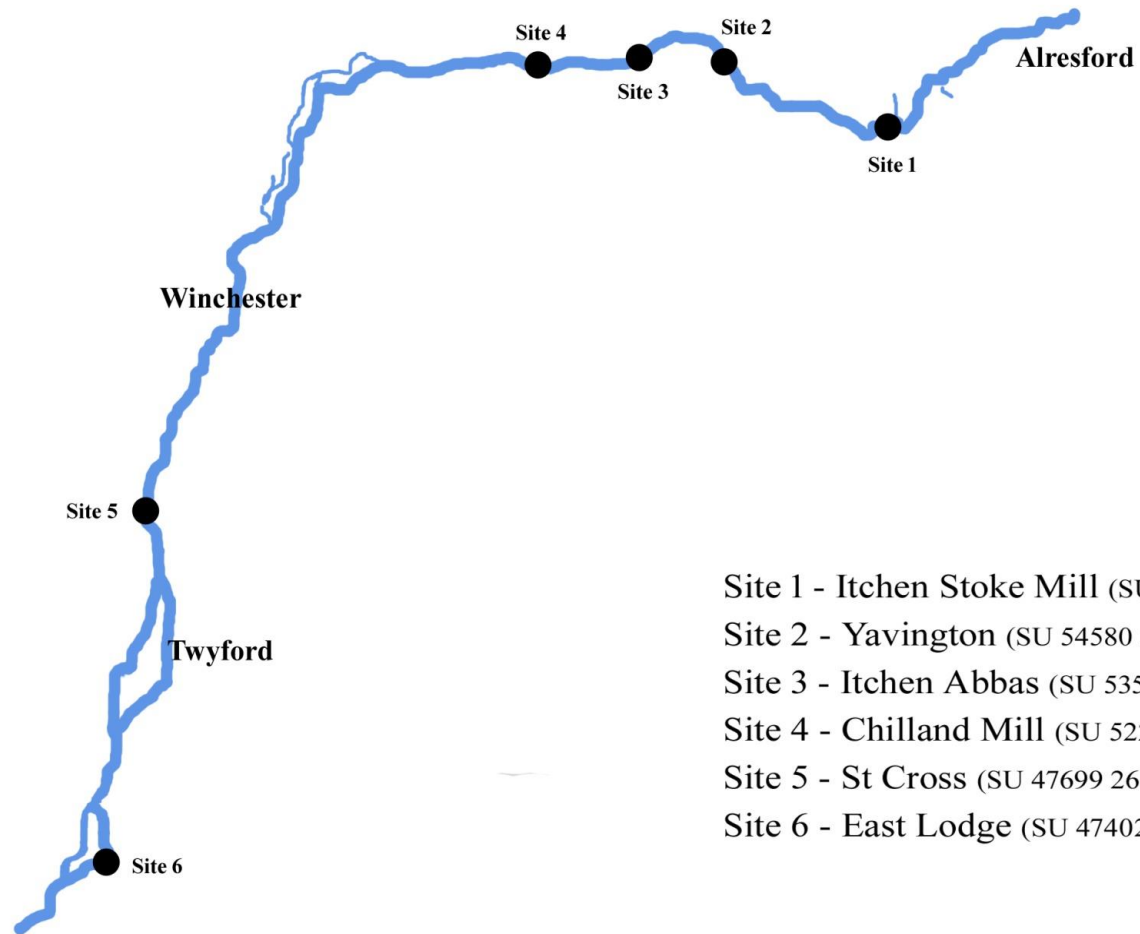


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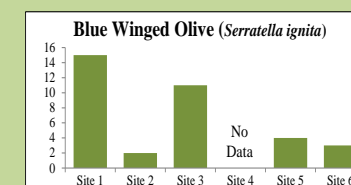
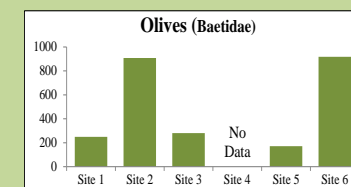
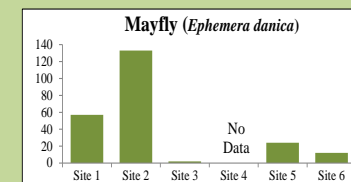
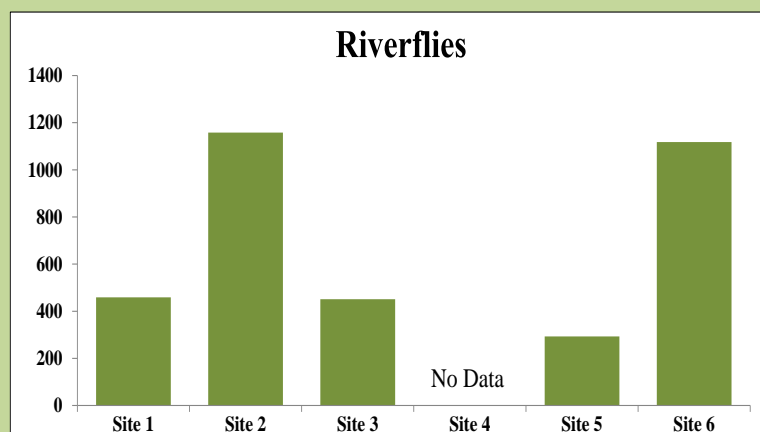
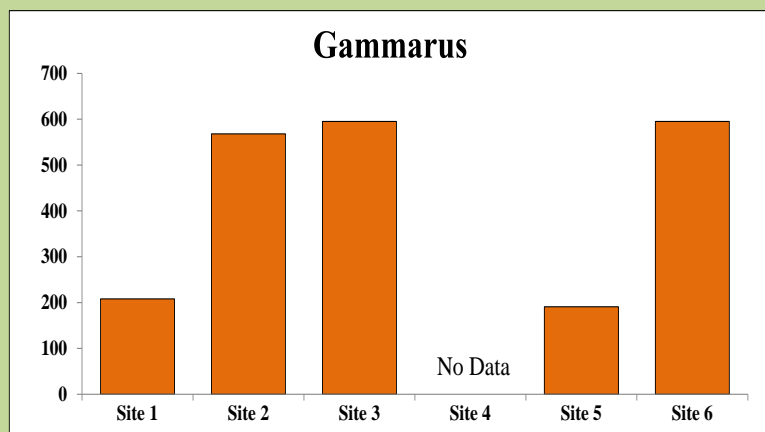
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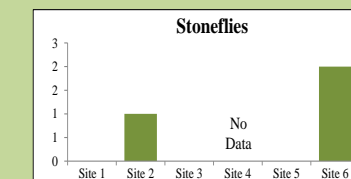
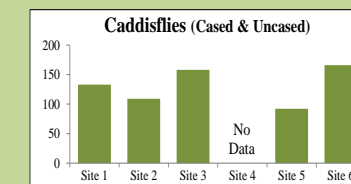
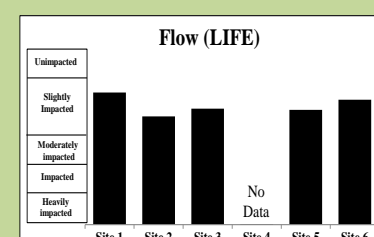
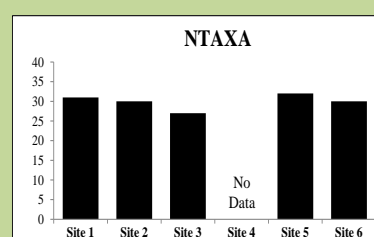
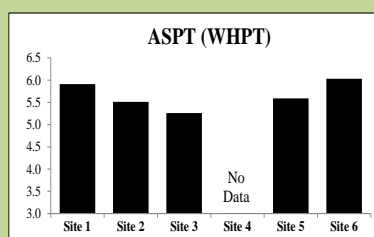
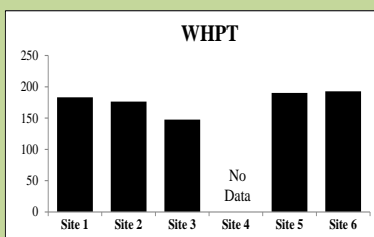
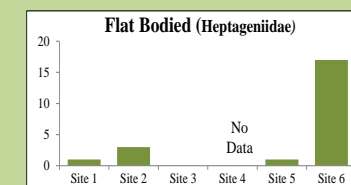
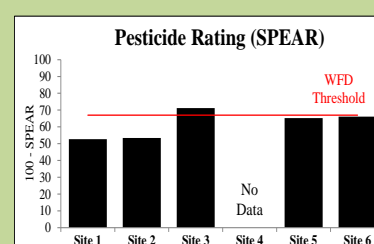
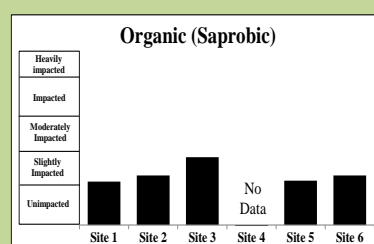
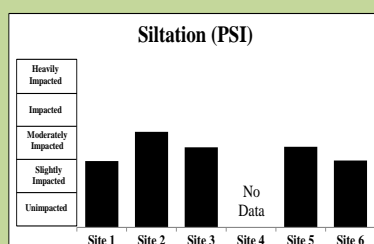
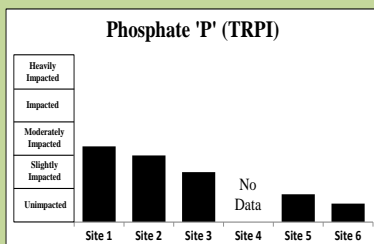
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- Site 2 - Yavington (SU 54580 32606)
- Site 3 - Itchen Abbas (SU 53526 32682)
- Site 4 - Chilland Mill (SU 52298 32527)
- Site 5 - St Cross (SU 47699 26835)
- Site 6 - East Lodge (SU 47402 22571)

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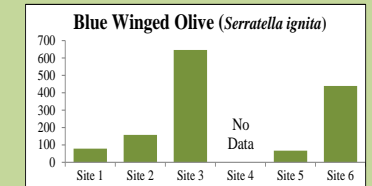
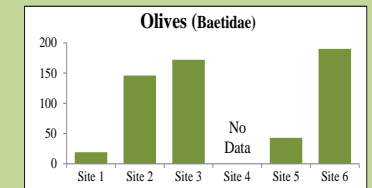
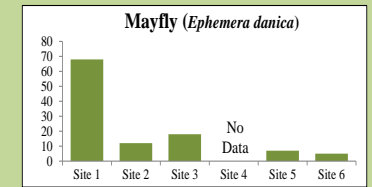
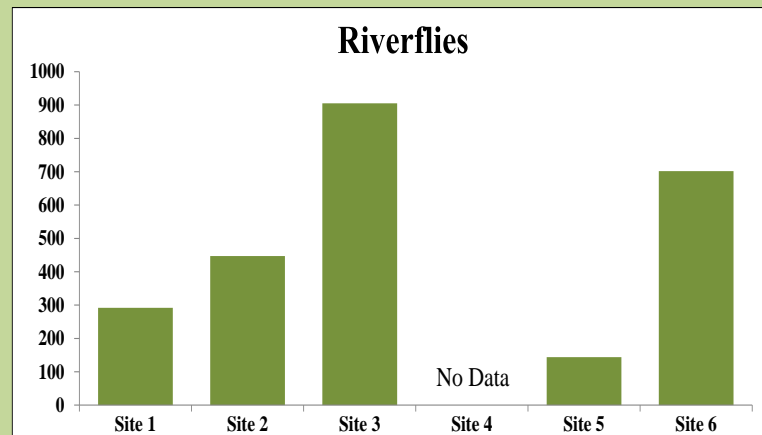
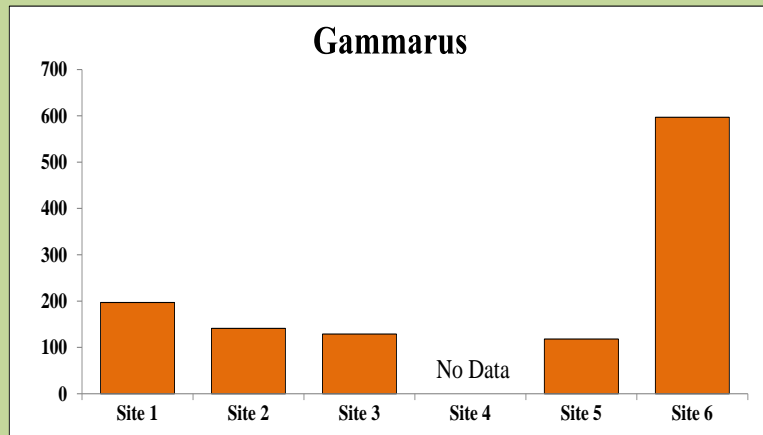


Biometrics

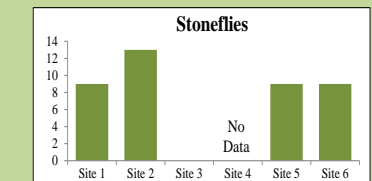
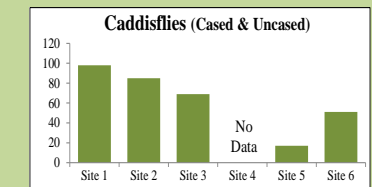
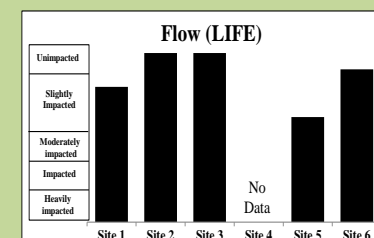
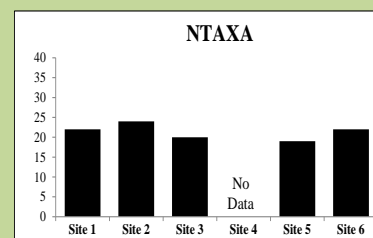
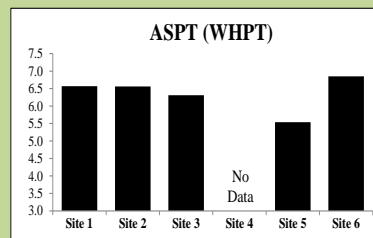
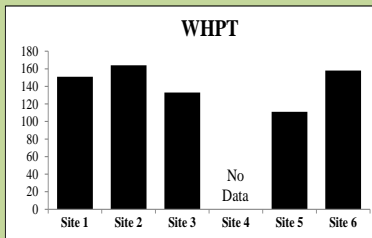
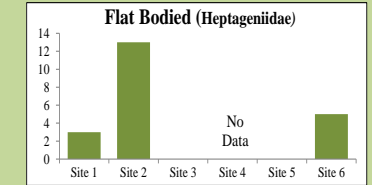
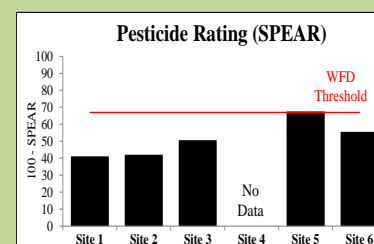
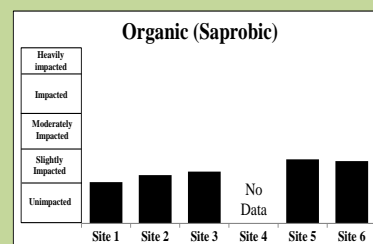
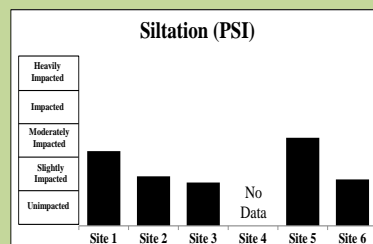
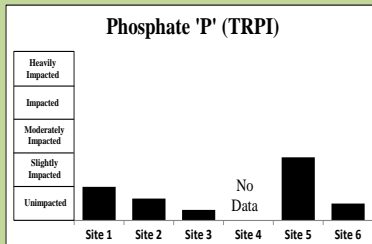


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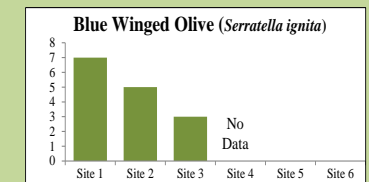
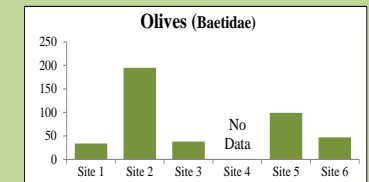
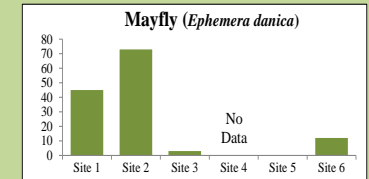
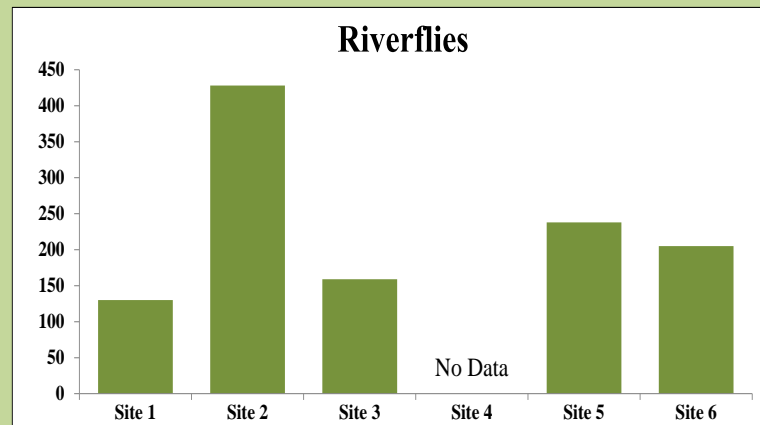
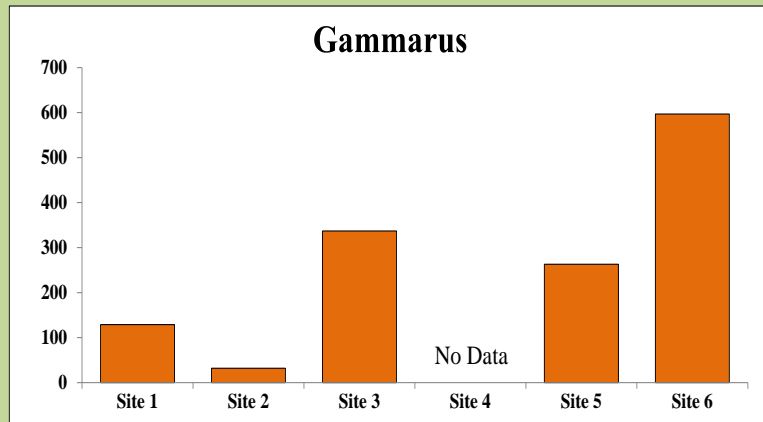


Biometrics

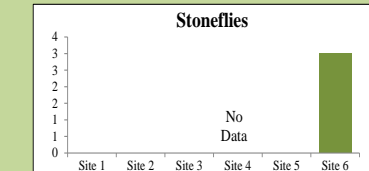
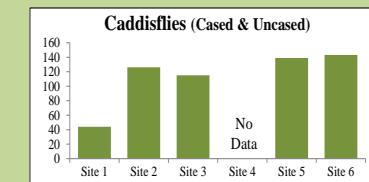
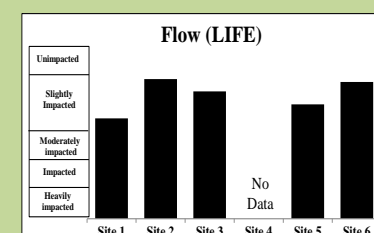
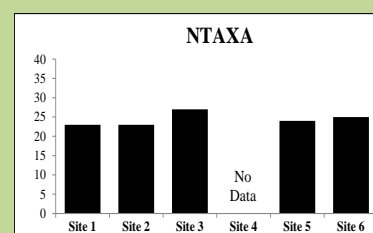
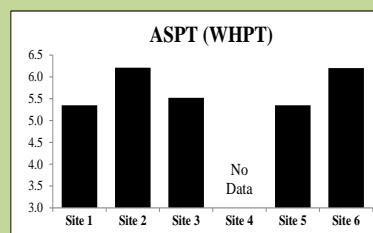
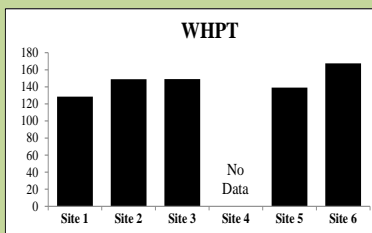
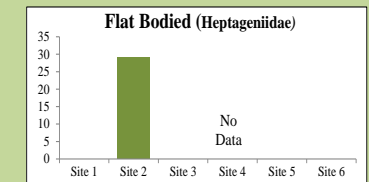
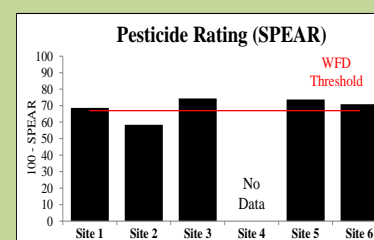
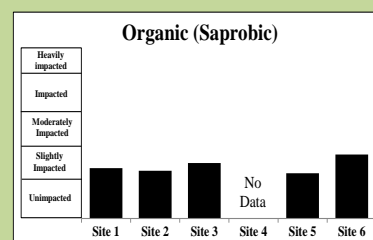
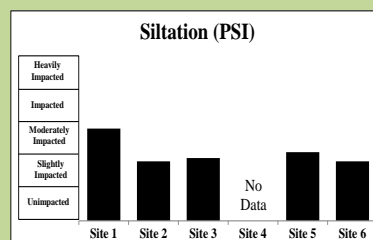
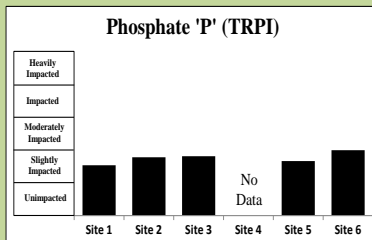


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River Itchen 2020 - Autumn



Biometrics



Appendix 1

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Rhyacophila</i> sp.			6		3	
<i>Rhyacophila dorsalis</i>			3		1	3
<i>Rhyacophila septentrionis</i>						1
Polycetropodidae	1					
<i>Polycetropus flavomaculatus</i>			2		1	
<i>Hydropsyche pellucidula</i>	19	8	2		11	51
<i>Hydropsyche siltalai</i>			121		9	53
<i>Cheumatopsyche lepida</i>						19
<i>Brachycentrus subnubilis</i>						2
<i>Ithytrichia</i> sp.	8				1	
<i>Oxyethira</i> sp.	1					
<i>Hydropnita</i> sp.			2		5	
<i>Agapetus</i> sp.	1					1
<i>Silo nigricornis</i>	1		14			4
<i>Phryganea grandis</i>		1				
<i>Potamophylax</i> sp.	22	44				
<i>Potamophylax latipennis</i>	4				1	
<i>Chaetopteryx villosa</i>			1		2	
<i>Limnephilus rhombicus</i>		4	2			
<i>Odontocerum albicorne</i>	68	6			44	25
<i>Sericostoma personatum</i>	8	45	4		14	7
<i>Athripsodes</i> sp.			1			
<i>Ylodes conspersus</i>		1				

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Calopteryx splendens</i>		1				
<i>Calopteryx virgo</i>	3					

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Ephemera danica</i>	57	133	2		24	12
<i>Baetis</i>	249	908	280		171	918
<i>Heptagenia sulphurea</i>	1	3			1	17
<i>Serratella ignita</i>	15	2	11		4	3
<i>Caenis rivulorum</i>	3	2			1	
<i>Paraleptophlebia submarginata</i>	1					

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Leuctra hippopus</i>						2
<i>Isoperla grammatica</i>		1				

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
Whirligig Beetle					1	1
<i>Haliphys</i> sp.	6	2	1			1
Diving Beetle larva		2				
<i>Hydroporus</i> sp.		1	2			
<i>Oreodytes sanmarkii</i>		2				
<i>Platambus maculatus</i>	7		13			
Elmidae Riffle Beetle					1	
<i>Elmis aenea</i>	4	160	42		134	109
<i>Limnius volkmari</i>	1	4	7		30	72
<i>Riolus subviolaceus</i>					2	1
Lesser Waterboatman		2				
Lesser Waterboatman <i>Sigara</i> sp.	5					



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True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Dicranota</i> sp.		1	1		1	
<i>Antocha</i> sp.					2	
Limoniidae		1				
Ceratopogonidae		1				
Simuliidae	24	5	60		9	71
Orthocladinae	9	1	24		6	1
Chironomidae	5		13		11	1
Tanytarsini	8	1				
Tanyptodinae					1	
Prodiamesiinae			1		1	
Stratiomyidae			2			
Empididae			1			

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Sialis alderfly</i> larva					3	
<i>Sialis lutaria</i>		2				

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Gammarus pulex</i>	208	568	595		191	595
<i>Asellus aquaticus</i>		1				

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	190	179	146		175	177
ASPT	6.13	5.97	5.41		5.47	5.90
WHPT	183	176	148		190	193
ASPT	5.91	5.51	5.26		5.59	6.03
Number of Taxa	31	30	27		32	30
Riverfly - species	18	13	15		18	17
Riverfly - numbers	467	1158	466		297	1121
CCI						
LIFE	7.71	7.31	7.44		7.42	7.59
PSI	60.32	42.86	52.11		51.85	60.00
SPEAR	47.32	46.57	28.82		34.76	33.93
TRPI	54.55	60.00	70.00		83.33	88.89
Saprobic	1.90	1.97	2.18		1.91	1.97

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Valvata piscinalis</i>					1	43
<i>Valvata macrostomata</i>						12
<i>Potamopyrgus antipodarum</i>					81	8
<i>Bithynia tentaculata</i>					6	12
<i>Lymnaea</i> sp.		1	1			
<i>Lymnaea palustris</i>						1
<i>Lymnaea stagnalis</i>	2					30
<i>Radix balthica</i>	11		6			27
<i>Physa fontinalis</i>	1		44			12
<i>Planorbis planorbis</i>						47
<i>Planorbis carinatus</i>						7
<i>Gyraulus albus</i>	22				60	32
<i>Ancylus fluviatilis</i>	1				1	11
<i>Pisidium</i> sp.			1		2	1
<i>Anisus vortex</i>	24	11	18		67	17

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Piscicola geometrica</i>	4				1	
<i>Glossiphonia complanata</i>		4	10		4	5
<i>Glossiphonia heteroclita</i>						
<i>Helobdella stagnalis</i>			11		2	
<i>Hemiclepsis marginata</i>		1				
<i>Theromyzon tessellatum</i>		1				
<i>Erpobdella octoculata</i>	4	10	51		2	
<i>Oligochaeta</i>	28	61	15		8	3

Appendix 2

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Sericostoma personatum</i>	25	8			1	9
<i>Anabolia nervosa</i>	28		2		3	
<i>Lepidostoma hirtum</i>	6	10	6			6
<i>Limnephilus lunatus</i>	3	7			1	
<i>Chaetopteryx villosa</i>	3	3				
<i>Potamophylax latipennis</i>		9	8		1	1
<i>Potamophylax cingulatus</i>	4					
<i>Limnephilus rhombicus</i>	7		3		2	1
<i>Hydroptila</i>	8		16			
<i>Ithytrichia lamellaris</i>		19	3			
<i>Hydropsyche siltalai</i>	1	13	11			14
<i>Hydropsyche pellucidula</i>						3
<i>Rhyacophila septentrionis</i>	1					1
<i>Rhyacophila dorsalis</i>		3	10			3
<i>Odontocerum albicorne</i>	12	11	3		9	2
<i>Halesus radiatus</i>		2	1			1
<i>Athripsodes albifrons</i>			2			
<i>Polycentropus flavomaculatus</i>			1			
<i>Psychomyia pusilla</i>			3			
<i>Cheumatopsyche lepida</i>						7
<i>Brachycentrus subnubilis</i>						3

Damselfly & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Calopteryx splendens</i>	2				7	1

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Ephemera danica</i>	68	12	18		7	5
<i>Baetis rhodani</i>	19	86	172		29	121
<i>Baetis fuscatus</i>		53			14	
<i>Baetis mucicus</i>		7				
<i>Baetis scambus</i>						69
<i>Heptagenia sulphurea</i>	3	13				5
<i>Serratella ignita</i>	79	158	646		67	439
<i>Caenis rivulorum</i>	16	14				
<i>Rhithrogena</i>		6			1	3

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Isoptera grammatica</i>	6	6			3	3
<i>Leuctra geniculata</i>	3	7			6	6

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Platambus maculatus</i>	1		1			
<i>Oreodytes sammarkii</i>			3			
<i>Limnius volckmari</i>			5		2	23
<i>Elmis aenea</i>			17		5	16



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True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Simulium</i>	13	126				
<i>Simulium ornatum</i>					77	551
<i>Orthocladinae</i>	65	31	89		58	
<i>Chironominae</i>					4	
<i>Tanytarsini</i>	11	14	62		21	
<i>Tanypodinae</i>		5	5			
<i>Ceratopogonidae</i>	4	1	4		3	
<i>Dicranota</i>		2				
<i>Pedicia</i>		1				

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Gammarus pulex</i>	197	141	129		118	597
<i>Asellus aquaticus</i>		9			35	

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	149	152	125		111	150
ASPT	6.77	6.33	6.25		5.84	6.81
WHPT	151	164	133		111	158
ASPT	6.57	6.56	6.31		5.54	6.85
Number of Taxa	22	24	20		19	22
Riverfly - species	18	20	16		11	20
Riverfly - numbers	292	447	1236		576	702
CCI	15.12	14.27	9.29		7.39	14.68
LIFE	7.74	8.30	8.30		7.24	8.03
PSI	55.77	70.69	74.42		47.92	72.58
SPEAR	58.87	57.97	49.37		32.49	44.44
TRPI	80.00	86.96	93.75		62.50	90.00
Saprobic	1.87	1.95	1.99		2.13	2.11

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Bithynia tentaculata</i>					46	10
<i>Radix balthica</i>	2		1		5	
<i>Lymnaea palustris</i>	1					
<i>Lymnaea stagnalis</i>	1					
<i>Planorbis carinatus</i>	5				5	4
<i>Planorbis planorbis</i>					1	
<i>Anisus vortex</i>	8	4			4	2
<i>Gyraulus albus</i>	5	1			3	5
<i>Physa fontinalis</i>		1				2
<i>Ancylus fluviatilis</i>			1		3	
<i>Valvata piscinalis</i>					25	13
<i>Pisidium</i>					19	
<i>Potamopyrgus antipodarum</i>						2

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Glossiphonia complanata</i>		1	1			
<i>Polycelis felina</i>		1				
<i>Criodrilus lacuum</i>		1				
<i>Haplotaxis gordioides</i>	9					1
<i>Oligochaeta</i>	39	8	13			

Appendix 3

Caddisflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Silo nigricornis</i>		6	9			3
<i>Mystacides azurea</i>	1					
<i>Sericostoma personatum</i>	10	25	4		6	16
<i>Odonocerum albicorne</i>	3	20			4	11
<i>Potamophylax latipennis</i>	3					
<i>Limnephilus rhombicus</i>	2					
<i>Limnephilus lunatus</i>	1	21	4		5	
<i>Glyptotaelus pellucidus</i>	4	6			3	
<i>Ithyrichia lamellaris</i>		8				
<i>Hydroptila</i>			5		32	9
<i>Agapetus</i>					6	
<i>Brachycentrus subnubilis</i>						1

Mayflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Ephemera danica</i>	45	73	3			12
<i>Baetis</i>						
<i>Baetis rhodani</i>	34	156	21		65	47
<i>Baetis fuscatus/scambus</i>		39	17		34	
<i>Heptagenia sulphurea</i>		29				
<i>Serratella Ignita</i>	7	5	3			
<i>Caenis rivulorum</i>						

Stoneflies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Leuctra</i>						2
<i>Isoperla grammatica</i>						1
<i>Rhyacophila dorsalis</i>	4	13	8		3	8
<i>Hydropsyche siltalai</i>	5		59		26	34
<i>Hydropsyche pellucidula</i>	11	27	18		54	58
<i>Valvata piscinalis</i>			2			
<i>Polycentropus flavomaculatus</i>			6			3

Beetles & Bugs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Elmis aenea</i>	7	44	49		79	45
<i>Limnius volckmari</i>		16				34
<i>Haliphys</i>	2					
<i>Oreodytes sanmarkii</i>	3					
<i>Oreochilus villosus</i>		5	1			
<i>Dytiscidae</i>		4				
<i>Riolus</i>			5		2	
<i>Scirres</i>			1			
<i>Hydracarina</i>						8

Damsels & Dragons	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Calopteryx</i>	1					
<i>Calopteryx splendens</i>					3	
<i>Coenagrion</i>					1	



River Itchen - 2020
Autumn

True Flies	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Stratiomyidae</i>	1					
<i>Simulium</i>	13		36		226	
<i>Simulium ornatum group</i>						703
<i>Orthocladinae</i>	17		13		7	
<i>Tanytarsini</i>	98		8			
<i>Ceratopogonidae</i>		4				
<i>Antocha vitripennis</i>			3		14	
<i>Tanypodinae</i>			7			
<i>Dicranota</i>						1
<i>Limnophora</i>						1

Alderfly	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Sialis lutaria</i>	3				1	1

Crustaceans	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Gammarus pulex</i>	129	32	337		263	597
<i>Asellus aquaticus</i>	15	18	64			

Biometrics	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
BMWP	134	138	141		121	151
ASPT	5.83	6.00	5.22		5.04	6.04
WHPT	129	149	149		139	168
ASPT	5.35	6.21	5.52		5.35	6.20
Number of Taxa	23	23	27		24	25
Riverfly - species	13	13	12		11	13
Riverfly - numbers	453	687	157		238	193
CCI	7.12	9.60	7.73		7.29	11.20
LIFE	7.21	7.88	7.67		7.45	7.83
PSI	43.86	63.79	61.82		58.18	63.79
SPEAR	31.35	41.59	25.61		26.31	29.16
TRPI	69.23	64.29	63.64		66.67	60.00
Saprobic	1.99	1.96	2.05		1.93	2.15

Molluscs	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Anisus vortex</i>	7	18	2		5	3
<i>Radix balthica</i>	2		11		4	1
<i>Lymnaea stagnalis</i>	4					
<i>Lymnaea palustris</i>	2				4	
<i>Physa fontinalis</i>	4		8		7	
<i>Ancylus fluviatilis</i>	1	1	3		3	3
<i>Gyraulus albus</i>	1				18	2
<i>Valvata piscinalis</i>			2		3	46
<i>Bithynia tentaculata</i>					6	5
<i>Potamopyrgus antipodarum</i>					22	3
<i>Planorbis carinatus</i>						1
<i>Sphaerium</i>						4

Leeches & Worms	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6
<i>Erpobdella octoculata</i>	13	32	18		6	2
<i>Piscicola geometra</i>	6	2			1	
<i>Theromyzon tessulatum</i>			1			
<i>Glossiphonia complanata</i>		5	5		7	12
<i>Dendrocoelum lacteum</i>		1				
<i>Oligochaeta</i>		41	7			