**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

|  |  |  |  |
| --- | --- | --- | --- |
| 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** | |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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** | |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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** | |  |  |

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

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

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

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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** | | | |  | |  |
|  | |  |  | |  | |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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** | |  |  |  |  | |  |  | |

|  |  |  |
| --- | --- | --- |
| **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 |