

Appendix 20.
Macroinvertebrate SIGNAL 2 Score
Calculations

Table 1 – SIGNAL 2 Calculations for Site S5

Phylum	Class	Higher Taxa	Family Taxa	Lowest Identification Level	SIGNAL 2 Score	Abundance	Weight Factor	SIGNAL 2 x Weight Factor
Annelida	Clitellata	Subclass	Oligochaeta	NA	Oligochaeta	2	2	1
Arthropoda	Insecta	Order	Hemiptera	Veliidae	<i>Petrovelia</i> sp.	3	1	1
Arthropoda	Insecta	Order	Hemiptera	Corixidae	Corixidae (Immature)	2	1	1
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	Caenidae (Immature)	4	1	1
Arthropoda	Insecta	Order	Diptera	Chironomidae	Tanypodiinae - Chironomidae	4	6	3
Arthropoda	Insecta	Order	Diptera	Chironomidae	Chironominae - Chironomidae	3	1	1
Arthropoda	Insecta	Order	Diptera	Chironomidae	Orthoclaadiinae - Chironomidae	4	1	1
Arthropoda	Insecta	Order	Diptera	Ceratopogonidae	Ceratopogonidae	4	4	2
TOTAL							12	38
SIGNAL 2							3.2	

Table 2 – SIGNAL 2 Calculations for Site S6

Phylum	Class	Higher Taxa	Family Taxa	Lowest Identification Level	SIGNAL 2 Score	Abundance	Weight Factor	SIGNAL 2 x Weight Factor
Arthropoda	Insecta	Order	Hemiptera	Gerridae	Gerridae (Immature)	4	3	2
Arthropoda	Insecta	Order	Hemiptera	Gerridae	<i>Calyptobates jourama</i>	4	6	3
Arthropoda	Insecta	Order	Hemiptera	Corixidae	Corixidae (Immature)	2	11	4
Arthropoda	Insecta	Order	Hemiptera	Corixidae	<i>Micronecta</i> sp.	2	8	3
Arthropoda	Insecta	Order	Hemiptera	Notonectidae	Notonectidae (Immature)	1	1	1
Arthropoda	Insecta	Order	Ephemeroptera	Baetidae	Baetidae (Immature)	5	12	4
Arthropoda	Insecta	Order	Ephemeroptera	Baetidae	<i>Cloeon</i> sp.	5	6	3
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	Caenidae (Immature)	4	5	2
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	<i>Tasmanocoenis arcuata</i>	4	11	4
Arthropoda	Insecta	Order	Trichoptera	Leptoceridae	<i>Oecetis</i> sp.	6	1	1
Arthropoda	Insecta	Order	Coleoptera	Dytiscidae	Dytiscidae Larva (Immature)	2	2	1
Arthropoda	Insecta	Order	Coleoptera	Dytiscidae	<i>Hyphydrus elegans</i> (Adult)	2	1	1
Arthropoda	Insecta	Order	Diptera	Chironomidae	Chironomidae Pupa	3	4	2
Arthropoda	Insecta	Order	Diptera	Culicidae	Culicidae	1	1	1
Arthropoda	Insecta	Order	Diptera	Tipulidae	Tipulidae	5	1	1
Arthropoda	Insecta	Order	Odonata	Coenagrionidae	Coenagrionidae (Immature)	2	1	1
Arthropoda	Insecta	Order	Odonata	Coenagrionidae	<i>Pseudagrion</i> sp.	2	3	2
TOTAL							38	122
SIGNAL 2							3.2	

Table 3 – SIGNAL 2 Calculations for Site S8

Phylum	Class	Higher Taxa	Family Taxa	Lowest Identification Level	SIGNAL 2 Score	Abundance	Weight Factor	SIGNAL 2 x Weight Factor
Arthropoda	Malacostraca	Order	Decapoda	Atyidae	Atyidae (Immature)	3	1	1
Arthropoda	Insecta	Order	Hemiptera	Veliidae	<i>Petrovelia</i> sp.	3	1	1
Arthropoda	Insecta	Order	Hemiptera	Corixidae	Corixidae (Immature)	2	3	2
Arthropoda	Insecta	Order	Hemiptera	Corixidae	<i>Micronecta</i> sp.	2	7	3
Arthropoda	Insecta	Order	Hemiptera	Pleidae	<i>Paraplea brunni</i>	2	1	1
Arthropoda	Insecta	Order	Ephemeroptera	Baetidae	Baetidae (Immature)	5	1	1
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	Caenidae (Immature)	4	56	5
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	<i>Tasmanocoenis arcuata</i>	4	8	3
Arthropoda	Insecta	Order	Ephemeroptera	Caenidae	<i>Tasmanocoenis</i> sp 1	4	3	2
Arthropoda	Insecta	Order	Ephemeroptera	Leptophlebiidae	<i>Atalophlebia</i> sp.	8	3	2
Arthropoda	Insecta	Order	Trichoptera	Leptoceridae	Leptoceridae (Immature)	6	1	1
Arthropoda	Insecta	Order	Coleoptera	Dytiscidae	<i>Sternopriscus</i> sp. (Adult)	2	1	1
Arthropoda	Insecta	Order	Coleoptera	Scirtidae	Scirtidae	6	1	1
Arthropoda	Insecta	Order	Coleoptera	Hydrophilidae	<i>Hydrochus</i> sp.	2	3	2
Arthropoda	Insecta	Order	Diptera	Chironomidae	Chironomidae Pupa	3	6	3
Arthropoda	Insecta	Order	Diptera	Chironomidae	Tanypodiinae - Chironomidae	4	3	2
Arthropoda	Insecta	Order	Diptera	Culicidae	Culicidae	1	1	1
TOTAL							34	115
SIGNAL 2							3.4	