

Table S4. List of indicator invertebrate taxa extracted by TITAN. The scores of the target existing invertebrate index, BMWP THAI, and the assigned scores of the new index, BMWP IDN, with specific notes. The original taxon scores were used for taxa already included in the BMWP THAI.

Family	BMWP THAI Score	BMWP IDN Score	Notes
Euphaeidae	–	10	Appeared at very low PO ₄ -P concentration.
Heptageniidae	10	10	Taxon score of BWMP THAI was retained
Leptophlebiidae	10	10	Taxon score of BWMP THAI was retained
Ceratopogonidae	–	10	Appeared at very low PO ₄ -P concentration.
Psychomyiidae	8	8	Taxon score of BWMP THAI was retained
Elmidae	–	7	Appeared at slightly higher range of PO ₄ -P value than Psychomyiidae
Baetidae	4	4	Taxon score of BWMP THAI was retained
Ecnomidae	–	4	The change point and confident interval was similar to that of Baetidae.
Thiaridae	3	3	Taxon score of BWMP THAI was retained
Oligochaeta	1	1	Taxon score of BWMP THAI was retained
Podocopida	–	1	Appeared at very high PO ₄ -P concentration.