		
	Upstream of	Baetidae	Small Mayfly	Nymph	1	4		
	Stonehouse Road	Ceratopogonidae	Biting Midge	Larvae	9	6		
		Chironomidae	Midge	Larvae	124	6		
		Chironomidae	Midge	Pupae	5	6		
		Cyclopoida	Fish Lice	Adult	8	8		
		Elmidae	Riffle Beetle	Adult	1	4		
		Erpobdellidae	Leech	Adult	1	10		
		Gammaridae	Sideswimmer	Adult	1	4		
		Glossiphoniidae	Leech	Adult	1	8		
		Haliplidae	Crawling Water Beetle	Larvae	1	5		
		Limnephilidae	Northern Caddisfly	Larvae	5	4		
		Lymnaeidae	Pond Snail	Adult	20	6		
		Nematoda	Thread Worm	Adult	1	-1		
		Nemouridae	Stonefly	Nymph	3	2		
		Oligochaeta	Aquatic Worm	Adult	24	8		
		Planorbidae	Orb Snail	Adult	20	7		
		Psychodidae	Sand Fly	Larvae	2	10		
		Rhyacophilidae	Primative Caddisfly	Larvae	1	0		
		Sphaeriidae	Fingernail Clam	Adult	122	8		
		Tabanidae	Horse Fly	Larvae	9	6		
		Talitridae	Sideswimmer	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	1	3	6.842105	Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/25/2000	Elginfield Drain	Ceratopogonidae	Biting Midge	Larvae	3	6		
	Biddulph	Chironomidae	Midge	Larvae	17	6		
		Dytiscidae	Predacious Diving Beetle	Larvae	2	5		
		Elmidae	Riffle Beetle	Larvae	15	4		
		Elmidae	Riffle Beetle	Adult	4	4		
		Haliplidae	Crawling Water Beetle	Larvae	1	5		
		Lymnaeidae	Pond Snail	Adult	5	6		
		Nematoda	Thread Worm	Adult	6	-1		
		Oligochaeta	Aquatic Worm	Adult	35	8		
		Ostracoda	Seed Shrimp	Adult	5	8		
		Physidae	Pouch Snail	Adult	3	8		
		Planorbidae	Orb Snail	Adult	2	7		
		Sphaeriidae	Fingernail Clam	Adult	19	8		
		Talitridae	Sideswimmer	Adult	1	8	6.776786	Poor
6/30/2003	McClary Drain	Asellidae	Sow Bug	Adult	1	8		
	Medway Road,	Ceratopogonidae	Biting Midge	Larvae	11	6		
	roadside	Chironomidae	Midge	Pupae	28	6		
		Chironomidae	Midge	Larvae	295	6		
		Dytiscidae	Predacious Diving Beetle	Larvae	16	5		
		Dytiscidae	Predacious Diving Beetle	Adult	2	5		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	21	4		
		Erpobdellidae	Leech	Adult	1	10		
		Gerridae	Water Strider	Adult	1	-1		
		Hydrophilidae	Water Scavenger Beetle	Adult	3	5		
		Hydrophilidae	Water Scavenger Beetle	Adult	2	5		
		Nematoda	Thread Worm	Adult	10	-1		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Pyralidae	Pyralid Moth	Larvae	1	5		
		Simuliidae	Black Fly		6	6		
		Tabanidae	Horse Fly	Larvae	2	6	E 072727	Fairly Poor
10/16/2002	MaClant Drain			Larvae			5.673737	Fairly Poor
	McClary Drain Medway Road,	Acariformes	Water Mite	Adult	3	4		
	roadside	Asellidae	Sow Bug	Adult	5	8		
		Baetidae	Small Mayfly	Nymph	2			
		Ceratopogonidae	Biting Midge	Larvae	39			
		Chironomidae	Midge	Pupae	1	6		
		Chironomidae	Midge	Larvae	68			
		Coenagrionidae	Narrow-winged Damselfly	Nymph	2	9		
		Corixidae	Water Boatmen	Adult	30			
		Dytiscidae	Predacious Diving Beetle	Larvae	10	5		
		Dytiscidae	Predacious Diving Beetle	Adult	2	5		
		Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	228	4		
		Empididae	Dance Fly	Larvae	3	6		
		Hydrophilidae	Water Scavenger Beetle	Adult	2	5		
		Limnephilidae	Northern Caddisfly	Larvae	1	4		
		Lymnaeidae	Pond Snail	Adult	20	6		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	138	8		
		Phryganeidae	Large Caddisfly	Larvae	3	4		
		Physidae	Pouch Snail	Adult	19	8		
		Planorbidae	Orb Snail	Adult	8	7		

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
		Psychodidae	Sand Fly	Larvae	2	10		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	5	8		
		Stratiomyidae	Soldier Fly	Larvae	4	7		
		Tabanidae	Horse Fly	Larvae	4	6		
		Tipulidae	Crane Fly	Larvae	4	3	5.712871	Fair
5/27/1997	Medway Creek	Acariformes	Water Mite	Adult	1	4		
	South of Windermere	Baetidae	Small Mayfly	Nymph	2	4		
	and west of	Caenidae	Crawling Mayfly	Nymph	2	7		
	Western Road,	Ceratopogonidae	Biting Midge	Larvae	1	6		
	at UWO	Chironomidae	Midge	Pupae	6	6		
		Chironomidae	Midge	Larvae	37	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Adult	9	4		
		Elmidae	Riffle Beetle	Larvae	17	4		
		Empididae	Dance Fly	Larvae	2	6		
		Heptageniidae	Stream Mayfly	Nymph	8	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	5	4		
		Hydroptilidae	Micro-caddisfly	Pupae	1	4		
		Hydroptilidae	Micro-caddisfly	Larvae	3	4		
		Tipulidae	Crane Fly	Larvae	1	3		
		Tricorythidae	Crawling Mayfly	Nymph	1	4	5.051546	Fair
5/29/1998	Medway Creek	Acariformes	Water Mite	Adult	2	4		
	South of Windermere	Baetidae	Small Mayfly	Nymph	9	4		
	and west of	Caenidae	Crawling Mayfly	Nymph	1	7		
	Western Road,	Chironomidae	Midge	Pupae	8	6		
	at UWO	Chironomidae	Midge	Larvae	98	6		
		Elmidae	Riffle Beetle	Adult	6	4		
		Elmidae	Riffle Beetle	Larvae	6	4		
		Empididae	Dance Fly	Pupae	2	6		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	28	4		
		Hydroptilidae	Micro-caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	6		5.45509	Fair
6/3/1998	Medway Creek	Acariformes	Water Mite	Adult	5	-		
	South of Windermere	Baetidae	Small Mayfly	Nymph	2	4		
	and west of	Chironomidae	Midge	Larvae	64	6		
	Western Road, at UWO	Chironomidae	Midge	Pupae	4	6		
	at UVVU	Elmidae	Riffle Beetle	Larvae	10	4		
		Elmidae	Riffle Beetle	Adult	3	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	35	4		
		Hydroptilidae	Micro-caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	12	-		
		Philopotamidae	Finger-net Caddisfly	Larvae	2			
		Sphaeriidae	Fingernail Clam	Adult	8			
		Tipulidae	Crane Fly	Larvae	1	3	5.44898	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/20/1999		Acariformes	Water Mite	Adult	2	4		
		Baetidae	Small Mayfly	Nymph	8	4		
		Caenidae	Crawling Mayfly	Nymph	3	7		
	,	Chironomidae	Midge	Pupae	2	6		
	at UWO	Chironomidae	Midge	Pupae	15	6		
		Chironomidae	Midge	Larvae	49	6		
		Elmidae	Riffle Beetle	Larvae	11	4		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	8	8		
		Ostracoda	Seed Shrimp	Adult	2	8		
		Psephenidae	Water Penny Beetle	Larvae	1	4		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	1	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4	5.731481	Fair
6/30/1999	Medway Creek	Acariformes	Water Mite	Adult	6	4		
		Baetidae	Small Mayfly	Nymph	11	4		
		Caenidae	Crawling Mayfly	Nymph	6	7		
	,	Ceratopogonidae	Biting Midge	Larvae	1	6		
	at UWO	Chironomidae	Midge	Pupae	10	6		
		Chironomidae	Midge	Larvae	69	6		
		Cyclopoida	Fish Lice	Adult	2	8		
		Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	8	4		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	4	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Physidae	Pouch Snail	Adult	1	8		
		Simuliidae	Black Fly	Larvae	2	6		
		Sphaeriidae	Fingernail Clam	Adult	3	8	5.751938	Fairly Poor
6/26/2000		Acariformes	Water Mite	Adult	3	4		
		Baetidae	Small Mayfly	Nymph	3	4		
		Chironomidae	Midge	Pupae	3	6		
	Western Road,	Chironomidae	Midge	Larvae	29	6		
	at UWO	Elmidae	Riffle Beetle	Larvae	16	4		
		Elmidae	Riffle Beetle	Adult	4	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	18	4		
		Isonychiidae	Torpedo Mayfly	Nymph	1	2		
		Nematoda	Thread Worm	Adult	4	-1		
		Oligochaeta	Aquatic Worm	Adult	5	8		
		Physidae	Pouch Snail	Adult	1	8		
		Sialidae	Alderfly	Nymph	3	4		
		Sphaeriidae	Fingernail Clam	Adult	18	8		
		Talitridae	Sideswimmer	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	1	3	5.518868	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/7/2001	,	Acariformes	Water Mite	Adult	12	4		
		Acariformes	Water Mite	Adult	1	4		
	Location	Baetidae	Small Mayfly	Nymph	54	4		
	,	Chironomidae	Midge	Pupae	5	6		
	at UWO	Chironomidae	Midge	Larvae	86	6		
		Elmidae	Riffle Beetle	Larvae	2	4		
		Heptageniidae	Stream Mayfly	Nymph	4	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	42	4		
		Oligochaeta	Aquatic Worm	Adult	59	8		
		Siphlonuridae	Swimming Mayfly	Nymph	1	7		
		Sphaeriidae	Fingernail Clam	Adult	6	8		
		Tipulidae	Crane Fly	Larvae	2	3		
		Tricorythidae	Crawling Mayfly	Nymph	1	4	5.610909	Fair
6/10/2002		Baetidae	Small Mayfly	Nymph	7	4		
		Caenidae	Crawling Mayfly	Nymph	1	7		
		Chironomidae	Midge	Larvae	169	6		
	,	Elmidae	Riffle Beetle	Larvae	2	4		
	at UWO	Heptageniidae	Stream Mayfly	Nymph	11	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	4	4		
		Oligochaeta	Aquatic Worm	Adult	117	8		
		Oligoneuridae	Torpedo Mayfly	Nymph	1	2		
		Sphaeriidae	Fingernail Clam	Adult	3	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4	6.591772	Poor
6/21/2002		Acariformes	Water Mite	Adult	5	4		
		Baetidae	Small Mayfly	Nymph	2	4		
		Caenidae	Crawling Mayfly	Nymph	1	4		
	,	Chironomidae	Midge	Pupae	20	4		
	at UWO	Chironomidae	Midge	Larvae	137	7		
		Elmidae	Riffle Beetle	Larvae	2	7		
		Hydrophilidae	Water Scavenger Beetle	Larvae	1	6		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	11	6		
		Hydroptilidae	Micro-caddisfly	Larvae	8	6		
		Oligochaeta	Aquatic Worm	Adult	47	6		
		Psephenidae	Water Penny Beetle	Larvae	1	4		
		Tipulidae	Crane Fly	Larvae	1	4	6.139831	Fairly Poor
		Acariformes	Water Mite	Adult	4	4		
		Baetidae	Small Mayfly	Nymph	10	4		
		Caenidae	Crawling Mayfly	Nymph	2	5		
		Chironomidae	Midge	Pupae	23	4		
		Chironomidae	Midge	Larvae	133	4		
		Elmidae	Riffle Beetle	Larvae	7	4		
		Elmidae	Riffle Beetle	Adult	3	4		
		Heptageniidae	Stream Mayfly	Nymph	6	8		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	5	8		
		Hydroptilidae	Micro-caddisfly	Larvae	4	2		
		Oligochaeta	Aquatic Worm	Adult	3	4		
		Oligoneuridae	Torpedo Mayfly	Nymph	2	4		
		Psephenidae	Water Penny Beetle	Larvae	2	8		
		Sphaeriidae	Fingernail Clam	Adult	2	3	5.621359	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/2/2003		Acariformes	Water Mite	Adult	1	4		
		Baetidae	Small Mayfly	Nymph	22	4		
	and west of	Caenidae	Crawling Mayfly	Nymph	5	7		
	Le Location 2003 Medway Creek South of Windermere	Chironomidae	Midge	Pupae	14	6		
	at UWO	Chironomidae	Midge	Larvae	59	6		
		Elmidae	Riffle Beetle	Larvae	2	4		
		Elmidae	Riffle Beetle	Adult	2	4		
		Heptageniidae	Stream Mayfly	Nymph	3	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	2	4		
		Hydroptilidae	Micro-caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	57	8		
		Plecoptera	Stonefly	Nymph	1	2		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Simuliidae	Black Fly	Pupae	1	6		
		Simuliidae	Black Fly	Larvae	2	6		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Trichoptera	Caddisfly	Pupae	1	-1		
		Tricorythidae	Crawling Mayfly	Nymph	2	4	6.240223	Fairly Poor
6/14/2004		Acariformes	Water Mite	Adult	5	4		
		Baetidae	Small Mayfly	Nymph	15	4		
		Caenidae	Crawling Mayfly	Nymph	2	7		
		Chironomidae	Midge	Pupae	12	6		
	at UWO	Chironomidae	Midge	Larvae	124	6		
		Elmidae	Riffle Beetle	Adult	3	4		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Heptageniidae	Stream Mayfly	Nymph	3	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	10	4		
		Oligochaeta	Aquatic Worm	Adult	40	8		
		Oligoneuridae	Torpedo Mayfly	Nymph	3	2		
		Perlidae	Stonefly	Nymph	1	1		
		Simuliidae	Black Fly	Larvae	7	6		
		Sphaeriidae	Fingernail Clam	Adult	6	8		
		Tricorythidae	Crawling Mayfly	Nymph	3	4	5.962185	Fairly Poor
5/16/2005		Acariformes	Water Mite	Adult	8	4		
		Baetidae	Small Mayfly	Nymph	9	4		
		Caenidae	Crawling Mayfly	Nymph	4	7		
		Chironomidae	Midge	Pupae	15	6		
	at UWO	Chironomidae	Midge	Larvae	108	6		
		Elmidae	Riffle Beetle	Larvae	1	4		
		Empididae	Dance Fly	Larvae	5	6		
		Ephemerellidae	Mayfly	Nymph	2	1		
		Heptageniidae	Stream Mayfly	Nymph	6	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	2	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	38	8		
		Perlidae	Stonefly	Nymph	4	1		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Tipulidae	Crane Fly	Larvae	2	3		
		Tricorythidae	Crawling Mayfly	Nymph	3	4	5.938389	Fairly Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/6/2005	Medway Creek	Acariformes	Water Mite	Adult	16	4		
	South of Windermere	Baetidae	Small Mayfly	Nymph	9	4		
	and west of	Caenidae	Crawling Mayfly	Nymph	6	7		
	Western Road,	Chironomidae	Midge	Pupae	12	6		
	at UWO	Chironomidae	Midge	Larvae	137	6		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	12	4		
		Empididae	Dance Fly	Pupae	1	6		
		Heptageniidae	Stream Mayfly	Nymph	8	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	25	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Perlidae	Stonefly	Nymph	3	1		
		Philopotamidae	Finger-net Caddisfly	Larvae	3	3		
		Simuliidae	Black Fly	Pupae	1	6		
		Simuliidae	Black Fly	Larvae	2	6		
		Sphaeriidae	Fingernail Clam	Adult	4	8		
		Tricorythidae	Crawling Mayfly	Nymph	2	4	5.770492	Fairly Poor
5/29/2006	Medway Creek	Acariformes	Water Mite	Adult	5	4		
	South of Windermere	Baetidae	Small Mayfly	Nymph	20	4		
	and west of	Caenidae	Crawling Mayfly	Nymph	2	7		
	Western Road,	Ceratopogonidae	Biting Midge	Larvae	1	6		
	at UWO	Chironomidae	Midge	Pupae	14	6		
		Chironomidae	Midge	Larvae	99	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Larvae	24	4		
		Empididae	Dance Fly	Pupae	1	6		
		Heptageniidae	Stream Mayfly	Nymph	5	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	46	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	21	8		
		Perlidae	Stonefly	Nymph	1	1		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Philopotamidae	Finger-net Caddisfly	Pupae	1	3		
		Psephenidae	Water Penny Beetle	Larvae	4	4		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	14	8	5.448276	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/31/2007		Acariformes	Water Mite	Adult	3	4		
	ate Location	Baetidae	Small Mayfly	Nymph	20	4		
		Caenidae	Crawling Mayfly	Nymph	3	7		
		Chironomidae	Midge	Pupae	34	6		
	at UWO	Chironomidae	Midge	Larvae	122	6		
		Cyclopoida	Fish Lice	Adult	3	8		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Heptageniidae	Stream Mayfly	Nymph	3	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	17	4		
		Hydroptilidae	Micro-caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	37	8		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	2	4	5.917647	Fairly Poor
6/23/1997		Acariformes	Water Mite	Adult	3	4		
	9 Mile Road	Caenidae	Crawling Mayfly	Nymph	4	7		
		Chironomidae	Midge	Pupae	8	6		
		Chironomidae	Midge	Larvae	115	6		
		Elmidae	Riffle Beetle	Adult	5	4		
		Elmidae	Riffle Beetle	Larvae	5	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	32	8		
		Perlidae	Stonefly	Nymph	2	1		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Tipulidae	Crane Fly	Larvae	3	3		
		Tricorythidae	Crawling Mayfly	Nymph	2	4	6.115385	Fairly Poor
5/26/1998	Medway Creek	Caenidae	Crawling Mayfly	Nymph	5	7		
	9 Mile Road	Chironomidae	Midge	Pupae	1	6		
		Chironomidae	Midge	Larvae	93	6		
		Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	5	4		
		Empididae	Dance Fly	Larvae	1	6		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Planorbidae	Orb Snail	Adult	1	7		
		Trichoptera	Caddisfly	Larvae	1	-1	6.017391	Fairly Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/11/1999	Medway Creek	Acariformes	Water Mite	Adult	7	4		
	9 Mile Road	Caenidae	Crawling Mayfly	Nymph	3	7		
		Chironomidae	Midge	Larvae	64	6		
		Chironomidae	Midge	Pupae	3	6		
		Elmidae	Riffle Beetle	Adult	3	4		
		Elmidae	Riffle Beetle	Larvae	9	4		
		Ephemerellidae	Mayfly	Nymph	1	1		
		Lymnaeidae	Pond Snail	Adult	2	6		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	3	8		
		Ostracoda	Seed Shrimp	Adult	3	8		
		Planorbidae	Orb Snail	Adult	3	7		
		Sphaeriidae	Fingernail Clam	Adult	4	8		
		Stratiomyidae	Soldier Fly	Larvae	1	7		
		Talitridae	Sideswimmer	Adult	2	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	2	4	5.837838	Fairly Poor
10/4/2000	Medway Creek	Acariformes	Water Mite	Adult	7	4		
	9 Mile Road	Chironomidae	Midge	Larvae	45	6		
		Chironomidae	Midge	Pupae	4	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Larvae	7	4		
		Elmidae	Riffle Beetle	Adult	2	4		
		Empididae	Dance Fly	Larvae	3	6		
		Ephemerellidae	Mayfly	Nymph	3	1		
		Helicopsychidae	Snail-case Caddisfly	Larvae	1	3		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	29	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	4	4		
		Limnephilidae	Northern Caddisfly	Larvae	3	4		
		Nemouridae	Stonefly	Nymph	1	2		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Simuliidae	Black Fly	Larvae	2	6		
		Sphaeriidae	Fingernail Clam	Adult	6	8		
		Tipulidae	Crane Fly	Larvae	2	3	5.016129	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
3/12/2001	Medway Creek	Acariformes	Water Mite	Adult	19	4		
	9 Mile Road	Caenidae	Crawling Mayfly	Nymph	8	7		
		Capniidae	Stonefly	Nymph	1	1		
		Chironomidae	Midge	Larvae	110	6		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Elmidae	Riffle Beetle	Adult	1	4		
		Empididae	Dance Fly	Larvae	3	6		
		Ephemerellidae	Mayfly	Nymph	7	1		
		Heptageniidae	Stream Mayfly	Nymph	3	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	41	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	2	4		
		Limnephilidae	Northern Caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	8	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	4	3		
		Rhyacophilidae	Primative Caddisfly	Larvae	1	0		
		Simuliidae	Black Fly	Larvae	8	6		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Talitridae	Sideswimmer	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Turbellaria	Flatworm	Adult	4	4	5.204348	Fair
6/20/2001	Medway Creek	Acariformes	Water Mite	Adult	17	4		
	9 Mile Road	Baetidae	Small Mayfly	Nymph	3	4		
		Chironomidae	Midge	Larvae	46	6		
		Chironomidae	Midge	Pupae	3	6		
		Corydalidae	Dobsonfly	Nymph	1	0		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	28	4		
		Empididae	Dance Fly	Larvae	2	6		
		Ephemerellidae	Mayfly	Nymph	2	1		
		Ephydridae	Shore Fly	Larvae	1	6		
		Gammaridae	Sideswimmer	Adult	1	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	72	4		
		Hydroptilidae	Micro-caddisfly	Pupae	1	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	1	4		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Perlidae	Stonefly	Nymph	1	1		
		Philopotamidae	Finger-net Caddisfly	Larvae	2	3		
		Physidae	Pouch Snail	Adult	1	8		
		Sialidae	Alderfly	Nymph	1	4		
		Sphaeriidae	Fingernail Clam	Adult	44	8		
		Tipulidae	Crane Fly	Larvae	4	3		
		Tricorythidae	Crawling Mayfly	Nymph	4	4		
		Turbellaria	Flatworm	Adult	4	4		
		Veliidae	Ripple Bug	Adult	1	-1	5.116183	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
	Medway Creek	Acariformes	Water Mite	Adult	6	4		
	9 Mile Road	Baetidae	Small Mayfly	Nymph	2	4		
		Caenidae	Crawling Mayfly	Nymph	68	7		
		Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Larvae	18	6		
		Chironomidae	Midge	Pupae	3	6		
		Chordata	Incidentals	Adult	1	-1		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	3	9		
		Elmidae	Riffle Beetle	Adult	5	4		
		Elmidae	Riffle Beetle	Larvae	18	4		
		Empididae	Dance Fly	Larvae	3	6		
		Ephemerellidae	Mayfly	Nymph	10	1		
		Helicopsychidae	Snail-case Caddisfly	Larvae	6	3		
		Heptageniidae	Stream Mayfly	Nymph	25	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	13	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	3	4		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	8	3		
		Physidae	Pouch Snail	Adult	1	8		
		Psephenidae	Water Penny Beetle	Larvae	5	4		
		Sialidae	Alderfly	Nymph	2	4		
		Tipulidae	Crane Fly	Larvae	1	3		
		Turbellaria	Flatworm	Adult	6	4	5.115385	Fair
	Medway Creek	Acariformes	Water Mite	Adult	2	4		
	9 Mile Road	Baetidae	Small Mayfly	Nymph	4	4		
		Caenidae	Crawling Mayfly	Nymph	4	7		
		Chironomidae	Midge	Pupae	6	6		
		Chironomidae	Midge	Larvae	150	6		
		Cyclopoida	Fish Lice	Adult	1	8		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	96	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Perlidae	Stonefly	Nymph	4	1		
		Physidae	Pouch Snail	Adult	4	8		
		Sphaeriidae	Fingernail Clam	Adult	7	8		
		Turbellaria	Flatworm	Adult	1	4	6.624561	Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
10/28/2002	Medway Creek	Acariformes	Water Mite	Adult	12	4		
	9 Mile Road	Ancylidae	Limpet	Adult	1	6		
		Baetidae	Small Mayfly	Nymph	1	4		
		Caenidae	Crawling Mayfly	Nymph	23	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	2	5		
		Capniidae	Stonefly	Nymph	4	1		
		Ceratopogonidae	Biting Midge	Larvae	4	6		
		Chironomidae	Midge	Larvae	98	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	6	9		
		Elmidae	Riffle Beetle	Larvae	20	4		
		Elmidae	Riffle Beetle	Adult	1	4		
		Empididae	Dance Fly	Larvae	3	6		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Helicopsychidae	Snail-case Caddisfly	Larvae	4	3		
		Heptageniidae	Stream Mayfly	Nymph	1	4		
		Hydrophilidae	Water Scavenger Beetle	Larvae	1	5		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	6	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	8	4		
		Limnephilidae	Northern Caddisfly	Larvae	2	4		
		Lymnaeidae	Pond Snail	Adult	3	6		
		Oligochaeta	Aquatic Worm	Adult	3	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	2	3		
		Psephenidae Psephenidae	Water Penny Beetle	Larvae	1	4		
		Sphaeriidae	Fingernail Clam	Adult	10	8		
		Taeniopterygidae	Stonefly	Nymph	1	2		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	3	4		
		Veliidae	Ripple Bug	Adult	1	-1	5.596413	Fair
6/2/2003	Medway Creek	Acariformes	Water Mite	Adult	1	4		
0.2.200	9 Mile Road	Baetidae	Small Mayfly	Nymph	2	4		
		Caenidae	Crawling Mayfly	Nymph	5	4		
			Biting Midge	Larvae	4	7		
		Chironomidae	Midge	Pupae	18	7		
		Chironomidae	Midge	Larvae	141	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	6		
		Corydalidae	Dobsonfly	Nymph	1	6		
		Elmidae	Riffle Beetle	Larvae	33	6		
		Elmidae	Riffle Beetle	Adult	3	6		
		Empididae	Dance Fly	Larvae	3	6		
		Helicopsychidae	Snail-case Caddisfly	Larvae	6	6		
		Hydropsychidae	Net-spinning Caddisfly		1	9		
			,	Larvae	1			
		Hydroptilidae	Micro-caddisfly	Larvae	2	9		
		Leptoceridae	Long-horned Caddisfly	Larvae	1			
		Nematoda	Thread Worm	Adult	3	8		
		Oligochaeta	Aquatic Worm	Adult	52	5		
		Ostracoda	Seed Shrimp	Adult	6	5		
		Perlidae	Stonefly Revelo Credit	Nymph	28	4		
		Physidae	Pouch Snail	Adult	1	4		
		Simuliidae Sphaeriidae	Black Fly Fingernail Clam	Larvae Adult	9	4		

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
		Acariformes	Water Mite	Adult	13	1		
		Caenidae	Crawling Mayfly	Nymph	20	4		
		Cambaridae	Crayfish	Adult	1	5		
		Ceratopogonidae	Biting Midge	Larvae	2	3		
		Chironomidae	Midge	Pupae	12	4		
		Chironomidae	Midge	Larvae	154	4		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	4		
		Cyclopoida	Fish Lice	Adult	10	4		
		Dytiscidae	Predacious Diving Beetle	Adult	1	4		
		Dytiscidae	Predacious Diving Beetle	Larvae	2	4		
		Elmidae	Riffle Beetle	Adult	3	4		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Ephemerellidae	Mayfly	Nymph	1	-1		
		Ephemeridae	Burrowing Mayfly	Nymph	1	8		
		Haliplidae	Crawling Water Beetle	Larvae	1	8		
		Heptageniidae	Stream Mayfly	Nymph	1	8		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	1		
		Hydroptilidae	Micro-caddisfly	Larvae	2	1		
		Leptoceridae	Long-horned Caddisfly	Larvae	1	8		
		Limnephilidae	Northern Caddisfly	Larvae	2	6		
		Oligochaeta	Aquatic Worm	Adult	101	6		
		Perlidae	Stonefly	Nymph	18	8		
		Simuliidae	Black Fly	Larvae	1	8		
		Sphaeriidae	Fingernail Clam	Adult	2	3	6.264789	Fairly Poor
10/27/2003	Medway Creek	Acariformes	Water Mite	Adult	20	4		
	9 Mile Road	Ancylidae	Limpet	Adult	1	6		
		Baetidae	Small Mayfly	Nymph	1	4		
		Caenidae	Crawling Mayfly	Nymph	4	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	2	5		
		Capniidae	Stonefly	Nymph	9	1		
		Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Larvae	105	6		
		Chironomidae	Midge	Pupae	2	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	13	4		
		Empididae	Dance Fly	Larvae	4	6		
		Ephemerellidae	Mayfly	Nymph	1	1		
		Helicopsychidae	Snail-case Caddisfly	Larvae	1	3		
		Heptageniidae	Stream Mayfly	Nymph	7	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	7	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	2	4		
		Lymnaeidae	Pond Snail	Adult	1	6		
		Oligochaeta	Aquatic Worm	Adult	2	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Sphaeriidae	Fingernail Clam	Adult	19	8		
		Taeniopterygidae	Stonefly	Nymph	2	2		
		Tipulidae	Crane Fly	Larvae	1	3	5.413462	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/14/2004	Medway Creek	Acariformes	Water Mite	Adult	2	4		
	9 Mile Road	Baetidae	Small Mayfly	Nymph	6	4		
		Ceratopogonidae	Biting Midge	Larvae	2	6		
		Chironomidae	Midge	Larvae	125	6		
		Chironomidae	Midge	Pupae	6	6		
		Dytiscidae	Predacious Diving Beetle	Larvae	2	5		
		Elmidae	Riffle Beetle	Larvae	13	4		
		Elmidae	Riffle Beetle	Adult	6	4		
		Empididae	Dance Fly	Larvae	1	6		
		Empididae	Dance Fly	Pupae	1	6		
		Ephemerellidae	Mayfly	Nymph	2	1		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	4	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Perlidae	Stonefly	Nymph	10	1		
		Physidae	Pouch Snail	Adult	4	8		
		Planorbidae	Orb Snail	Adult	1	7		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Sialidae	Alderfly	Nymph	1	4		
		Sphaeriidae	Fingernail Clam	Adult	9	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Turbellaria	Flatworm	Adult	5	4	5.488152	Fair
10/6/2004	Medway Creek	Acariformes	Water Mite	Adult	10	4		
	9 Mile Road	Ancylidae	Limpet	Adult	2	6		
		Brachycentridae	Brachycentrid Caddisfly	Larvae	1	1		
		Caenidae	Crawling Mayfly	Nymph	8	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	7	5		
		Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Pupae	1	6		
		Chironomidae	Midge	Larvae	55	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	11	9		
		Elmidae	Riffle Beetle	Adult	3	4		
		Elmidae	Riffle Beetle	Larvae	31	4		
		Empididae	Dance Fly	Larvae	2	6		
		Ephemerellidae	Mayfly	Nymph	9	1		
		Helicopsychidae	Snail-case Caddisfly	Larvae	5	3		
		Heptageniidae	Stream Mayfly	Nymph	38	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	28	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	7			
		Limnephilidae	Northern Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Psephenidae	Water Penny Beetle	Larvae	3			
		Sialidae	Alderfly	Nymph	3			
		Sphaeriidae	Fingernail Clam	Adult	3			
		Talitridae	Sideswimmer	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	4	3		
		Turbellaria	Flatworm	Adult	3		4.786611	Good

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/16/2005	Medway Creek	Acariformes	Water Mite	Adult	11	4		
	9 Mile Road	Ancylidae	Limpet	Adult	1	6		
		Caenidae	Crawling Mayfly	Nymph	8	7		
		Ceratopogonidae	Biting Midge	Larvae	4	6		
		Chironomidae	Midge	Pupae	8	6		
		Chironomidae	Midge	Larvae	128	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Elmidae	Riffle Beetle	Larvae	26	4		
		Elmidae	Riffle Beetle	Adult	6	4		
		Empididae	Dance Fly	Larvae	6	6		
		Ephemerellidae	Mayfly	Nymph	16	1		
		Gammaridae	Sideswimmer	Adult	1	4		
		Helicopsychidae	Snail-case Caddisfly	Larvae	9	3		
		Heptageniidae	Stream Mayfly	Nymph	12	4		
		Hydropsychidae	Net-spinning Caddisfly	Pupae	1	4		
		Lepidostomatidae	Lepistomatid Caddisfly	Larvae	3	1		
		Leptoceridae	Long-horned Caddisfly	Larvae	1	4		
		Limnephilidae	Northern Caddisfly	Larvae	3	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	3	8		
		Perlidae	Stonefly	Nymph	21	1		
	5	Simuliidae	Black Fly	Larvae	5	6		
		Sphaeriidae	Fingernail Clam	Adult	3	8		
	1	Tabanidae	Horse Fly	Larvae	1	6		
		Talitridae	Sideswimmer	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	11	3	4.769759	Good
10/2/2005	Medway Creek	Acariformes	Water Mite	Adult	14	4	4.703733	Good
10/3/2003	9 Mile Road	Ancylidae	Limpet	Adult	3	6		
		Brachycentridae	Brachycentrid Caddisfly		1	1		
		Caenidae	Crawling Mayfly	Larvae Nymph	40	7		
					19	5		
		Calopterygidae	Broad-winged Damselfly	Nymph	19			
			Biting Midge	Larvae	1	6 6		
		Chironomidae	Midge	Pupae				
		Chironomidae	Midge	Larvae	98			
		Coenagrionidae	Narrow-winged Damselfly	Nymph	20	 		
		Elmidae	Riffle Beetle	Larvae	60	l		
		Elmidae	Riffle Beetle	Adult	4	4		
		Empididae	Dance Fly	Larvae	2	6		
		Ephemerellidae	Mayfly	Nymph	28			
		Gerridae	Water Strider	Adult	1	-1		
		Helicopsychidae	Snail-case Caddisfly	Larvae	10	3		
		Heptageniidae	Stream Mayfly	Nymph	41	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	33	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	6	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	5	8		
		Physidae	Pouch Snail	Adult	7	8		
		Psephenidae	Water Penny Beetle	Larvae	5	4		
		Sialidae	Alderfly	Nymph	1	4		
		Sphaeriidae	Fingernail Clam	Adult	13	8		
		Taeniopterygidae	Stonefly	Nymph	3	2		

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
		Veliidae	Ripple Bug	Adult	3	-1	5.08134	Fair
5/29/2006	Medway Creek	Acariformes	Water Mite	Adult	16	4		
	9 Mile Road	Ancylidae	Limpet	Adult	1	6		Health
		Asellidae	Sow Bug	Adult	3	8		
		Caenidae	Crawling Mayfly	Nymph	7	7		
		Capniidae	Stonefly	Nymph	1	1		
		Chironomidae	Midge	Larvae	108	6		
		Chironomidae	Midge	Pupae	20	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	5	9		
		Elmidae	Riffle Beetle	Adult	6	4		
		Elmidae	Riffle Beetle	Larvae	82	4		
		Empididae	Dance Fly	Larvae	8	6		
		Ephemerellidae	Mayfly	Nymph	3	1		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Helicopsychidae	Snail-case Caddisfly	Pupae	4	3		
		Helicopsychidae	Snail-case Caddisfly	Larvae	2	3		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	7	4		
		Hydroptilidae	Micro-caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	5	8		
		Perlidae	Stonefly	Nymph	7	1		
		Physidae	Pouch Snail	Adult	4	8		
		Psephenidae	Water Penny Beetle	Larvae	•			
		Sphaeriidae	Fingernail Clam	Adult	13			
		Talitridae	Sideswimmer	Adult	1	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	1	4	5 210692	Fair
9/28/2006	Medway Creek	Acariformes	Water Mite	Adult	13	4	0.210002	ı uıı
3/20/2000	9 Mile Road	Aeshnidae	Dragonfly	Nymph	9	3		
		Ancylidae	Limpet	Adult	1	6		
		Baetidae	Small Mayfly	Nymph	2	4		
		Brachycentridae	Brachycentrid Caddisfly	Larvae	3	1		
		Caenidae	Crawling Mayfly	Nymph	5	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	4	5		
		Ceratopogonidae	Biting Midge		1	6		
		Chironomidae	Midge	Larvae	78	6		
		Chironomidae	Midge	Larvae	5	6		
			_	Pupae	12			
		Cyclonoida	Narrow-winged Damselfly Fish Lice	Nymph Adult	12	8		
		Cyclopoida			2	4		
		Elmidae	Riffle Beetle	Adult		4		
		Elmidae	Riffle Beetle	Larvae	19			
		Empididae	Dance Fly	Larvae	6	6		
		Ephemerellidae	Mayfly Durraning Mayfly	Nymph	29	1		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Gammaridae	Sideswimmer	Adult	1	4		
ļ		Helicopsychidae	Snail-case Caddisfly	Larvae	33	3		
		Heptageniidae	Stream Mayfly	Nymph	5			
		Hydropsychidae	Net-spinning Caddisfly	Larvae	48			
		Leptoceridae	Long-horned Caddisfly	Larvae	15			
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	2	8		

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
		Physidae	Pouch Snail	Adult	1	8		
		Pisauridae	Fisher Spider	Adult	1	-1		
		Psephenidae	Water Penny Beetle	Larvae	5	4		
		Sphaeriidae	Fingernail Clam	Adult	15	8		
		Tipulidae	Crane Fly	Larvae	3	3		
		Turbellaria	Flatworm	Adult	4	4		
		Viviparidae	Snail	Adult	1	6	4.606154	Good
5/28/2007	Medway Creek	Acariformes	Water Mite	Adult	18	4		
	9 Mile Road	Asellidae	Sow Bug	Adult	1	8		
		Baetidae	Small Mayfly	Nymph	1	4		
		Caenidae	Crawling Mayfly	Nymph	14	7		
		Chironomidae	Midge	Pupae	31	6		
		Chironomidae	Midge	Larvae	181	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	2	9		
		Dytiscidae	Predacious Diving Beetle	Larvae	2	5		
		Elmidae	Riffle Beetle	Adult	7	4		
		Elmidae	Riffle Beetle	_	40	4		
			Dance Fly	Larvae				
		Empididae		Pupae	8	6		
		Empididae	Dance Fly	Larvae				
			Mayfly	Nymph	18	1		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Hebridae	Sphagnum Bug	Adult	1	-1		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	3	4		
		Oligochaeta	Aquatic Worm	Adult	2	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Perlidae	Stonefly	Nymph	1	1		
		Physidae	Pouch Snail	Adult	1	8		
		Psephenidae	Water Penny Beetle	Larvae	3	4		
		Simuliidae	Black Fly	Pupae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	6	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	3	4	5.389685	Fair
9/21/2007	Medway Creek	Acariformes	Water Mite	Adult	15	4		
	9 Mile Road	Ancylidae	Limpet	Adult	4	6		
		Baetidae	Small Mayfly	Nymph	5	4		
		Caenidae	Crawling Mayfly	Nymph	125	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	4	5		
		Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Larvae	102	6		
		Chironomidae	Midge	Pupae	4	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	30	9		
		Collembola	Springtail	Adult	1	5		
		Corydalidae	Dobsonfly	Nymph	2	0		
		Culicidae	Mosquito	Larvae	2	8		
		Cyclopoida	Fish Lice	Adult	2	8		
		Elmidae	Riffle Beetle	Adult	10	4		
		Elmidae	Riffle Beetle	Larvae	36			
		Empididae	Dance Fly	Larvae	1	6		
		Ephemerellidae	Mayfly	Nymph	25	1		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Helicopsychidae	Snail-case Caddisfly	Larvae	1	3		

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
		Heptageniidae	Stream Mayfly	Nymph	8	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	3	4		
		Limnephilidae	Northern Caddisfly	Larvae	3	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	2	8		
		Physidae	Pouch Snail	Adult	1	8		
		Psephenidae	Water Penny Beetle	Larvae	33	4		
		Pyralidae	Pyralid Moth	Larvae	2	5		
		Sciomyzidae	Snail Killing Fly	Larvae	1	-1		
		Sialidae	Alderfly	Nymph	2	4		
		Sphaeriidae	Fingernail Clam	Adult	14	8		
		Talitridae	Sideswimmer	Adult	3	8		
		Turbellaria	Flatworm	Adult	4	4		
		Veliidae	Ripple Bug	Adult	1	-1	5.721973	Fair
6/15/1999	Medway Creek	Acariformes	Water Mite	Adult	2	4		
	At Malloy Plant	Caenidae	Crawling Mayfly	Nymph	2	7		
		Ceratopogonidae	Biting Midge	Larvae	2	6		
		Chironomidae	Midge	Pupae	3	6		
		Chironomidae	Midge	Larvae	75	6		
		Cyclopoida	Fish Lice	Adult	5	8		
		Daphniidae	Water Flea	Adult	1	8		
		Oligochaeta	Aquatic Worm	Adult	15	8	6.380952	Fairly Poor
	Medway Creek	Acariformes	Water Mite	Adult	13	4		
	Near Outlet at	Baetidae	Small Mayfly	Nymph	22	4		
	UWO	Caenidae	Crawling Mayfly	Nymph	2	7		
		Chironomidae	Midge	Pupae	4	6		
		Chironomidae	Midge	Larvae	52	6		
		Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	18	4		
		Empididae	Dance Fly	Larvae	1	6		
		Heptageniidae	Stream Mayfly	Nymph	4	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	89	4		
		Psephenidae	Water Penny Beetle	Larvae	3	4		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	14	8		
		Talitridae	Sideswimmer	Adult	1	8	4.806167	Good

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
10/25/2004	Medway Creek		TBE	Larvae				
	North of Fanshawe Park	Acariformes	Water Mite	Adult	6	4		Health
	Road	Brachycentridae	Brachycentrid Caddisfly	Larvae	1	1		
		Capniidae	Stonefly	Nymph	3	1		
		Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Larvae	109	6		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	11	4		
		Ephemerellidae	Mayfly	Nymph	2	1		
		Gammaridae	Sideswimmer	Adult	1	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	9	4		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	4	3		
		Polycentropodidae	Caddisfly	Larvae	1	6		
		Psephenidae	Water Penny Beetle	Larvae	1	4		
		Sphaeriidae	Fingernail Clam	Adult	14	8		
		Taeniopterygidae	Stonefly	Nymph	2	2		
		Tipulidae	Crane Fly	Larvae	1	3		
		Tricorythidae	Crawling Mayfly	Nymph	59	4		
		Turbellaria	Flatworm	Adult	11	4	5.071429	Fair
10/27/2004	Medway Creek	Acariformes	Water Mite	Adult	19	4		
	South of	Caenidae	Crawling Mayfly	Nymph	29	7		
	Medway Road	Ceratopogonidae	Biting Midge	Larvae	5	6		
		Chironomidae	Midge	Larvae	163	6		
		Daphniidae	Water Flea	Adult	1	8		
		Elmidae	Riffle Beetle	Larvae	4	4		
		Elmidae	Riffle Beetle	Adult	3	4		
		Empididae	Dance Fly	Larvae	1	6		
		Ephemerellidae	Mayfly	Nymph	1	1		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	73	4		
		Hydroptilidae	Micro-caddisfly	Larvae	3	4		
		Nematoda	Thread Worm	Adult	3	-1		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	3	3		
		Sphaeriidae	Fingernail Clam	Adult	4	8		
		Turbellaria	Flatworm	Adult	2	4	5.460568	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/28/2007	Medway Creek	Acariformes	Water Mite	Adult	4	4		
	South of	Baetidae	Small Mayfly	Nymph	11	4		Health
	Medway Road	Caenidae	Crawling Mayfly	Nymph	10	7		
		Ceratopogonidae	Biting Midge	Larvae	8	6		tic ex Health
		Chironomidae	Midge	Pupae	25	6		
		Chironomidae	Midge	Larvae	89	6		
		Cyclopoida	Fish Lice	Adult	5	8		
		Elmidae	Riffle Beetle	Adult	7	4		
		Elmidae	Riffle Beetle	Larvae	9	4		
		Empididae	Dance Fly	Larvae	2	6		
		Glossosomatidae	Caddisfly	Larvae	1	0		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	4	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	142	8		
		Simuliidae	Black Fly	Larvae	5	6		
		Simuliidae	Black Fly	Pupae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	3	8		
		Turbellaria	Flatworm	Adult	2	4	6.70122	Poor
10/2/2007	Medway Creek	Acariformes	Water Mite	Adult	15	4		Poor
	South of	Baetidae	Small Mayfly	Nymph	1	4		
	Medway Road	Caenidae	Crawling Mayfly	Nymph	35	7		
		Ceratopogonidae	Biting Midge	Larvae	3	6		
		Chironomidae	Midge	Pupae	4	6		
		Chironomidae	Midge	Larvae	191	6		
		Cyclopoida	Fish Lice	Adult	1	8		
		Daphniidae	Water Flea	Adult	1	8		
		Elmidae	Riffle Beetle	Larvae	14	4		
		Ephemeridae	Burrowing Mayfly	Nymph	1	4		
		Helicopsychidae	Snail-case Caddisfly	Larvae	1	3		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	41	4		
		Hydroptilidae	Micro-caddisfly	Larvae	2	4		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	3	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	5	3		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Rhyacophilidae	Primative Caddisfly	Larvae	1	0		
		Sphaeriidae	Fingernail Clam	Adult	8	8		
		Tricorythidae	Crawling Mayfly	Nymph	3	4		
		Turbellaria	Flatworm	Adult	2	4	5.625749	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
5/28/2007	Medway Creek	Acariformes	Water Mite	Adult	3	4		
	12 Mile Road	Baetidae	Small Mayfly	Nymph	2	4		
		Caenidae	Crawling Mayfly	Nymph	11	7		Health 49 Fair
		Ceratopogonidae	Biting Midge	Larvae	6	6		
		Chironomidae	Midge	Pupae	38	6		
		Chironomidae	Midge	Larvae	130	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Adult	7	4		
		Elmidae	Riffle Beetle	Larvae	29	4		
		Empididae	Dance Fly	Larvae	2	6		
		Empididae	Dance Fly	Pupae	1	6		
		Heptageniidae	Stream Mayfly	Nymph	3	4		
		Hydroptilidae	Micro-caddisfly	Pupae	1	4		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Perlidae	Stonefly	Nymph	4	1		
		Physidae	Pouch Snail	Adult	1	8		
		Simuliidae	Black Fly	Larvae	14	6		
	ļ	Sphaeriidae	Fingernail Clam	Adult	7	8	5.701149	Fair
7/19/2005	Medway Creek	Acariformes	Water Mite	Adult	7	4		
	Downstream of	Baetidae	Small Mayfly	Nymph	10	4		
	Sunningdale Road	Caenidae	Crawling Mayfly	Nymph	13	7		9 Fair
		Chironomidae	Midge	Pupae	3	6		
		Chironomidae	Midge	Larvae	92	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Elmidae	Riffle Beetle	Adult	9	4		
		Elmidae	Riffle Beetle	Larvae	15	4		
		Empididae	Dance Fly	Larvae	2	6		
		Ephemerellidae	Mayfly	Nymph	5	1		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	7	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	2	4		
		Oligochaeta	Aquatic Worm	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	18	3		
		Psephenidae	Water Penny Beetle	Larvae	1	4		
		Sphaeriidae	Fingernail Clam	Adult	46	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Trichoptera	Caddisfly	Pupae	1	-1		
		Tricorythidae	Crawling Mayfly	Nymph	13	4		
		Valvatidae	Round-mouthed Snail	Adult	1	8		
		Veliidae	Ripple Bug	Adult	1	-1	5.590361	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
10/17/2005	Medway Creek	Acariformes	Water Mite	Adult	8	4		
	Downstream of	Baetidae	Small Mayfly	Nymph	1	4		
	Sunningdale Road	Caenidae	Crawling Mayfly	Nymph	9	7		
		Ceratopogonidae	Biting Midge	Larvae	3	6		
		Chironomidae	Midge	Larvae	110	6		
		Daphniidae	Water Flea	Adult	3	8		
		Elmidae	Riffle Beetle	Adult	5	4		
		Elmidae	Riffle Beetle	Larvae	7	4		
		Empididae	Dance Fly	Larvae	3	6		
		Ephemerellidae	Mayfly	Nymph	3	1		
		Heptageniidae	Stream Mayfly	Nymph	5	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	7	4		
		Hydrozoa	Hydra	Adult	2	5		
		Nematoda	Thread Worm	Adult	3	-1		
		Oligochaeta	Aquatic Worm	Adult	4	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	15	3		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	27	8		
		Tricorythidae	Crawling Mayfly	Nymph	1	4		
		Turbellaria	Flatworm	Adult	14	4	5.630435	Fair
7/19/2005	Medway Creek	Acariformes	Water Mite			4		
	Sunningdale upstream of	Baetidae	Small Mayfly	Nymph	2	4		
	Golf Course	Caenidae	Crawling Mayfly	Nymph	6	7		
		Chironomidae	Midge	Larvae	70	6		
		Elmidae	Riffle Beetle	Adult	7	4		
		Elmidae	Riffle Beetle	Larvae	32	4		
		Empididae	Dance Fly	Pupae	1	6		
		Ephemerellidae	Mayfly	Nymph	7	1		
		Helicopsychidae	Snail-case Caddisfly	Nymph	1	3		
		Heptageniidae	Stream Mayfly	Nymph	2	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	17	4		
		Leptoceridae	Long-horned Caddisfly	Larvae	5	4		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	20	3		
		Psephenidae	Water Penny Beetle	Larvae	2	4		
		Sialidae	Alderfly	Nymph	1	4		
		Sphaeriidae	Fingernail Clam	Adult	48	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Tricorythidae	Crawling Mayfly	Nymph	10	4		
		Turbellaria	Flatworm	Adult	1	4	5.393305	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
10/17/2005	Medway Creek	Acariformes	Water Mite	Adult	13	4		
	Sunningdale upstream of	Baetidae	Small Mayfly	Nymph	1	4		
	Golf Course	Caenidae	Crawling Mayfly	Nymph	17	7		
		Calopterygidae	Broad-winged Damselfly	Nymph	1	5		
		Chironomidae	Midge	Larvae	50	6		
		Chironomidae	Midge	Pupae	1	6		
		Cyclopoida	Fish Lice	Adult	1	8		
		Elmidae	Riffle Beetle	Larvae	18	4		
		Elmidae	Riffle Beetle	Adult	5	4		
		Ephemerellidae	Mayfly	Nymph	17	1		
		Glossiphoniidae	Leech	Adult	1	8		
		Glossosomatidae	Caddisfly	Larvae	1	0		
		Heptageniidae	Stream Mayfly	Nymph	20	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	15	4		
		Hydroptilidae	Micro-caddisfly	Larvae	1	4		
		Hydrozoa	Hydra	Adult	1	5		
		Leptoceridae	Long-horned Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	10	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	12	3		
		Polycentropodidae	Caddisfly	Larvae	6	6		
		Simuliidae	Black Fly	Larvae	3	6		
		Sphaeriidae	Fingernail Clam	Adult	23	8		
		Tabanidae	Horse Fly	Larvae	1	6		
		Tricorythidae	Crawling Mayfly	Nymph	3	4		
		Turbellaria	Flatworm	Adult	11	4	5.064378	Fair
6/11/1999	Medway Creek	Asellidae	Sow Bug	Adult	2	8		
	Tributary	Chironomidae	Midge	Pupae	3	6		
	Fox Hollow	Chironomidae	Midge	Larvae	24	6		
		Cyclopoida	Fish Lice	Adult	3	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Hydrophilidae	Water Scavenger Beetle	Larvae	1	5		
		Hydrozoa	Hydra	Adult	1	5		
		Muscidae	Muscid Fly	Larvae	1	6		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	78	8		
		Physidae	Pouch Snail	Adult	7	8		
		Simuliidae	Black Fly	Larvae	2	6		
		Simuliidae	Black Fly	Pupae	1	6	7.427419	Very Poor
6/20/2000	Medway Creek	Acariformes	Water Mite	Adult	2	4		-
	Tributary	Chironomidae	Midge	Larvae	28	6		
	Fox Hollow	Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Hydrophilidae	Water Scavenger Beetle	Adult	1	5		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	45	8		
		Physidae	Pouch Snail	Adult	4	8		
		Planorbidae	Orb Snail	Adult	7	7		
		Simuliidae	Black Fly	Larvae	26	6		
		Tabanidae	Horse Fly	Larvae	1		6.86087	Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
10/3/2001	Medway Creek	Acariformes	Water Mite	Adult	1	4		
	Tributary Fox Hollow	Asellidae	Sow Bug	Adult	26	8		
	1 OX 1 IOIIOW	Chironomidae	Midge	Larvae	3	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Gammaridae	Sideswimmer	Adult	3	4		
		Hirudinidae	Leech	Adult	1	8		
		Oligochaeta	Aquatic Worm	Adult	12	8		
		Physidae	Pouch Snail	Adult	1	8	7.5625	Very Poor
6/11/1999	Medway Creek	Acariformes	Water Mite	Adult	1	4		
	Tributary Off	Ceratopogonidae	Biting Midge	Larvae	5	6		
	Sunningdale	Chironomidae	Midge	Larvae	133	6		
	Road	Chironomidae	Midge	Pupae	3	6		
		Corixidae	Water Boatmen	Adult	11	5		
		Elmidae	Riffle Beetle	Larvae	8	4		
		Elmidae	Riffle Beetle	Adult	4	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Oligochaeta	Aquatic Worm	Adult	135	8		
		Physidae	Pouch Snail	Adult	1	8		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	2	8		
		Talitridae	Sideswimmer	Adult	3	8	6.788961	Poor
7/1/1998	Medway Creek	Acariformes	Water Mite	Adult	1	4	00000.	
77 17 1000	Tributary	Baetidae	Small Mayfly	Nymph	1	4		
	East Tributary	Caenidae	Crawling Mayfly	Nymph	1	7		
	at Adelaide Street	Chironomidae	Midge	Larvae	101	6		
	0001	Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	4	4		
				_	1	4		
		Hydroptilidae	Micro-caddisfly Aquatic Worm	Larvae	6	8	E 057065	Fairly Poor
2/42/2004	Madusas Caral	Oligochaeta		Adult			5.957205	Falliy Poor
3/12/2001	Medway Creek Tributary	Acariformes	Water Mite	Adult	41	4		
	East Tributary	Baetidae	Small Mayfly	Nymph	6	4		
	at Adelaide	Caenidae	Crawling Mayfly	Nymph	50	7		
	Street	Capniidae	Stonefly	Nymph	9	1		
		Chironomidae	Midge	Larvae	82	6		
		Chironomidae	Midge	Pupae	1	6		
		Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	7	4		
		Empididae	Dance Fly	Larvae	2			
		Heptageniidae	Stream Mayfly	Nymph	4	4		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	5			
		Leptoceridae	Long-horned Caddisfly	Larvae	2			
		Oligochaeta	Aquatic Worm	Adult	7	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Psephenidae	Water Penny Beetle	Larvae	1	4		
		Rhyacophilidae	Primative Caddisfly	Larvae	1	0		
		Simuliidae	Black Fly	Larvae	1	6		
		Sphaeriidae	Fingernail Clam	Adult	1	8		
		Talitridae	Sideswimmer	Adult	2	8		
		Turbellaria	Flatworm	Adult	1	4	5.466667	Fair

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/20/2003	Mills Drain	Acariformes	Water Mite	Adult	1	4		
	Highbury Road	Chironomidae	Midge	Larvae	100	6		
		Chironomidae	Midge	Pupae	5	6		
		Corixidae	Water Boatmen	Adult	50	5		
		Cyclopoida	Fish Lice	Adult	3	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	3	5		
		Elmidae	Riffle Beetle	Larvae	2	4		
		Lymnaeidae	Pond Snail	Adult	23	6		
		Muscidae	Muscid Fly	Larvae	1	6		
		Nematoda	Thread Worm	Adult	5	-1		
		Oligochaeta	Aquatic Worm	Adult	307	8		
		Physidae	Pouch Snail	Adult	7	8		
	Planorbidae	Orb Snail	Adult	6	7			
		Sphaeriidae	Fingernail Clam	Adult	1	8	7.145383	Poor
10/16/2003 Mills Drain		Chironomidae	Midge	Larvae	19	6		
	Highbury Road	Corixidae	Water Boatmen	Adult	7	5		
		Cyclopoida	Fish Lice	Adult	2	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Gammaridae	Sideswimmer	Adult	1	4		
		Haliplidae	Crawling Water Beetle	Adult	1	5		
		Lymnaeidae	Pond Snail	Adult	25	6		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	199	8		
		Physidae	Pouch Snail	Adult	11	8		
		Planorbidae	Orb Snail	Adult	15	7		
		Rhyacophilidae	Primative Caddisfly	Larvae	1	0		
		Sphaeriidae	Fingernail Clam	Adult	20	8		
		Valvatidae	Round-mouthed Snail	Adult	63	8	7.610959	Very Poor
6/11/1999	Snake Creek	Chironomidae	Midge	Larvae	81	6		
	Fox Hollow	Chironomidae	Midge	Pupae	2	6		
		Corixidae	Water Boatmen	Adult	1	5		
		Cyclopoida	Fish Lice	Adult	1	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	4	5		
		Elmidae	Riffle Beetle	Larvae	1	4		
		Lymnaeidae	Pond Snail	Adult	56	6		
		Nematoda	Thread Worm	Adult	48	-1		
		Oligochaeta	Aquatic Worm	Adult	17	8		
		Ostracoda	Seed Shrimp	Adult	13	8		
		Planorbidae	Orb Snail	Adult	11	7		
		Simuliidae	Black Fly	Larvae	6	6	6.341969	Fairly Poor
6/20/2000	Snake Creek	Chironomidae	Midge	Pupae	8	6		
	Fox Hollow	Chironomidae	Midge	Larvae	61	6		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	23	8		
		Physidae	Pouch Snail	Adult	1	8		
		Planorbidae	Orb Snail	Adult	1	7		
		Simuliidae	Black Fly	Larvae	12		6.439252	Fairly Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
11/5/2002	Snake Creek	Chironomidae	Midge	Pupae	1	6		
	Fox Hollow	Chironomidae	Midge	Larvae	73	6		
		Empididae	Dance Fly	Larvae	1	6		
		Gammaridae	Sideswimmer	Adult	20	4		
		Oligochaeta	Aquatic Worm	Adult	6	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Turbellaria	Flatworm	Adult	99	4	4.860697	Good
10/17/2005	Snake Creek	Asellidae	Sow Bug	Adult	6	8		
	Fox Hollow	Ceratopogonidae	Biting Midge	Larvae	1	6		
		Chironomidae	Midge	Larvae	30	6		
		Chironomidae	Midge	Pupae	1	6		
		Coenagrionidae	Narrow-winged Damselfly	Nymph	1	9		
		Cyclopoida	Fish Lice	Adult	22	8		
		Empididae	Dance Fly	Larvae	2	6		
		Gammaridae	Sideswimmer	Adult	73	4		
		Oligochaeta	Aquatic Worm	Adult	51	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Philopotamidae	Finger-net Caddisfly	Larvae	1	3		
		Simuliidae	Black Fly	Larvae	4	6		
		Sphaeriidae	Fingernail Clam	Adult	1	8		
		Tipulidae	Crane Fly	Larvae	1	3		
		Turbellaria	Flatworm	Adult	7	4	5.99505	Fairly Poor
6/23/1997	WF Drain Adelaide Street east of Birr	Caenidae	Crawling Mayfly	Nymph	1	7		
		Chironomidae	Midge	Larvae	60	6		
	east of bill	Chironomidae	Midge	Pupae	1	6		
		Elmidae	Riffle Beetle	Larvae	2	4		
		Elmidae	Riffle Beetle	Adult	1	4		
		Glossiphoniidae	Leech	Adult	11	8		
		Hydrophilidae	Water Scavenger Beetle	Larvae	1	5		
		Nematoda	Thread Worm	Adult	2	-1		
		Oligochaeta	Aquatic Worm	Adult	15	8		
		Perlidae	Stonefly	Nymph	1	1		
		Physidae	Pouch Snail	Adult	1	8		
		Simuliidae	Black Fly	Larvae	1	6		
		Talitridae	Sideswimmer	Adult	1	8	6.46875	Fairly Poor
6/24/1998		Chironomidae	Midge	Larvae	63	6		
	Adelaide Street	Corixidae	Water Boatmen	Adult	10	5		
	east of Birr	Elmidae	Riffle Beetle	Larvae	5	4		
		Glossiphoniidae	Leech	Adult	1	8		
		Oligochaeta	Aquatic Worm	Adult	44	8		
		Ostracoda	Seed Shrimp	Adult	9	8	6.666667	Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/15/1999		Chironomidae	Midge	Larvae	31	6		
	Adelaide Street east of Birr	Chironomidae	Midge	Pupae	5	6		
	east of Bill	Corixidae	Water Boatmen	Adult	10	5		
		Cyclopoida	Fish Lice	Adult	2	8		
		Daphniidae	Water Flea	Adult	7	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	1	5		
		Elmidae	Riffle Beetle	Adult	3	4		
		Erpobdellidae	Leech	Adult	1	10		
		Glossiphoniidae	Leech	Adult	1	8		
		Haliplidae	Crawling Water Beetle	Larvae	4	5		
		Lymnaeidae	Pond Snail	Adult	10	6		
		Oligochaeta	Aquatic Worm	Adult	2	8		
		Ostracoda	Seed Shrimp	Adult	2	8		
		Physidae	Pouch Snail	Adult	22	8		
		Planorbidae	Orb Snail	Adult	45	7		
		Simuliidae	Black Fly	Larvae	1	6		
		Stratiomyidae	Soldier Fly	Larvae	1	7	6.682432	Poor
6/23/1997	WF Drain	Chironomidae	Midge	Larvae	96	6		
	Adelaide Street east of Birr	Chironomidae	Midge	Pupae	3	6		
	east of bill	Elmidae	Riffle Beetle	Adult	1	4		
		Elmidae	Riffle Beetle	Larvae	1	4		
		Gammaridae	Sideswimmer	Adult	1	4		
		Glossiphoniidae	Leech	Adult	1	8		
		Hydrophilidae	Water Scavenger Beetle	Adult	1	5		
		Hydrophilidae	Water Scavenger Beetle	Larvae	1	5		
		Hydropsychidae	Net-spinning Caddisfly	Larvae	1	4		
		Hydroptilidae	Micro-caddisfly	Larvae	1	4		
		Nematoda	Thread Worm	Adult	1	-1		
		Simuliidae	Black Fly	Pupae	1	6		
		Simuliidae	Black Fly	Larvae	3	6	5.90991	Fairly Poor
6/24/1998	-	Chironomidae	Midge	Larvae	66	6		
	Adelaide Street	Corixidae	Water Boatmen	Adult	3	5		
	east of Birr	Elmidae	Riffle Beetle	Larvae	6	4		
		Elmidae	Riffle Beetle	Adult	1	4		
		Glossiphoniidae	Leech	Adult	11	8		
		Haliplidae	Crawling Water Beetle	Larvae	5	5		
		Hydrophilidae	Water Scavenger Beetle	Larvae	2	5		
		Lymnaeidae	Pond Snail	Adult	1	6		
		Oligochaeta	Aquatic Worm	Adult	29			
		Talitridae	Sideswimmer	Adult	5	8	6.511628	Poor

Sample Date	Watercourse & Location	Taxonomic Name	Common Name	Life Stage	Number of Individuals	Biotic Index	Family Biotic Index	Stream Health
6/15/1999		Chironomidae	Midge	Larvae	108	6		
	Adelaide Street east of Birr	Chironomidae	Midge	Pupae	6	6		
	east of bill	Corixidae	Water Boatmen	Adult	20	5		
		Cyclopoida	Fish Lice	Adult	16	8		
		Daphniidae	Water Flea	Adult	19	8		
		Dytiscidae	Predacious Diving Beetle	Larvae	7	5		
		Elmidae	Riffle Beetle	Adult	2	4		
		Elmidae	Riffle Beetle	Larvae	1	4		
		Glossiphoniidae	Leech	Adult	1	8		
		Haliplidae	Crawling Water Beetle	Larvae	6	5		
		Hydrophilidae	Water Scavenger Beetle	Larvae	2	5		
		Isotomidae	Springtail	Adult	1	5		
		Lymnaeidae	Pond Snail	Adult	4	6		
		Nematoda	Thread Worm	Adult	1	-1		
		Oligochaeta	Aquatic Worm	Adult	8	8		
		Ostracoda	Seed Shrimp	Adult	1	8		
		Physidae	Pouch Snail	Adult	4	8		
		Planorbidae	Orb Snail	Adult	18	7		
		Simuliidae	Black Fly	Larvae	5	6		
		Tipulidae	Crane Fly	Larvae	1	3	6.308696	Fairly Poor
6/15/1999		Chironomidae	Midge	Larvae	4	6		
	Off Prospect Hill Road	Cyclopoida	Fish Lice	Adult	14	8		
	HIII Koad	Nematoda	Thread Worm	Adult	102	-1		
		Oligochaeta	Aquatic Worm	Adult	47	8	7.876923	Very Poor

Appendix B: Fish Sampling Records

Watercourse	Location	Sample Date	e Source	Common Name	Scientific Name	Species	at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
Elginfield Drain	Highway 23	9/20/1999 UTRCA		Central Mudminnow	Umbra limi	-		Abundant
				Common Carp	Cyprinus carpio			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Northern Pike	Esox lucius			Common
		8/6/2008 UTRCA		Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	Observatory Drive	9/20/1999	UTRCA	Common Carp	Cyprinus carpio			Abundant
				Least Darter	Etheostoma microperca			Common
	Downstream of Stonehouse	8/6/2008 UTRCA		Common Shiner	Luxilus cornutus			Abundant
	Rd			Northern Pike	Esox lucius			Common
				Striped Shiner	Luxilus chrysocephalus			Abundant
	u/s Stonehouse Road	12/1/2003	UTRCA	No Fish Found				
Heard Drain	Aldersbrook Road	9/29/1999	UTRCA	Brook Stickleback	Culaea inconstans			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
McClary Dr	Medway Road, roadside	11/18/2003	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Largemouth Bass	Micropterus salmoides			Abundant
				Mimic Shiner	Notropis volucellus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
				Quillback	Carpiodes cyprinus		•	Uncommon
I				Rock Bass	Ambloplites rupestris			Abundant
I				Spotfin Shiner	Cyprinella spiloptera			Abundant
I				Striped Shiner	Luxilus chrysocephalus			Abundant
I				White Sucker	Catostomus commersoni			Abundant
Medway Creek >8 km west of Arva on	6/2/1975	ROM	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon	
	Concession VI-VII			Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
1				Common Shiner	Luxilus cornutus			Abundant
I				Creek Chub	Semotilus atromaculatus			Abundant
I				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Redfin Shiner	Lythrurus umbratilis			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	0.7 km upstream of mouth,	8/13/1936	ROM	Pumpkinseed	Lepomis gibbosus			Abundant
	second bridge upstream from mouth			Rock Bass	Ambloplites rupestris			Abundant
		11/25/1997	ROM	Blackside Darter	Percina maculata			Abundant
I				Fantail Darter	Etheostoma flabellare			Abundant
I				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Species	at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
	•			Johnny Darter	Etheostoma nigrum			Abundant
				Longnose Dace	Rhinichthys cataractae			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	1.3 km E of Hwy 4 on Conc	5/30/1975	ROM	Black Bullhead	Ameiurus melas			Common
	XIV			Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
			Common Shiner	Luxilus cornutus			Abundant	
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Rosyface Shiner	Notropis rubellus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
	12th Mile	7/1/1978	J. Grant	Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
•			•	Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Northern Pike	Esox lucius			Common
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
		7/16/2007	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Longear Sunfish	Lepomis megalotis			Common
				Mimic Shiner	Notropis volucellus			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/6/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant

Watercourse	Location	Sample Date Sour	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
vvatercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
		1		Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Longear Sunfish	Lepomis megalotis			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
•	16th Mile	7/1/1978	J. Grant	Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Longear Sunfish	Lepomis megalotis			Common

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
vatercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				White Sucker	Catostomus commersoni			Abundant
		8/6/2008	UTRCA	Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Bullhead	Ameiurus natalis			Common
				Yellow Perch	Perca flavescens			Common
•	8th Mile	7/1/1978	J. Grant	Blackside Darter	Percina maculata			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
•	At Arva	8/13/1936	ROM	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Longear Sunfish	Lepomis megalotis			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				River Chub	Nocomis micropogon			Common
				Rosyface Shiner	Notropis rubellus			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
	Below Arva Dam	7/30/2002	DFO	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Longear Sunfish	Lepomis megalotis			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				White Sucker	Catostomus commersoni			Abundant
		4/13/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Bluntnose Minnow	Pimephales notatus			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
<u>.</u>				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		5/15/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				White Sucker	Catostomus commersoni			Abundant
		4/18/2008	UTRCA	Common Carp	Cyprinus carpio			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
		7/16/2008	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluegill	Lepomis macrochirus			Common
				Bluntnose Minnow	Pimephales notatus			Abundant
				Common Carp	Cyprinus carpio			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	ocientine Name	Provincial	Federal	Distribution
				Golden Redhorse	Moxostoma erythrurum		•	Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Longear Sunfish	Lepomis megalotis			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Redhorse	Moxostoma anisurum			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
	beside UWO Chemistry	6/4/1975	ROM	Blackside Darter	Percina maculata			Abundant
	parking lot			Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Striped Shiner	Luxilus chrysocephalus			Abundant
		5/3/2003	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Cample Bate	Cource	Gommon Name	Ocientino Name	Provincial	Federal	Distribution
·		•		Striped Shiner	Luxilus chrysocephalus		•	Abundant
				Yellow Perch	Perca flavescens			Common
		7/24/2003	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Longnose Dace	Rhinichthys cataractae			Common
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Quillback	Carpiodes cyprinus			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		11/2/2005	UTRCA	Black Crappie	Pomoxis nigromaculatus			Uncommon
				Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Longnose Dace	Rhinichthys cataractae			Common
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		4/20/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Bluntnose Minnow	Pimephales notatus			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				River Chub	Nocomis micropogon			Common
				Rock Bass	Ambloplites rupestris			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Silver Redhorse	Moxostoma anisurum			Common
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant

5/10/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Thr	Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Bluntnose Minnow Pimephales notatus Abuncomment Common Carp Cyprinus carpio Cyprinus Carpio	Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
Common Carp Cyprinus carpio Abunt Common Carp Cyprinus carpio Abunt Fantail Darter Etheostoma flabellare Abunt Golden Redhorse Moxostoma erythrurum Greenside Darter Etheostoma blennioides Special Concern Not at Risk Abunt Mimic Shiner Notropis volucellus Special Concern Not at Risk Abunt Northern Hog Sucker Hypentellium nigricans Abunt Quillback Carpiodes cyprinus Uncor Rock Bass Ambloplites rupestris Abunt Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma anisurum Common Smallmouth Bass Micropterus dolomieu Abunt Striped Shiner Cyprinella spiloptera Abunt Striped Shiner Luxilus chrysocephalus White Sucker Catostomus commersoni Abunt Moxostoma duquesnei Threatened Threatened Uncor Black Redhorse Moxostoma duquesnei Threatened Threatened Bluntnose Minnow Pimephales notatus Central Stoneroller Campostoma anomalum Abunt Central Stoneroller Campostoma anomalum Abunt Common Carp Cyprinus carpio Abunt			5/10/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
Common Carp Cyprinus carpio Fantail Darter Etheostoma flabellare Golden Redhorse Greenside Darter Moxostoma erythrurum Greenside Darter Motropis volucellus Northern Hog Sucker Quillback Carpiodes cyprinus Rock Bass Ambioplites rupestris Shorthead Redhorse Moxostoma anisurum Common Spotfin Shiner Spotfin Shiner Cyprinella spiloptera Striped Shiner White Sucker Catestomus commersoni Threatened Threatened Uncoo Stri7/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Uncoo Spotfin Shiner Cyprinella spiloptera Abun Moxostoma macrolephalus Abun Abun Catestomus commersoni Threatened Uncoo Spotfin Shiner Catestomus commersoni Threatened Uncoo Spotfin Shiner Percina maculata Bluntnose Minnow Pimephales notatus Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abun Abun Common Carp Cyprinus carpio					Bluntnose Minnow	Pimephales notatus			Abundant
Fantail Darter Etheostoma flabellare Abunt Golden Redhorse Moxostoma erythrurum Abunt Greenside Darter Etheostoma blennioides Special Concern Not at Risk Abunt Mimic Shiner Notropis volucellus Abunt Northern Hog Sucker Hypentelium nigricans Abunt Quillback Carpiodes cyprinus Uncol Rock Bass Amblopities rupestris Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma macrolepidotum Common Spotfin Shiner Cyprinella spiloptera Abunt Spotfin Shiner Cyprinella spiloptera Abunt Striped Shiner Luxillus chrysocephalus Abunt White Sucker Gatostomus commersoni Threatened Threatened Uncol Black Redhorse Moxostoma duquesnei Threatened Threatened Uncol Blackside Darter Percina maculata Abunt Central Stoneroller Campostoma anomalum Abunt Central Stoneroller Campostoma anomalum Abunt Common Carp Cyprinus carpio Abunt Golden Redhorse Moxostoma erythrurum Abunt					Common Carp	Cyprinus carpio			Abundant
Golden Redhorse Moxostoma erythrurum Abunu Greenside Darter Etheostoma blennioides Special Concern Not at Risk Abunu Mimic Shiner Notropis volucellus Special Concern Not at Risk Abunu Northerm Hog Sucker Hypentellium nigricans Abunu Quillback Carpiodes cyprinus Uncord Rock Bass Ambloplites rupestris Abunu Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma anisurum Common Smallmouth Bass Micropterus dolomieu Abunu Spotfin Shiner Cyprinella spiloptera Abunu Striped Shiner Luxillus chrysocephalus Abunu White Sucker Catostomus commersoni Threatened Threatened Uncord Black Redhorse Moxostoma duquesnei Threatened Threatened Uncord Black Redhorse Moxostoma duquesnei Threatened Abunu Bluntnose Minnow Pimephales notatus Abunu Central Stoneroller Campostoma anomalum Abunu Common Carp Cyprinus carpio Abunu Abunu Abunu Abunu Common Carp Cyprinus carpio Abunu					Common Carp	Cyprinus carpio			Abundant
Greenside Darter Etheostoma blennioides Special Concern Not at Risk Abunt Mimic Shiner Notropis volucellus Abunt Northern Hog Sucker Hypentelium nigricans Abunt Quillback Carpiodes cyprinus Uncor Rock Bass Amblopiltes rupestris Abunt Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma anisurum Common Smallmouth Bass Micropterus dolomieu Abunt Spotfin Shiner Cyprinella spiloptera Abunt Striped Shiner Luxilus chrysocephalus Abunt White Sucker Catostomus commersoni Threatened Threatened Uncor Black Redhorse Moxostoma duquesnei Threatened Threatened Uncor Blackside Darter Percina maculata Abunt Bluntnose Minnow Pimephales notatus Abunt Central Stoneroller Campostoma anomalum Abunt Golden Redhorse Moxostoma enythrurum Abunt Abunt Golden Redhorse Moxostoma enythrurum					Fantail Darter	Etheostoma flabellare			Abundant
Mimic Shiner Notropis volucellus Abunt Northern Hog Sucker Hypentelium nigricans Abunt Quillback Carpiodes cyprinus Uncor Rock Bass Ambloplites rupestris Abunt Shorthead Redhorse Moxostoma macrolepidotum Comm Silver Redhorse Moxostoma anisurum Comm Smallmouth Bass Micropterus dolomieu Abunt Spotfin Shiner Cyprinella spiloptera Abunt Striped Shiner Luxilus chrysocephalus Abunt White Sucker Catostomus commersoni Abunt 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Uncor Blackside Darter Percina maculata Abunt Central Stoneroller Campostoma anomalum Abunt Common Carp Cyprinus carpio Abunt Golden Redhorse Moxostoma erythrurum					Golden Redhorse	Moxostoma erythrurum			Abundant
Northern Hog Sucker Hypentellium nigricans Abunic Quillback Carpiodes cyprinus Uncol Rock Bass Ambloplites rupestris Abunic Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma anisurum Common Silver Redhorse Moxostoma anisurum Abunic Spotfin Shiner Cyprinella spiloptera Striped Shiner Luxilus chrysocephalus Abunic Striped Shiner Abunic Striped Shiner Catostomus commersoni Abunic Silver Redhorse Moxostoma duquesnei Threatened Threatened Uncol Black Redhorse Moxostoma duquesnei Threatened Threatened Abunic Bluntnose Minnow Pimephales notatus Abunic Central Stoneroller Campostoma anomalum Abunic Common Carp Cyprinus carpio Abunic Golden Redhorse Moxostoma erythrurum Abunic Golden Redhorse Moxostoma erythrurum					Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
Quillback Carpiodes cyprinus Uncol Rock Bass Ambloplites rupestris Abunt Shorthead Redhorse Moxostoma macrolepidotum Comm Silver Redhorse Moxostoma anisurum Comm Smallmouth Bass Micropterus dolomieu Abunt Spotfin Shiner Cyprinella spiloptera Abunt Striped Shiner Luxilus chrysocephalus Abunt White Sucker Catostomus commersoni Abunt 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Uncol Blackside Darter Percina maculata Abunt Bluntnose Minnow Pimephales notatus Abunt Central Stoneroller Campostoma anomalum Abunt Common Carp Cyprinus carpio Abunt Golden Redhorse Moxostoma erythrurum Abunt					Mimic Shiner	Notropis volucellus			Abundant
Rock Bass Ambloplites rupestris Abunc Shorthead Redhorse Moxostoma macrolepidotum Comm Silver Redhorse Moxostoma anisurum Comm Smallmouth Bass Micropterus dolomieu Abunc Spotfin Shiner Cyprinella spiloptera Abunc Striped Shiner Luxilus chrysocephalus Abunc White Sucker Catostomus commersoni Abunc 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Unco Blackside Darter Percina maculata Abunc Central Stoneroller Campostoma anomalum Abunc Common Carp Cyprinus carpio Abunc Golden Redhorse Moxostoma erythrurum Abunc					Northern Hog Sucker	Hypentelium nigricans			Abundant
Shorthead Redhorse Moxostoma macrolepidotum Common Silver Redhorse Moxostoma anisurum Common Smallmouth Bass Micropterus dolomieu Abunu Spotfin Shiner Cyprinella spiloptera Abunu Striped Shiner Luxilus chrysocephalus Abunu White Sucker Catostomus commersoni Abunu Silver Catostomus commersoni Threatened Threatened Uncol Black Redhorse Moxostoma duquesnei Threatened Threatened Uncol Blackside Darter Percina maculata Abunu Central Stoneroller Campostoma anomalum Abunu Common Carp Cyprinus carpio Abunu Golden Redhorse Moxostoma erythrurum Abunu					Quillback	Carpiodes cyprinus			Uncommon
Silver Redhorse Moxostoma anisurum Commos Smallmouth Bass Micropterus dolomieu Abund Spotfin Shiner Cyprinella spiloptera Abund Striped Shiner Luxilus chrysocephalus Abund White Sucker Catostomus commersoni Abund 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Uncord Blackside Darter Percina maculata Abund Bluntnose Minnow Pimephales notatus Abund Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abund Golden Redhorse Moxostoma erythrurum Abund					Rock Bass	Ambloplites rupestris			Abundant
Smallmouth Bass Micropterus dolomieu Abund Spotfin Shiner Cyprinella spiloptera Abund Striped Shiner Luxilus chrysocephalus Abund White Sucker Catostomus commersoni Abund 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Uncol Blackside Darter Percina maculata Abund Bluntnose Minnow Pimephales notatus Abund Central Stoneroller Campostoma anomalum Abund Common Carp Cyprinus carpio Abund Golden Redhorse Moxostoma erythrurum Abund					Shorthead Redhorse	Moxostoma macrolepidotum			Common
Spotfin Shiner Cyprinella spiloptera Abunca Striped Shiner Luxilus chrysocephalus Abunca White Sucker Catostomus commersoni Abunca Striped UTRCA Black Redhorse Moxostoma duquesnei Threatened Uncor Blackside Darter Percina maculata Abunca Bluntnose Minnow Pimephales notatus Abunca Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abunca Golden Redhorse Moxostoma erythrurum Abunca Abunca Abunca Golden Redhorse Moxostoma erythrurum Abunca					Silver Redhorse	Moxostoma anisurum			Common
Striped Shiner Luxilus chrysocephalus White Sucker Catostomus commersoni Abund 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Threatened Uncol Blackside Darter Percina maculata Abund Bluntnose Minnow Pimephales notatus Abund Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abund Golden Redhorse Moxostoma erythrurum					Smallmouth Bass	Micropterus dolomieu			Abundant
White Sucker Catostomus commersoni 5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Uncol Blackside Darter Percina maculata Abunc Bluntnose Minnow Pimephales notatus Abunc Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abunc Golden Redhorse Moxostoma erythrurum Abunc					Spotfin Shiner	Cyprinella spiloptera			Abundant
5/17/2006 UTRCA Black Redhorse Moxostoma duquesnei Threatened Uncol Blackside Darter Percina maculata Abunc Bluntnose Minnow Pimephales notatus Abunc Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abunc Golden Redhorse Moxostoma erythrurum Abunc					Striped Shiner	Luxilus chrysocephalus			Abundant
Blackside Darter Percina maculata Abunca Bluntnose Minnow Pimephales notatus Abunca Central Stoneroller Campostoma anomalum Abunca Common Carp Cyprinus carpio Abunca Golden Redhorse Moxostoma erythrurum Abunca Abunca Abunca Abunca Common Carp Common Carp Cyprinus carpio Abunca Carpio Cyprinus Carpio					White Sucker	Catostomus commersoni			Abundant
Bluntnose Minnow Pimephales notatus Abund Central Stoneroller Campostoma anomalum Common Carp Cyprinus carpio Abund Golden Redhorse Moxostoma erythrurum Abund			5/17/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
Central Stoneroller Campostoma anomalum Abund Common Carp Cyprinus carpio Abund Golden Redhorse Moxostoma erythrurum Abund					Blackside Darter	Percina maculata			Abundant
Common Carp Cyprinus carpio Abune Golden Redhorse Moxostoma erythrurum Abune					Bluntnose Minnow	Pimephales notatus			Abundant
Golden Redhorse Moxostoma erythrurum Abund					Central Stoneroller	Campostoma anomalum			Abundant
· ·					Common Carp	Cyprinus carpio			Abundant
Greenside Darter Etheostoma blennioides Special Concern Not at Risk Abund					Golden Redhorse	Moxostoma erythrurum			Abundant
·			Gi	Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant	
Johnny Darter Etheostoma nigrum Abund				Johnny Darter	Etheostoma nigrum			Abundant	
Largemouth Bass Micropterus salmoides Abund					Largemouth Bass	Micropterus salmoides			Abundant
Northern Hog Sucker Hypentelium nigricans Abund					Northern Hog Sucker	Hypentelium nigricans			Abundant
Quillback Carpiodes cyprinus Uncor					Quillback	Carpiodes cyprinus			Uncommon

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
				Rock Bass	Ambloplites rupestris			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Silver Redhorse	Moxostoma anisurum			Common
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		5/15/2008	UTRCA	Blackside Darter	Percina maculata			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Longnose Dace	Rhinichthys cataractae			Common
				Longnose Gar	Lepisosteus osseus			Uncommon
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Quillback	Carpiodes cyprinus			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Silver Redhorse	Moxostoma anisurum			Common
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant

/atercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
atercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
				Striped Shiner	Luxilus chrysocephalus	•		Abundant
	Downstream of Snake Creek	9/8/2002	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	Granton Line	7/1/1978	J. Grant	Brook Stickleback	Culaea inconstans			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
	Medway Road	8/13/1936	ROM	Longear Sunfish	Lepomis megalotis			Common
		7/1/1978	J. Grant	Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	es at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
·				Johnny Darter	Etheostoma nigrum	·		Abundant
				Least Darter	Etheostoma microperca			Common
				Longnose Dace	Rhinichthys cataractae			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Quillback	Carpiodes cyprinus			Uncommon
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Stonecat	Noturus flavus			Abundant
				White Sucker	Catostomus commersoni			Abundant
				Yellow Perch	Perca flavescens			Common
		10/27/2004	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Green Sunfish	Lepomis cyanellus			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
<u> </u>				Northern Pike	Esox lucius	•		Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				White Sucker	Catostomus commersoni			Abundant
		7/16/2007	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Quillback	Carpiodes cyprinus			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/20/2008	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant

/atercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
atercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
•	Near Elginfield	8/13/1936 F	ROM	Brassy Minnow	Hybognathus hankinsoni			Uncommon
				Common Shiner	Luxilus cornutus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				White Sucker	Catostomus commersoni			Abundant
	Near Elginfield;Hwy 4	8/13/1936 F	ROM	Bluntnose Minnow	Pimephales notatus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
	Nine Mile Rd.	10/27/2003 (UTRCA	Black Bullhead	Ameiurus melas			Common
				Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Cample Date	Cource	Common Name	Ocientine Name	Provincial	Federal	Distribution
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				River Chub	Nocomis micropogon			Common
				Rock Bass	Ambloplites rupestris			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		7/16/2007	UTRCA	Black Bullhead	Ameiurus melas			Common
				Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Cample Date	Jource	Common Name	ocientino ivanie	Provincial	Federal	Distribution
				Longear Sunfish	Lepomis megalotis			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/20/2008	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	North of London	8/13/1936	ROM	Bluntnose Minnow	Pimephales notatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Rainbow Darter	Etheostoma caeruleum			Uncommon

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
WaterCourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
	•			Least Darter	Etheostoma microperca		•	Common
				Central Mudminnow	Umbra limi			Abundant
	Sunningdale Downstream of	7/19/2005	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
	GolfCourse			Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Quillback	Carpiodes cyprinus			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	Sunningdale U/S from	7/19/2005	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
	GolfCourse			Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Johnny Darter	Etheostoma nigrum	·	•	Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	·	4/20/2006	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rainbow Trout	Oncorhynchus mykiss			Common
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Redhorse	Moxostoma anisurum			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
<u>-</u>				White Sucker	Catostomus commersoni			Abundant
	Upstream of Fanshawe Park	10/27/2004	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon
	Road			Blackside Darter	Percina maculata			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
·				Bluntnose Minnow	Pimephales notatus	•	•	Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		7/16/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Logperch	Percina caprodes			Common
				Mimic Shiner	Notropis volucellus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie		Thames
Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
		•		Rock Bass	Ambloplites rupestris		•	Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	West of West end of Windermere	9/8/2002	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Largemouth Bass	Micropterus salmoides			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
	Windermere St	3/27/2000	UTRCA	Redfin Shiner	Lythrurus umbratilis			Uncommon
				Rosyface Shiner	Notropis rubellus			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
		7/19/2000	UTRCA	Black Redhorse	Moxostoma duquesnei	Threatened	Threatened	Uncommon

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Blackside Darter	Percina maculata	·	•	Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greater Redhorse	Moxostoma valenciennesi			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		4/23/2001	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
		5/21/2008	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Redhorse	Moxostoma erythrurum			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Rock Bass	Ambloplites rupestris			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Jource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Rosyface Shiner	Notropis rubellus			Abundant
				Shorthead Redhorse	Moxostoma macrolepidotum			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Spotfin Shiner	Cyprinella spiloptera			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		7/16/2008	UTRCA	Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Logperch	Percina caprodes			Common
				Longnose Dace	Rhinichthys cataractae			Common
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				River Chub	Nocomis micropogon			Common
				Rock Bass	Ambloplites rupestris			Abundant
				Rosyface Shiner	Notropis rubellus			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Stonecat	Noturus flavus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
Medway Creek E	Adelaide St	7/22/2004	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
Branch				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
WaterCourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
·				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Rock Bass	Ambloplites rupestris			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/23/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Golden Shiner	Notemigonus crysoleucas			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Longear Sunfish	Lepomis megalotis			Common
				White Sucker	Catostomus commersoni			Abundant
Medway Creek East 1 Tributary	0 Mile Road	6/23/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
Tributary				Bluntnose Minnow	Pimephales notatus			Abundant

Watercou	urse Location	Sample Date S	Source	Common Name	Scientific Name	Species	s at Risk	Thames
vvalercot	irse Location	Sample Date S	oource	Common Name	Scientific Name	Provincial	Federal	Distribution
				Brook Stickleback	Culaea inconstans			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Northern Pike	Esox lucius			Common
Medway Cree	ek Tributary	6/3/1975 R	ОМ	Brassy Minnow	Hybognathus hankinsoni			Uncommon
				Central Stoneroller	Campostoma anomalum			Abundant
Medway	Creek Adelaide North of Ilderton	6/23/2008 U	TRCA	Bluntnose Minnow	Pimephales notatus			Abundant
Tributary	Road			Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				White Sucker	Catostomus commersoni			Abundant
Medway Trib	Adelaide S of 16 Mile Rd	6/23/2008 U	TRCA	No Fish Found				
Mills Drain	Highbury Road	11/27/2003 U	TRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Pumpkinseed	Lepomis gibbosus			Abundant
				Striped Shiner	Luxilus chrysocephalus			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/23/2008 U	TRCA	Blacknose Dace	Rhinichthys atratulus			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
VValercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
			•	Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
Needham-Moir	Ilderton Road	9/20/1999	UTRCA	Bluntnose Minnow	Pimephales notatus			Abundant
Drain				Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				White Sucker	Catostomus commersoni			Abundant
Ridson	East Branch east of Highbury	11/27/2003	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
		7/16/2007	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Species	s at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
				Least Darter	Etheostoma microperca	·		Common
				Northern Pike	Esox lucius			Common
				Northern Redbelly Dace	Phoxinus eos			Abundant
				White Sucker	Catostomus commersoni			Abundant
		6/23/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Northern Pike	Esox lucius			Common
				White Sucker	Catostomus commersoni			Abundant
Ridson Drain	Clarke Rd, N of Plover Mills	8/6/2008	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
	Rd			Bluntnose Minnow	Pimephales notatus			Abundant
				Brook Stickleback	Culaea inconstans			Abundant
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
				White Sucker	Catostomus commersoni			Abundant
Snake Creek	Wonderland Road	9/8/2002	UTRCA	Blacknose Dace	Rhinichthys atratulus			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fathead Minnow	Pimephales promelas			Abundant

Watercourse	Location	Sample Date	Course	Common Name	Scientific Name	Species	s at Risk	Thames
watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Provincial	Federal	Distribution
			•	Johnny Darter	Etheostoma nigrum			Abundant
				Longnose Dace	Rhinichthys cataractae			Common
				Rainbow Trout	Oncorhynchus mykiss			Common
				Smallmouth Bass	Micropterus dolomieu			Abundant
				White Sucker	Catostomus commersoni			Abundant
White-Fitzgerald	Adelaide	6/23/2008	UTRCA	Creek Chub	Semotilus atromaculatus			Abundant
Drain				Fantail Darter	Etheostoma flabellare			Abundant
				Fathead Minnow	Pimephales promelas			Abundant
				Northern Redbelly Dace	Phoxinus eos			Abundant
				White Sucker	Catostomus commersoni			Abundant
	Clarke Rd	8/6/2008	UTRCA	Brook Stickleback	Culaea inconstans			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
	Highbury Road	9/20/1999	UTRCA	Brook Stickleback	Culaea inconstans			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
Medway Creek	Stream summary	1/1/1975	OMNR	Black Bullhead	Ameiurus melas			Common
Subwatershed				Blacknose Dace	Rhinichthys atratulus			Abundant
				Blacknose Shiner	Notropis heterolepis			Uncommon
				Blackside Darter	Percina maculata			Abundant
				Bluntnose Minnow	Pimephales notatus			Abundant
				Brassy Minnow	Hybognathus hankinsoni			Uncommon
				Brook Stickleback	Culaea inconstans			Abundant
				Brown Bullhead	Ameiurus nebulosus			Uncommon
				Central Mudminnow	Umbra limi			Abundant
				Central Stoneroller	Campostoma anomalum			Abundant
				Common Carp	Cyprinus carpio			Abundant
				Common Shiner	Luxilus cornutus			Abundant
				Creek Chub	Semotilus atromaculatus			Abundant
				Fantail Darter	Etheostoma flabellare			Abundant

Watercourse	Location	Sample Date	Source	Common Name	Scientific Name	Specie	s at Risk	Thames
Watercourse	Location	Sample Date	Source	Common Name	ocientine Name	Provincial	Federal	Distribution
				Fathead Minnow	Pimephales promelas	•		Abundant
				Golden Shiner	Notemigonus crysoleucas			Common
				Greenside Darter	Etheostoma blennioides	Special Concern	Not at Risk	Abundant
				Hornyhead Chub	Nocomis biguttatus			Abundant
				Johnny Darter	Etheostoma nigrum			Abundant
				Least Darter	Etheostoma microperca			Common
				Longear Sunfish	Lepomis megalotis			Common
				Mimic Shiner	Notropis volucellus			Abundant
				Northern Hog Sucker	Hypentelium nigricans			Abundant
				Northern Pike	Esox lucius			Common
				Northern Redbelly Dace	Phoxinus eos			Abundant
				Pearl Dace	Margariscus margarita			Uncommon
				Pumpkinseed	Lepomis gibbosus			Abundant
				Rainbow Darter	Etheostoma caeruleum			Uncommon
				Redfin Shiner	Lythrurus umbratilis			Uncommon
				Rock Bass	Ambloplites rupestris			Abundant
				Silver Shiner	Notropis photogenis	Special Concern	Special Concern	Uncommon
				Smallmouth Bass	Micropterus dolomieu			Abundant
				Yellow Perch	Perca flavescens			Common

Abundance: Refers to the relative abundance or common occurrence of the species found within the waters of the Thames River watershed based on sampling results. Consideration was given to accurately reflect the species presence within the watershed due to the sampling capture method, effort and biases, difficulty in capturing certain species and anecdotal reporting.

Abundant: Greater than 50 sample records in the database.

Common: Between 15 and 50 sample records in the database

Historical: Species that have been previously recorded in the Thames

Rare: Less than 5 sample records in database

Uncommon: Between 5 and 15 sample records in database

Ap	pendix	C:	Watercourse	Barriers	and Dams	Inventory
----	--------	----	-------------	-----------------	----------	-----------

Dam ID	NAME	Watercourse	Year Constructed	Dam Type	Purpose	Additional Comments
UT10-305T	FD#1	Medway Creek	1961	water storage		Dam has virtually completely failed. Medway Ck. now flows around the structure location. Still functions as a .5 m barrier. Not likely to be a fisheries concern given the new channel. Island caused by by-passed channel
UT10-010	LD # 1	Medway Creek	1965	water storage		Concrete debris and rock dam creating step-pool morphology. Dam built for the collection of bait fish and recreation. Landowner concerned about upstream pollution, DS development and loss of banks, and just concerned overall.
UT10-308T	WB # 3	Medway Creek	1961	barrier - gradient and rock	original purpose was for cattle watering, none now	Fish barrier year round.
UT10-306T	WB # 1	Medway Creek	1961	barrier - debris and rock	original purpose was for cattle watering, none now	Definite low flow barrier. At time of assessment, water was flowing over barrier but .5m step persisted.
UT10-307T	WB # 2	Medway Creek	1961	barrier - debris, gradient and rock	original purpose was for cattle watering, none now	Definite low flow barrier. Gradient barrier at time of assessment
UT10-304T	FB#2	Medway Creek	1995	debris barrier	purpose is for crossing/access	Barrier used as road stream crossing. Flow through structure but definite fish barrier.
UT10-001	Arva Flour Mill Dam	Medway Creek	1912	diversion channel	mill pond, cultural	Large active Mill Pond Dam. S wall blew out and was repaired in 1996. N wall crumbling. N wall scheduled to be repaired in next few years.
UT17-358T	Arva Diversion Channel Dam	Medway Creek	1911	water storage	mill pond hydro electric	Dam is actually the on diversion channel from main Mill Dam. Outlet sluiceway ends in 1m drop to channel.
UT10-009	TD	Medway Creek	1960	water storage	stream crossing	Small concrete dam built seemingly for passage to landing across stream. At time of assessment, stop logs were removed water levels had stabilized
UT17-359T	Arva Mill Barrier	Tributary of Medway Creek	unknown	barrier - gradient and culvert	recreational	Barrier is a steep gradient from culvert outflow. Gradient rises 1m in 3m

Dam ID	NAME	Watercourse	Year Constructed	Dam Type	Purpose	Additional Comments
UT10-347T	HLD # 1	Tributary of Medway Creek	2001	water storage		Deep pond with earthen dyke. At time of assessment, berm was completely breached spring '01 wouldll rebuild later this season '01
UT10-303T	LD#2	Medway Creek	1965	water storage	minnow holding pond	Dam on side channel off of mainstem Medway. On side channel next to main Medway. Water also from cornfield drains.
UT10-348T	HLD # 2	Tributary of Medway Creek	1985	water storage	recreational	Small rec pond w/earthen dyke. Mostly groundwater fed. Used for duck hunting.
UT10-351T	HLD # 5	Tributary of Medway Creek	1985	water storage	recreational	Concrete dam built for no real reason other than rec viewing.
UT10-352T	HLD # 6	Tributary of Medway Creek	1985	water storage	recreation, road crossing	Concrete dam built for rec and road crossing.
UT10-349T	HLD # 3	Tributary of Medway Creek	1990	water storage and barrier - velocity, gradient and rock	road crossing	Dam is a rock berm built as a vehicle crossing. At high flows, gradient and velocity barrier. At low flows, definite dam
UT10-350T	HLD # 4	Tributary of Medway Creek	1985	water storage	recreational	Large concrete dam used as road crossing.
UT10-003	St. John's Estate Dam	Tributary of Medway Creek	1990	water storage	recreation - no purpose - recreation/ aesthetics/ SWM?	Large berm Dam formed in the development of St. Johns sub- division. Outlet type is via culvert. Many fish observed in impound.
UT10-002	Arva Mill Duck Pond Dam	Tributary of Medway Creek	unknown	water storage	recreational	Small concrete dam built to hold water for wildlife/waterfowl.
UT10-331T	SGCB # 1	Tributary of Medway Creek	unknown	barrier - gradient and other (step)		Barrier is a stack of logs creating a .6m step. DS of this barrier, stream is culverted 40 to Sunningdale Road crossing.
UT10-332T	SGCB # 2	Tributary of Medway Creek	unknown	barrier - culvert and rock		Barrier is actually a .6m perched culvert. Culvert length is 24m
UT10-333T	SGCD#3	Tributary of Medway Creek	unknown	water storage	recreational	Impound and dam are part of water hazard. 150m US creek is tiled under fairway cyprinids observed in pond.
UT10-337T	SGCD#4	Tributary of Medway Creek	unknown	water storage	recreational	Impound and dam are part of water hazard. Creek flows 103m underground
UT10-338T	SGCD#5	Tributary of Medway Creek	unknown	water storage	recreational	Impound and dam are part of water hazard. Creek flows 80m through tile

Appendix D: Watershed Buffer Restoration Project (WBRP)						

Watershed Buffer Restoration Project (WBRP)

The WBRP was initiated in 2004 in Minitry of Natural Resource's Aylmer District. This project was developed as a model, using a watershed approach, to identify key areas for protection and restoration within subwatersheds. Key concepts for this model include:

- a) Subwatershed statistical analysis of natural area components based on guidelines from Environment Canada's document "How Much Habitat is Enough" for Forest Cover, Wetlands and Riparian Vegetation.
- b) Site identification for riparian buffer restoration using parcel boundaries; sites are prioritized based on water temperature, corridor or gap filling potential to reduce fragmentation, size of parcel area without buffer, multiple properties to one landowner and field ground truthing.
- c) Property maps are produced for each landowner to illustrate buffer restoration potential and to calculate the acreage of land that would be retired for the buffer.
- d) This model promotes strong partnership developments with Federal and Provincial governments, Stewardship Councils, Conservation Authorities, Municipalities, Environmental Non-government Organizations, other Stakeholders and Private Landowners.
- e) Project is promoted to landowners by other local landowners or community members (i.e. a member of the local Stewardship Council or "Friends of" group).
- f) Projects are implemented by established programs (i.e. tree planting and tall grass prairie planting by Conservation Authorities, Stewardship Councils, etc.).
- g) In some cases (i.e. where there is a downstream drinking water source or important natural feature) the project has been able to implement the use of annual payments to landowners for the amount of land taken out of production for the buffer, and for the Ecological Goods and Services that the buffer provides to the rest of the watershed and the downstream drinking water source.

The WBRP could work in partnership with UTRCA and the Friends of Medway Creek to implement this model for the Medway Creek subwatershed. The mapping process has been initiated with the following results:

a) Subwatershed statistical analysis:

Natural Feature	Existing (area/length)	Target for Restoration
Forest Cover	10.3% (area)	30%
Evaluated Wetland	00.3% (area)	10%
Riparian Vegetation	34.3% (length)	75%

- b) Riparian Buffer potential restoration sites:
 - o 173 project parcels have been identified within Medway Creek watershed
 - Property maps will be produced once sites have been prioritized and field ground truthing is completed
 - o Landowner contact information has not yet been collected

Appendix E: Wetland Drain Restoration Project (WDRP)

Wetland Drain Restoration Project (WDRP)

The Ministry of Natural Resource's Alymer District created the WDRP and has been ongoing since completion of the pilot project in 1996. The overall goals of the project are as follows:

- o Restore wetland function within a watershed and improve benefits to society
- o Restore hydrology of drained wetlands without affecting upstream agriculture
- o Build partnerships with landowners, community groups, conservation agencies
- Provide opportunities for education and advancement in natural resource, watershed and wetland management

The WDRP supports restoration of the following wetland functions:

Water Quality Improvement:

• Wetlands purify water by assimilating and filtering suspended sediments, nutrients and other pollutants.

o Groundwater recharge:

• Wetlands regulate the release of water to recharge groundwater supplies.

Flood Attenuation:

• Wetlands form part of the catchment basin within a watershed and help to reduce the incidence and intensity of flooding downstream.

Social/Economic Benefit:

 Wetlands improve agricultural crop production; provide recreational activities such as hunting, fishing, birding and biking; and produce marketable products such as trees, sport fish, furbearers and food.

Support of Cold Water Fisheries:

 Wetlands in headwater areas provide the necessary aquatic environments and support for cold-water fisheries.

Fish and Wildlife Habitat:

• Wetlands provide essential habitat for many different species of plants, mammals, birds, reptiles, amphibians, fish, and invertebrates.

Special Features:

• Wetlands are often critical habitats for provincially, regionally or locally significant plant and animal species.

The Medway Creek watershed has potential for implementation of WDRP sites. Two WDRP sites have already been initiated:

a) Cook's Drainage Works:

- A Feasibility Study was prepared for this site; however, wetland hydrology restoration was determined to be not feasible at this time due to lack of landowner commitment to the project.
- o It was determined that buffer restoration would be feasible upstream of the wetland.

b) Colbert Award Drain:

o A Feasibility Study is in progress for this site; there are two landowners remaining that need to be contacted.

Through potential WDRP site identification and prioritization methodology, the MNR has also identified four to five additional sites that could be investigated in the Medway Creek watershed. Further sites may be identified through public consultation.

Appendix F: Project Partners

Project Partners

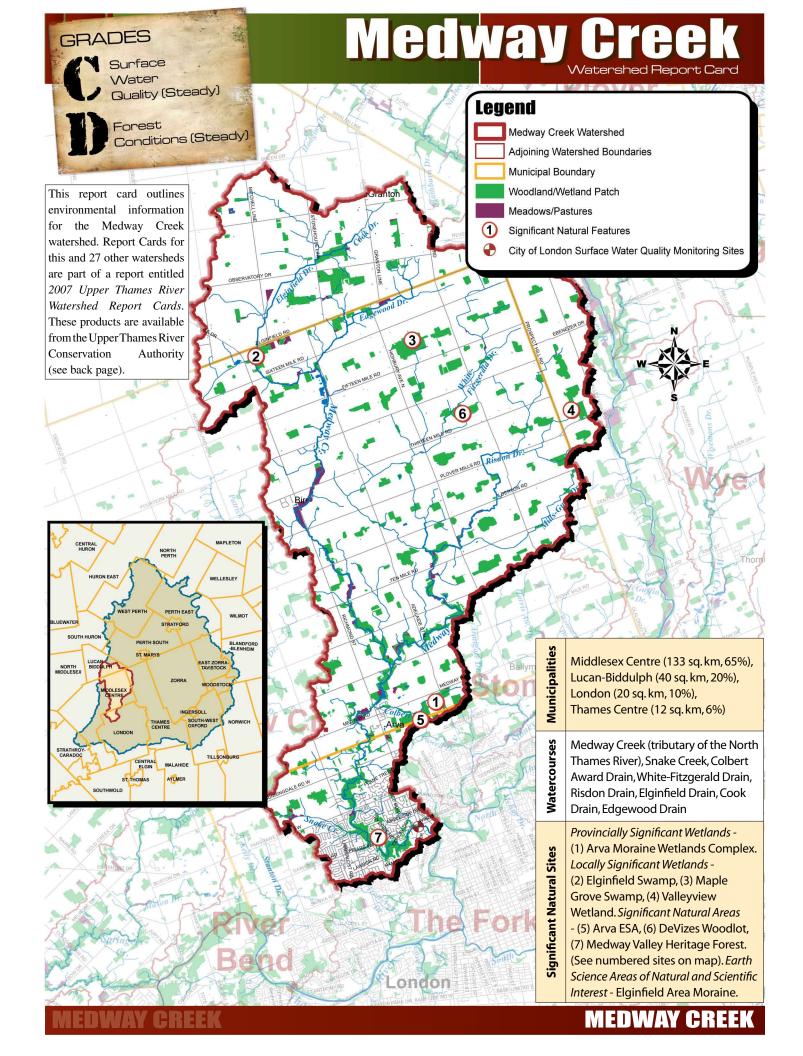
Thank you to many other groups and individuals from all facets of the community who partnered with a project in the Medway Creek watershed under this strategy

Landowners and local residents
Friends of Medway Creek
Bryanston Community Centre
Centennial Central Public School
Catholic Central High School
Ilderton Scouts Troup
Ryerson Public School
Cleardale Public School
Northridge Public School
Westmount Public School
Medway High School

Sponsors of other projects within the Medway Creek Watershed

Environment Canada's EcoAction Funding Program Environment Canada's Environmental Damages Fund TD Friends of the Environment Foundation

Appendix G: Medway Creek Watershed Report Card (2)
--





Area	205 sq. km, 6% of Upper Thames River watershed										
Land Use	83% agriculture, 11% forest, 6% urban										
Population	24,484 in 2006, a 7% increase from 22,781 in 1996										
Soil Type	33% clay loam, 32% silty loam, 20% silty clay loam, 6% bottomland, 6% not mapped (urban), 3% coarse sand										
Physiography	67% undrumlinized till plain, 16% till moraine (Arva moraine), 16% spillway										
Soil Erosion / Delivery	5% highly erodible (lands that could potentially contribute >7 tonnes/ha of soil to a watercourse/yr). The average for the Upper Thames River watershed is 9%.										
Stream Flow	The mean annual flow is 2.8 cubic metres per second (cms) measured near London. From 2001-2005, flows were close to this mean (1.9-4.3 cms). The previous 5 year period (1996-2000) was similar (1.2-4.3 cms). Medway Creek contributes 7% of the flow to the Thames downstream of London.										
Precipitation	The average annual prec reported levels fairly clos	· · ·		are	e incomplet	te for London, k	out other nearb	y stations			
Air Temperature	The average annual tem reported above normal a	=			-		other nearby st	ations			
Tileage & Drainage	29% no tiling, 34% rando	omly field tiled, 32% syst	ematically field	tile	ed, 6% urbaı	n drainage					
Watercourse	Total length: 214 km. Watercourse type: 30% natural, 49% channelized, 21% buried. Flow type: 57% permanent, 43% intermittent. Temperature: 6% coldwater, 94% warmwater.										
Length & Type	43% intermittent. Tempe	rature: 6% coldwater, 94	% warmwater.								
Length & Type Dams & Barriers	43% intermittent. <i>Tempe</i> 24 barriers have been re-			eav	ver activity.						
Dams &	•	corded in the watershed nament Plant discharges d by the Adelaide Pollut reenway PCP, which disc	I.There is also be treated effluent ion Control Plan	t in	to Medway PCP), which	discharges tre	ated effluent to	the North			
Dams & Barriers	24 barriers have been re- The Granton Sewage Tre within London is service Thames River, and the Gr	corded in the watershed nament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems.	I.There is also be treated effluent ion Control Plan harges into the	t in	to Medway PCP), which	discharges tre	ated effluent to	the North			
Dams & Barriers Sewage Treatment	24 barriers have been rewithin London is service Thames River, and the Granticed by private seption 10 spills reported from 2	corded in the watershed nament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems.	I.There is also be treated effluent ion Control Plan harges into the	t in	to Medway PCP), which	discharges tre All rural prope	ated effluent to	o the North ershed are			
Dams & Barriers Sewage Treatment	24 barriers have been recommendation. The Granton Sewage Trewithin London is service. Thames River, and the Granton serviced by private seption.	corded in the watershed nament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2	I. There is also be treated effluent ion Control Plan harges into the	t in	to Medway PCP), which ames River.	discharges tre	ated effluent to	the North			
Dams & Barriers Sewage Treatment	24 barriers have been recommendate of the Granton Sewage Trest within London is serviced Thames River, and the Granton Serviced by private seption 10 spills reported from 2 Types	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2	treated effluent ion Control Plan harges into the	t in	to Medway PCP), which ames River.	discharges tre All rural prope	ated effluent to rties in the water	o the North ershed are			
Dams & Barriers Sewage Treatment	24 barriers have been recommendate within London is service. Thames River, and the Granticed by private seption 10 spills reported from 2 Types Deciduous	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837	treated effluent ion Control Plan harges into the 2000 % of Cover	t in	to Medway PCP), which ames River.	All rural prope Size Category	Number of Woodlots	% of Woodlots			
Dams & Barriers Sewage Treatment Spills	24 barriers have been recommendate within London is service. Thames River, and the Granton Sewice of the Serviced by private seption 10 spills reported from 2 Types Deciduous Coniferous	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0	t in	to Medway PCP), which ames River.	Size Category <10 ha	Number of Woodlots 235	% of Woodlots 78			
Dams & Barriers Sewage Treatment Spills	24 barriers have been rewithin London is service. Thames River, and the Grantice by private seption 10 spills reported from 2 Types Deciduous Coniferous Mixed	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4	t in	to Medway PCP), which ames River.	Size Category <10 ha 10 - 30 ha	Number of Woodlots 235 45	% of Woodlots 78 14			
Dams & Barriers Sewage Treatment Spills	24 barriers have been recommendate within London is service. Thames River, and the Granton Sewith and the Granton Serviced by private seption 10 spills reported from 2 Types Deciduous Coniferous Mixed Plantation	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0 92 69	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3	t in	to Medway PCP), which ames River.	Size Category <10 ha 10 - 30 ha	Number of Woodlots 235 45	% of Woodlots 78 14			
Dams & Barriers Sewage Treatment Spills	24 barriers have been receivithin London is service. Thames River, and the Granton Spills reported from 2 Types Deciduous Coniferous Mixed Plantation Hedgerow	corded in the watershed rament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0 92 69 74	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3 3	t in	to Medway PCP), which ames River.	Size Category <10 ha 10 - 30 ha	Number of Woodlots 235 45	% of Woodlots 78 14			
Dams & Barriers Sewage Treatment Spills	24 barriers have been recommendation. The Granton Sewage Trese within London is service. Thames River, and the Granton Sewage Trese within London is service. Thames River, and the Granton Serviced by private seption. 10 spills reported from 2 Types Deciduous Coniferous Mixed Plantation Hedgerow Tree Nursery, Orchard	corded in the watershed eament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 0001-2005, 4 from 1988-2 Ha. 1837 0 92 69 74 32	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3 3 1	t in	Woodlot	Size Category <10 ha 10 - 30 ha >30 ha	Number of Woodlots 235 45	% of Woodlots 78 14 8			
Dams & Barriers Sewage Treatment Spills	24 barriers have been rewithin London is service. Thames River, and the Granton Spills reported from 2 Types Deciduous Coniferous Mixed Plantation Hedgerow Tree Nursery, Orchard Urban Woods < 0.5 ha	corded in the watershed tament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0 92 69 74 32 14	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3 3 1 1	t in	to Medway PCP), which ames River.	Size Category <10 ha 10 - 30 ha >30 ha	Number of Woodlots 235 45 24	% of Woodlots 78 14 8			
Dams & Barriers Sewage Treatment Spills	24 barriers have been recomplete within London is service. Thames River, and the Granton Sewage Tree within London is service. Thames River, and the Granton Serviced by private seption 10 spills reported from 2 Types Deciduous Coniferous Mixed Plantation Hedgerow Tree Nursery, Orchard Urban Woods < 0.5 ha Meadow	corded in the watershed ament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0 92 69 74 32 14 254 2372 (11.6% of watershed)	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3 3 1 1 100% a watercourse)	t im t (Th	Wetland Cover	Size Category <10 ha 10 - 30 ha >30 ha 1.1% of the w Wetlands mal cover.	Number of Woodlots 235 45 24 vatershed is in vice up 11.1% of	% of Woodlots 78 14 8 vetland cover. the natural			
Dams & Barriers Sewage Treatment Spills Vegetation Cover Types	24 barriers have been recomplete within London is service. Thames River, and the Granton Sewage Tresponder within London is service. Thames River, and the Granton Serviced by private seption 10 spills reported from 2 Types Deciduous Coniferous Mixed Plantation Hedgerow Tree Nursery, Orchard Urban Woods < 0.5 ha Meadow TOTAL COVER	corded in the watershed sament Plant discharges d by the Adelaide Pollut reenway PCP, which disc c systems. 001-2005, 4 from 1988-2 Ha. 1837 0 92 69 74 32 14 254 2372 (11.6% of watershed) e (30 m on both sides of names watershed is also	treated effluent ion Control Plan harges into the 2000 % of Cover 77 0 4 3 3 1 1 11 100% a watercourse) 34% and the tail	is i	Wetland Cover n permanetet is 75%.	Size Category <10 ha 10 - 30 ha >30 ha 1.1% of the w Wetlands mal cover.	Number of Woodlots 235 45 24 vatershed is in vice up 11.1% of	% of Woodlots 78 14 8 vetland cover. the natural			



Surface Water Quality Watershed Report Card

Surface water quality indicators each score a C, producing an overall grade of C (using the provincial grading system – see pg. 4).

Medway Creek water quality is affected by large seasonal differences in flow with stagnant areas in the upper watershed through the summer and greater flows in the entire watershed in winter months. Benthic monitoring scores at the downstream end of Medway Creek show some decline since 2001. This was

due to relatively poor benthic scores in 2002 and 2003 which may be attributed, at least in part, to extremes in flows during the early 2000's.

Phosphorus levels have shown some improvement over the long term and remain steady since 2001 but higher than the average for Upper Thames watersheds. Bacteria (*E. coli*) levels have also improved since the 1980's and in recent years to levels below the Upper Thames average.

Indicators	Med Cred 1996 –	ek	Medway Creek 2001 – 2005				Provincial Guideline	Indicator Description
Benthic Score (FBI)	5.49	В	5.98	C Declining	5.94	С	None	Benthic organisms (aquatic invertebrates that live in stream sediments) are good indicators of water quality and stream health. The Family Biotic Index (FBI), scores each taxa according to its pollution tolerance.
Phosphorus (mg/l) *	0.170	С	0.155	C Steady	0.110	С	0.03 (Provincial Objective)	Phosphorus is found in products such as soaps, detergents, fertilizer and pesticides, and contributes to excess algae and low oxygen in streams and lakes.
Bacteria (# <i>E. coli /</i> 100 ml) **	246	С	157	C Improving	317	С	100 (Swimming Guideline)	Fecal coliform bacteria are found in human and animal (livestock/wildlife) waste and their presence in water indicates fecal contamination. Fecal coliform bacteria are a strong indicator for the potential to have other disease-causing organisms in the water.

^{* 75&}lt;sup>th</sup> percentile, Ministry of the Environment data

^{**} Geometric mean, Ministry of the Environment and Health Unit data



Forest conditions indicators score a D and F, producing an overall grade of D.

The amount of forest cover (9.8%) is slightly lower than the average for the Upper Thames watershed. Meadow and other cover types add an additional 1.4% for a total of 11.2% natural cover. This amount is considered too low for sustainability. The ideal for southern Ontario is 25-30% natural cover (Environment Canada 2004).

The amount of forest interior is also low (1.0%) indicating most woodlots are too small and/or narrow to support area sensitive birds such as Scarlet Tanager and Ovenbird.

The change in forest cover between the 2001 and 2007 report cards is largely a reflection of more accurate mapping, not vegetation loss. Also, some grades have been adjusted due to the adoption of a new provincial grading system.

Indicators	Medw Cree 2001	k Creek		k	Upper Thames 2007		Indicator Description
Forest Cover	10.8%	D	9.8%	D	11.4%	D	Forest cover is the percentage of the watershed that is forested. It is believed there should be 25-30% forest and other natural cover in southern Ontario's landscape to sustain native plants and animals.
Forest Interior	1.0%	F	1.0%	F	1.6%	F	Forest interior refers to the protected core area found inside a woodlot that some bird species require to nest and breed successfully. The outer 100 m perimeter of a woodlot is considered 'edge' habitat and prone to high predation, sun and wind damage and alien species invasion.

^{* 2001} Report Cards derived forest data from digital 1997 National Topographic Series maps in Raster format.

^{** 2007} Report Cards derived forest data from digital 2000 aerial photography in Vector format.

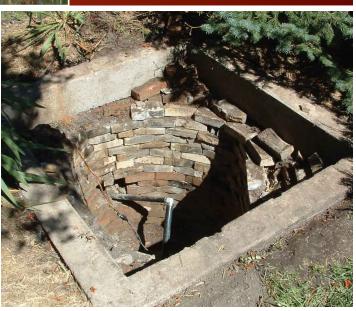
Groundwater Watershed Report Card

Groundwater is the source of drinking water in a large area of the Medway Creek watershed and its protection is important to safeguard well supplies. The portions of the watershed in London and Arva are supplied by the London municipal water system, the sources of which are Lakes Huron and Erie. The well for the Town of Birr and the majority of private wells in this watershed draw from overburden aquifers rather than bedrock.

Municipal water (London, Birr well) is tested and treated. The testing and treatment of private wells is the responsibility of the owner. Deep wells, because they have a thick layer of protection (clay, silt, sand, etc.), have a lower risk of contamination than shallow wells. The highest risk to any well is from contaminants and activities closest to the well.

Groundwater also supports wetlands, forests and streams and, in fact, 60-70% of local streamflow (baseflow) is fed by groundwater discharging to streams. The Provincial Groundwater Monitoring Network has shown groundwater levels generally decline from May to October and increase from fall to spring, with the largest increase in March. The *Middlesex-Elgin Groundwater Study* (2004) (www.thamesriver.on.ca/Groundwater/MiddlesexElgin groundwater study.htm) has increased our understanding of local groundwater resources.

A Drinking Water Source Protection process is underway to protect municipal drinking water at the source (<u>www.sourcewaterprotection.on.ca</u>).

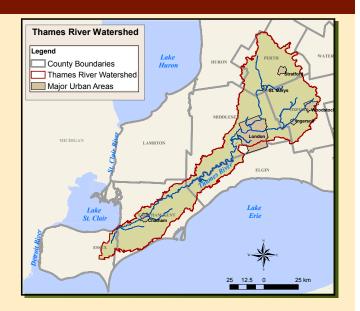


Unused wells and wells that are poorly constructed or maintained pose a high risk to groundwater, as they are a direct pathway for pollutants in surface water. Abandoned wells should be properly decommissioned.

Great Lakes Connections

The Medway Creek watershed is in the Thames River watershed, which is part of the Lake Erie watershed. Water leaving the Medway travels through London and Chatham, then into Lake St. Clair and eventually Lake Erie. It takes 4-10 days for water in the Medway watershed to reach Lake St. Clair.

The Canada-US Lake Erie Lakewide Management Plan has identified land use activities in watersheds such as the Thames as the key to improving the health of Lake Erie. The Thames is the second largest contributor of nutrients to the lake after Ohio's Maumee River. Reducing pollution in the Medway watershed helps protect the Great Lakes, a source of drinking water and recreation for millions of people (www.great-lakes.net/lakes/ref/lamps.html).



Ontario-wide Report Cards

Province-wide standard report cards are now being used by many Conservation Authorities across Ontario to grade forest conditions and surface water quality. Grades vary across the province and reflect the range of physical characteristics and

human activities. This provincial approach to reporting helps to communicate baseline information on watershed health, identify local and regional differences, and promote stewardship (www.conservation-ontario.on.ca).

Local Actions for Improvement Watershed Report Card

Individuals, groups, municipalities and agencies each have a role in improving the health of the watershed through the following suggested action. For more information on agencies that can help, contact the UTRCA (see last page).

A number of the local actions listed below are also identified in the following reports: *Middlesex Natural Heritage Study* (UTRCA, 2003), Middlesex-Elgin Groundwater Study (Dillon, 2004), Guideline Document for the Evaluation of Ecologically Significant Woodlands (City of London, 2006). The University of Western Ontario is also conducting extensive research and monitoring of the Medway Creek and a number of published papers are available.

Surface Water and Groundwater

- Plant buffers (trees, grasses) along open watercourses to provide shade and filter pollutants.
- Investigate the impacts of aggregate extraction on surface and groundwater.
- Implement environmental practices on golf courses (e.g. Audubon Cooperative Sanctuary Program).
- Ensure proper application of materials, including sewage sludge, to land.
- Use drain maintenance methods that also protect aquatic habitat.
- Assess the purpose of the 24 dams/barriers to determine if any should be removed or modified to improve river health. Target removal of barriers that prevent fish migration.
- Repair or replace faulty septic systems and ensure proper maintenance of the system.
- Implement agricultural Beneficial Management Practices in the areas of manure storage and spreading, soil conservation practices, fertilizer and pesticide storage and application, fuel storage, and livestock access restriction.
- Complete and follow Environmental Farm Plans and Nutrient Management Plans (<u>www.omafra.gov.on.ca/english/ag.html</u>).
- Within the urban areas the following actions should be continued:
 - Overall area planning;
 - For new development, implement urban stormwater planning and monitoring using approaches such as municipality-wide strategies, subwatershed, catchment and area planning;

- For existing development, implement pollution prevention and control planning to manage all aspects of stormwater runoff (e.g. reduce storm-sanitary overflows, retrofit stormwater systems);
- Continue to upgrade sewer systems where risk of contamination is greatest (e.g. extend sanitary sewers to urban properties on septic systems);
- Improve sediment control during construction;
- Continue resident education regarding best management practices to reduce chemical inputs to lawn and gardens (www.london.ca/Pesticides/City Plan) and proper disposal of household hazardous wastes (www.clear.london.ca).



Through the Clean Water Program, this stretch of Medway Creek was fenced to restrict cattle access.

Drinking Water



- Homeowners with wells should know the condition of their well and risks to their water supply (www.wellwise.ca).
- Keep contaminants (e.g. fuel, pesticides, manure/waste) away from wells.
- Decommission abandoned wells according to Ministry of the Environment standards.
- Sample private wells each spring and fall (available through the Health Unit).

Forests

- Conserve all woodlands, wetlands and other natural areas through designations in Official Plans, enforcement of tree cutting by-laws, landowner incentives and education, promotion of sustainable recreational uses, etc.
- Connect woodlots and other habitats by planting hedgerows and windbreaks along fields, watercourses and roads.
 Windbreaks also protect against soil erosion.
- Increase forest interior by "bulking up" woodlots to make them larger and rounder, by planting native trees and shrubs around existing woodlots or allowing the edges to naturalize on their own (e.g. retire land near woodlot edges).
- To improve the health of individual woodlots, woodlot owners should prepare and follow Woodlot Management Plans.
- Plant a diverse range of native species to protect against diseases and invasive pests such as the Emerald Ash Borer or Hickory Bark Beetle.
- Target restoration and habitat improvement projects to the largest and most significant sites including the Arva Moraine Wetlands, Maple Grove Swamp and Medway Valley Heritage Forest. With landowner cooperation, projects could include plantation thinning, bird and duck box installation, management of ATVs, planting hedgerows or windbreaks to connect nearby habitats, and examining drain management practices to protect the wetland's hydrology.
- In urban areas, natural cover can be increased by naturalizing manicured public parks and open spaces, closed landfill sites, former gravel pits, river valleys, residential and industrial and commercial properties.
- Natural cover along Medway Creek is very sparse in the upper reaches, but relatively good in the middle to lower stretch. Further vegetation planting to connect and widen the riparian vegetation cover would protect the creek and create an excellent wildlife corridor.

Highlights of Progress since 2001

The Medway Creek watershed is benefiting from many conservation efforts that continue to be implemented by individuals, groups, agencies and municipalities on private maintenance, bridge commonitoring.

• Since 2001, numerous st

■ 55 Clean Water Program projects were completed by watershed landowners including cattle access restriction along portions of Medway Creek. The program was initiated in 2001 as a partnership between local municipalities to fund environmental projects (www.cleanwaterprogram.ca).

and public lands. Examples of activities since 2001 include:

- Through the UTRCA's Communities for Nature program, 830 trees and shrubs were planted by 480 students and community members at Medway Valley ESA, Sunningdale Golf Course, and Attawandaron Park. Almost 6000 trees were planted at 10 sites under the UTRCA's Private Land Reforestation Program and the federal Forest 2020 Program.
- The UWO Geography Department continues to focus research on the Medway Creek watershed, adding valuable information to our understanding of the local environment.
- The Medway Valley Heritage Forest Environmentally Significant Area (ESA) and all London ESAs have been actively managed by the joint City of London/UTRCA ESA Management Team since 2001. Projects include trail

- maintenance, bridge construction, cleanup, and encroachment monitoring.
- Since 2001, numerous stormwater ponds have been constructed in London to treat urban stormwater.
- In 2005, the Sunningdale Golf Course achieved full certification under the Audubon Cooperative Sanctuary Program.



Community volunteers plant native trees and shrubs in the Medway Valley Heritage Forest ESA.

References: 2007 Upper Thames River Watershed Report Cards, available from www.thamesriver.on.ca.

For more information, contact:

Website: www.thamesriver.on.ca

Upper Thames River Conservation Authority 1424 Clarke Road, London, Ontario N5V 5B9 Phone: 519-451-2800 Fax: 519-451-1188 E-mail: infoline@thamesriver.on.ca



