

Appendix I. Habitat Suitability Criteria including depth (m), baetid/chironomid hydropsychid (BCH) weight Habitat Suitability Index (HSI), all weight HSI, and diversity HSI.

Depth	BCH Weight HSI	All Weight HSI	Diversity HSI
0.00	0.00	0.00	0.00
0.03	0.00	0.09	1.00
0.06	0.02	0.18	1.00
0.09	0.03	0.26	1.00
0.12	0.06	0.34	1.00
0.15	0.09	0.41	1.00
0.18	0.12	0.48	1.00
0.21	0.16	0.55	1.00
0.24	0.21	0.61	1.00
0.27	0.26	0.66	1.00
0.30	0.31	0.72	1.00
0.34	0.36	0.76	1.00
0.37	0.41	0.81	1.00
0.40	0.47	0.85	1.00
0.43	0.52	0.88	1.00
0.46	0.58	0.91	1.00
0.49	0.63	0.94	1.00
0.52	0.68	0.96	1.00
0.55	0.74	0.97	1.00
0.58	0.78	0.99	1.00
0.61	0.83	1.00	1.00
0.64	0.87	1.00	1.00
0.67	0.91	1.00	1.00
0.70	0.94	0.99	1.00
0.73	0.96	0.99	1.00
0.76	0.98	0.97	1.00
0.79	0.99	0.95	1.00
0.82	1.00	0.93	1.00
0.85	1.00	0.91	1.00
0.88	0.99	0.87	1.00
0.91	0.97	0.84	1.00
0.94	0.93	0.80	1.00
0.98	0.89	0.76	1.00
1.01	0.84	0.71	1.00
1.04	0.78	0.65	1.00
1.07	0.70	0.60	1.00
1.10	0.61	0.54	1.00
1.13	0.51	0.47	1.00
1.16	0.40	0.40	1.00
1.19	0.27	0.33	1.00
1.22	0.12	0.25	1.00
1.25	0.00	0.16	1.00

Depth	BCH Weight HSI	All Weight HSI	Diversity HSI
1.28	0.00	0.08	1.00
1.31	0.00	0.00	1.00
1.34	0.00	0.00	1.00
1.37	0.00	0.00	1.00
1.40	0.00	0.00	1.00
1.43	0.00	0.00	1.00
1.46	0.00	0.00	1.00
1.49	0.00	0.00	1.00
1.52	0.00	0.00	1.00
1.55	0.00	0.00	1.00
1.58	0.00	0.00	0.00
1.83	0.00	0.00	0.00

Appendix II. Habitat Suitability Criteria including velocity (m/s), baetid/chironomid hypsychid (BCH) weight Habitat Suitability Index (HSI), all weight HSI, and diversity HSI.

Velocity	BCH Weight HSI	All Weight HSI	Diversity HSI
0.00	0.00	0.00	0.78
0.03	0.08	0.09	0.78
0.06	0.15	0.17	0.78
0.09	0.23	0.25	0.79
0.12	0.29	0.33	0.80
0.15	0.36	0.40	0.81
0.18	0.42	0.47	0.83
0.21	0.48	0.53	0.84
0.24	0.54	0.59	0.86
0.27	0.59	0.65	0.87
0.30	0.64	0.70	0.89
0.34	0.69	0.75	0.91
0.37	0.73	0.79	0.92
0.40	0.77	0.83	0.93
0.43	0.81	0.87	0.95
0.46	0.84	0.90	0.96
0.49	0.87	0.92	0.97
0.52	0.90	0.95	0.98
0.55	0.92	0.97	0.99
0.58	0.94	0.98	0.99
0.61	0.96	0.99	1.00
0.64	0.97	1.00	1.00
0.67	0.99	1.00	1.00
0.70	0.99	1.00	1.00
0.73	1.00	0.99	1.00
0.76	1.00	0.98	0.99
0.79	1.00	0.97	0.98
0.82	0.99	0.95	0.98

Velocity	BCH Weight HSI	All Weight HSI	Diversity HSI
0.85	0.99	0.93	0.97
0.88	0.97	0.90	0.96
0.91	0.96	0.87	0.95
0.94	0.94	0.84	0.93
0.98	0.92	0.80	0.92
1.01	0.90	0.75	0.91
1.04	0.87	0.71	0.90
1.07	0.84	0.66	0.88
1.10	0.81	0.60	0.87
1.13	0.77	0.54	0.86
1.16	0.73	0.48	0.85
1.19	0.69	0.41	0.85
1.22	0.64	0.34	0.84
1.25	0.59	0.26	0.84
1.28	0.54	0.18	0.84
1.31	0.48	0.10	0.85
1.34	0.43	0.06	0.86
1.37	0.36	0.00	0.88
1.40	0.30	0.00	0.90
1.43	0.23	0.00	0.92
1.46	0.16	0.00	0.96
1.48	0.11	0.00	0.98
1.49	0.08	0.00	0.00
1.52	0.00	0.00	0.00

Appendix III. Habitat Suitability Criteria including substrate code, baetid/chironomid hypsychid (BCH) weight Habitat Suitability Index (HSI), all weight HSI, and diversity HSI.

Substrate Code	BCH Weight HSI	All Weight HSI	Diversity HSI
0	0.00	0.00	0.00
0.1	1.00	0.27	1.00
1	1.00	0.27	1.00
1.2	1.00	0.27	1.00
1.3	1.00	0.27	1.00
2.3	1.00	0.27	1.00
2.4	1.00	0.27	1.00
3.4	1.00	0.27	1.00
3.5	1.00	0.27	1.00
4.6	1.00	0.27	1.00
6.8	1.00	1.00	1.00
8	1.00	1.00	1.00
9	1.00	0.27	1.00
10	1.00	1.00	1.00
11	0.00	0.00	0.00
100	0.00	0.00	0.00