**Bioindicators of Water Quality
Data Sheet**

Not sure what this is for..,. I am not currently using it and it needs editing….

Note: Family Tolerance Score = Tolerance Value x Number Found

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| --- | --- | --- | --- |
| Coleoptera (beetles) |   |  |  |
|  |  |  |  |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Dryopidae | 5 |   |   |
| Dytiscidae | 5 |   |   |
| Elmidae | 5 |   |   |
| Gyrinidae | 4 |   |   |
| Haliplidae | 7 |   |   |
| Hydrophilidae | 5 |   |   |
| Psephenidae | 4 |   |   |
| **Order Totals** |  |  |

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| **Diptera (flies)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Athericidae | 2 |   |   |
| Blephariceridae | 0 |   |   |
| Ceratopogonidae | 6 |   |   |
| Chaoboridae | 8 |   |   |
| Chironomidae | 6 |   |   |
| Culicidae | 8 |   |   |
| Dixidae | 1 |   |   |
| Empididae | 6 |   |   |
| Ephydridae | 6 |   |   |
| Muscidae | 6 |   |   |
| Psychodidae | 10 |   |   |
| Ptchopteridae | 7 |   |   |
| Sciomyzidae | 6 |   |   |
| Simuliidae | 6 |   |   |
| Stratiomyidae | 8 |   |   |
| Syrphidae | 10 |   |   |
| Tabanidae | 6 |   |   |
| Tipulidae | 3 |   |   |
| **Order Totals** |   |   |

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| **Ephemeroptera (mayflies)** |   |   |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Baetidae | 4 |   |   |
| Baetiscidae | 3 |   |   |
| Caenidae | 7 |   |   |
| Ephemerellidae | 1 |   |   |
| Ephemeridae | 4 |   |   |
| Hetageniidae | 4 |   |   |
| Isonychiidae | 7 |   |   |
| Leptophlebiidae | 2 |   |   |
| Oligoneuridae | 2 |   |   |
| Polymitarcyidae | 2 |   |   |
| Potomanthidae | 2 |   |   |
| Siphlonuridae | 7 |   |   |
| Tricorythidae | 4 |   |   |
| **Order Totals** |  |  |

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| **Hemiptera (water bug)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Belostoamtidae | 10 |   |   |
| Corixidae | 9 |   |   |
| Naucoridae | 5 |   |   |
| Nepidae | 8 |   |   |
| Veliidae | 6 |   |   |
| **Order Totals** |  |  |

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| --- | --- | --- | --- |
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| **Lepidoptera (aquatic moths)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Pyralidae | 5 |   |   |
| **Order Totals** |   |   |

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| **Megaloptera**  |  |  |  |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Corydalidae | 0 |   |   |
| Sialidae | 4 |   |   |
| **Order Totals** |   |   |

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| **Odonata (dragonflies/damselflies)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Aeshnidae |  |  |  |
| Calopterygidae |  |  |  |
| Coenagrionidae |  |  |  |
| Gomphidae |  |  |  |
| Lestidae |  |  |  |
| Libelluidae |  |  |  |
| **Order Totals** |  |  |

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| **Plecoptera (stoneflies)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score** |
| Capniidae | 1 |   |   |
| Chloroperildae | 1 |   |   |
| Leuctridae | 0 |   |   |
| Nemouridae | 2 |   |   |
| Perlidae | 1 |   |   |
| Perlodidae | 2 |   |   |
| Pteronarcycidae | 0 |   |   |
| Taeniopterygidae | 2 |   |   |
| **Order Totals** |   |   |
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| **Trichoptera (caddisflies)** |
| **Family** | **Tolerance Value** | **Number Found** | **Family Tolerance Score**  |
| Brachycentridae | 1 |   |   |
| Glossosomatidae | 0 |   |   |
| Helicopsychidae | 3 |   |   |
| Hydropsychidae | 4 |   |   |
| Hydroptilidae | 4 |   |   |
| Lepidostomatidae | 1 |   |   |
| Leptoceridae | 4 |   |   |
| Limnephilidae | 4 |   |   |  |  |  |  |
| Philpotamidae | 3 |   |   |
| Phryganeidae | 4 |   |   |  |  |  |  |
| Polycentropodidae | 6 |   |   |  |  |  |
| **Order Totals** |   |   |  |  |  |  |

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| --- | --- | --- |
| **Order Totals** | **Number Found** | **Order Tolerance** |
| Plecoptera |  |  |
| Ephemeroptera |  |  |
| Trichoptera |  |  |
| Coleoptera |  |  |
| Odonata |  |  |
| Hemiptera |  |  |
| Diptera |  |  |
| Lepidoptera |  |  |
| Megaloptera |  |  |
| **Grand Totals** |   |   |

**Biotic Index:** *Order Tolerance Total* divided by the *Number Found Total*

|  |  |  |
| --- | --- | --- |
| **Biotic Index** | **Water Quality Rating** | **Degree of Organic Pollution** |
| 0.00-3.75 | Excellent |  | Organic Pollution Unlikely |
| 3.76-4.25 | Very Good | Slight Organic Pollution Possible |
| 4.26-5.00 | Good | Some Organic Pollution Probable |
| 5.01-5.75 | Fair | Fairly Substantial Pollution Likely |
| 5.76-6.50 | Fairly Poor | Substantial Pollution Likely |
| 6.51-7.25 | Poor | Very Substantial Pollution Likely |
| 7.26-10.0 | Very Poor | Severe Organic Pollution Likely |