

Appendix A. Candidate metrics for inclusion in the MMI

Biological Metric	Acronym	Expected response to disturbance
<u>Richness and Composition</u>		
Total taxa richness	S	Decrease
Abundance	N	Decrease
Abundance minus Chironomidae abundance	N-CHI	Decrease
EPT family richness	EPT_S	Decrease
% EPT individuals	%EPT	Decrease
Non-insect Richness	NINS_S	Decrease
% Non-insect individuals	%NINS	Increase
Ephemeroptera richness	EPH_S	Decrease
% Ephemeroptera	%EPH	Decrease
Plecoptera richness	PLE_S	Decrease
% Plecoptera	%PLE	Decrease
Tricoptera richness	TRI_S	Decrease
% Tricoptera	%TRI	Decrease
Odonata richness	ODO_S	Decrease
% Odonata	%ODO	Decrease
Lepidoptera richness	LEP_S	Decrease
% Lepidoptera	%LEP	Variable
Coleoptera richness	COL_S	Decrease
% Coleoptera	%COL	Decrease
Megaloptera richness	MEG_S	Decrease
% Megaloptera	%MEG	Variable
Heteroptera richness	HET_S	Decrease
% Heteroptera	%HET	Variable
Diptera richness	DIP_S	Decrease
% Diptera	%DIP	Increase
% Diptera minus % Chironomidae	%DIP-CHIR	Decrease
% Baetidae	%BAE	Decrease
% Chironomidae	%CHIR	Increase
% Hydropsychidae	%HYD	Decrease
% Collembola	%CLL	Variable
% Hydracarina	%HYD	Variable
% Ostracoda	%OST	Variable
% Bivalvia	%BIV	Variable
% Hirudinea	%HIR	Increase
% Oligochaeta	%OLI	Increase
% Planariidae	%PLA	Variable
% Nematoda	%NEM	Variable
<u>Behavioral characteristics</u>		
Collector-filterer richness	C-F_S	Variable
% Collector-filterer	%C-F	Variable
Collector-gatherer richness	C-G_S	Variable
% Collector-gatherer	%C-G	Variable
Predator richness	PRD_S	Decrease
% Predator	%PRD	Decrease
Scraper richness	SCR_S	Decrease
% Scraper	%SCR	Decrease

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Sheredder richness	SHR_S	Decrease
% Sheredder	%SHR	Decrease
Burrower richness	BUR_S	Variable
% Burrower	%BUR	Increase
Crawler richness	CRA_S	Variable
% Crawler	%CRA	Decrease
Skater richness	SKT_S	Variable
% Skater	%SKT	Variable
Swimmer richness	SWI_S	Variable
% Swimmer	%SWI	Variable
Temporarily attached richness	TAT_S	Decrease
% Temporarily attached	%TAT	Decrease
<u>Tolerance</u>		
Biological Monitoring Working Party adapted	BMWPa	Decrease
Average Tolerance Score Per Taxon adapted	ATSPTa	Decrease
Biological Monitoring Working Party adapted/Total taxa richness	BMWPa/S	Decrease
Super-tolerant taxa richness (richness of taxa with value 1 or 2)	S-TOL_S	Increase
% Super-tolerant individuals (% of taxa with value 1 or 2)	%S-TOL	Increase
Tolerant taxa richness (richness of taxa with value 1, 2, 3 or 4)	TOL_S	Increase
% Tolerant individuals (% of taxa with value 1, 2, 3 or 4)	%TOL	Decrease
Super-sensitive taxa richness (richness of taxa with value 9 or 10)	S-SEN_S	Decrease
% Super-sensitive individuals (% of taxa with value 9 or 10)	%S-SEN	Decrease
Sensitive taxa richness (richness of taxa with value 7, 8, 9 or 10)	SEN_S	Decrease
% Sensitive individuals (% of taxa with value 7, 8, 9 or 10)	%SEN	Decrease
Baetidae / Ephemeroptera	BAE/EPH	Increase
Hydropsichidae / Trichoptera	HYD/TRIC	Increase
EPT / Chironomidae	EPT/CHIR	Decrease
Chironomidae / Diptera	CHIR/DIP	Increase
<u>Diversity and dominance</u>		
Shannon diversity (total taxa)	H'	Decrease
Evenness (total taxa)	J'	Decrease
Margalef Idiversity (total taxa)	d'	Decrease
Simpson diversity (total taxa)	λ'	Decrease
% 2 dominant taxa	%2TAX	Increase
% 3 dominant taxa	%3TAX	Increase
% 4 dominant taxa	%4TAX	Increase
% 5 dominant taxa	%5TAX	Increase