

SUPPLEMENTARY MATERIAL S2

TABLE S2 | Table with 238 metrics obtained from the habitat assessment protocol. SD: Standard deviation.

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Mean Depth Section (cm)	34.56	22.27	32.95	33.76	35.29	46.89	38.07	33.33	58.29
SD Depth Section (cm)	16.68	16.07	14.24	16.56	18.75	20.95	20.05	20.13	34.05
Mean Thalweg Depth (cm)	45.00	42.70	56.86	25.70	43.82	51.11	75.27	41.06	61.11
SD Depth Thalweg (cm)	13.75	10.95	15.10	13.45	14.19	15.42	21.51	18.65	29.43
Mean Wet Width (m)	1.98	1.06	1.45	1.37	1.22	1.95	2.06	0.74	1.73
SD Wet Width (m)	0.70	0.37	0.47	0.34	0.49	0.84	1.11	0.34	0.61
Mean Width Channel Bars (m)	0.05	0.32	0.00	0.47	0.06	0.02	0.00	0.00	0.20
SD Width Channel Bars (m)	0.15	0.74	0.00	0.96	0.19	0.06	0.00	0.00	0.65
Mean Width Seasonal Channel (m)	5.71	5.50	12.48	11.27	9.63	2.85	4.66	4.86	5.63
SD Width Seasonal Channel (m)	3.67	1.57	22.76	1.18	2.67	0.73	1.52	1.36	1.35
Mean Seasonal Channel Height (m)	0.59	0.71	0.67	2.25	0.65	0.89	0.57	0.42	0.34
SD Seasonal Channel Height (m)	0.37	0.16	0.44	3.83	0.14	0.15	0.33	0.14	0.19
Mean Incision Height (m)	10.00	7.81	10.00	8.25	10.00	1.06	10.00	9.13	10.00
SD Incision Height (m)	0.00	3.75	0.00	3.88	0.00	0.12	0.00	2.87	0.00
Section Area (Width X Depth) (m ²)	0.67	0.22	0.45	0.46	0.44	0.87	0.80	0.24	1.00
SD Section Area (Width X Depth) (m ²)	0.31	0.12	0.13	0.16	0.26	0.26	0.50	0.14	0.52
Width & Depth Ratio Section	4.41	7.04	4.57	7.27	2.66	3.64	3.41	5.02	5.80
SD Ratio Width & Depth Section	5.14	6.12	2.31	1.80	1.71	2.98	3.15	1.74	1.85
Area Stretch (Width x Depth) (m ²)	0.77	0.28	0.58	0.63	0.60	1.07	1.10	0.35	1.54
Ratio Width & Depth Stretch	4.21	4.22	3.46	3.11	2.29	3.31	2.94	1.83	2.71
Mean Angle Margins (degrees)	27.23	20.36	29.86	19.91	16.09	38.68	24.32	17.14	16.14
SD Angle Margins (degrees)	10.08	12.22	28.88	26.19	8.45	46.30	17.95	10.85	7.13
Mean Excavated Margins Distance (m)	0.00	9.45	0.11	0.02	0.00	9.21	4.43	5.00	2.95
SD Excavated Margins Distance (m)	0.00	20.69	0.23	0.12	0.00	16.63	10.12	11.35	9.62
Mean Immersion (Channel + Margins) (%)	63.45	59.11	73.00	80.18	63.07	62.81	67.73	72.82	41.27
SD Immersion (Channel + Margins) (%)	42.29	40.28	37.10	36.23	38.63	43.61	41.17	38.97	38.56
Mean Immersion (Channel) (%)	67.88	61.42	75.00	93.64	57.67	61.88	65.45	80.76	35.76
SD Immersion (Channel) (%)	41.35	40.71	37.25	21.77	41.50	44.23	43.05	36.57	36.77
Bedrock S - Flat Rock (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bedrock R - Rugged Rock (%)	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00
Bedrock - Rock (Flat + Rugged) (%)	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00
Large Boulder (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Small Boulder (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Boulder (Larger + Small) (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cobble (%)	0.00	0.00	0.00	0.00	0.00	2.67	0.00	0.00	0.00
Gravel C - Coarse gravel (%)	0.00	0.00	0.00	0.00	0.00	2.67	1.33	0.00	0.00
Substrate > 16mm Diameter (%)	0.00	0.00	0.00	0.00	0.00	5.33	2.67	0.00	0.00
Gravel F - Fine gravel (%)	0.00	0.00	0.00	0.00	10.81	12.00	2.67	4.00	2.70
San (%)	24.32	6.67	6.67	8.00	17.57	37.33	17.33	6.67	5.41



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Fine - Silte (%)	18.92	20.00	32.00	44.00	2.70	2.67	20.00	18.67	0.00
Substrate <16 mm Diameter - Transect and Mesotransect (%)	43.24	26.67	38.67	52.00	31.08	52.00	40.00	29.33	8.11
Total Organic - Organic Matter (%)	56.76	68.00	60.00	38.67	67.57	42.67	13.33	21.33	48.65
Wood (%)	4.05	16.00	16.00	1.33	6.76	25.33	6.67	0.00	1.35
Concrete (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hardpan - Consolidated Clay (%)	0.00	0.00	1.33	9.33	1.35	0.00	4.00	38.67	2.70
Other (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roots (%)	9.46	14.67	12.00	28.00	48.65	9.33	1.33	9.33	17.57
Fine Litter - Organic Matter (%)	4.05	0.00	5.33	1.33	0.00	1.33	0.00	0.00	0.00
Coarse Litter - Leaf Bank (%)	39.19	37.33	26.67	8.00	12.16	6.67	1.33	10.67	0.00
Algae - Algae (%)	0.00	0.00	0.00	0.00	0.00	0.00	4.00	1.33	29.73
Macrophyte - Macrophytes (%) (NEW)	0.00	5.33	0.00	0.00	0.00	0.00	40.00	10.67	40.54
Presence of Small Sediment in the Thalweg (% of the stretch)	0.64	0.43	0.54	0.79	0.69	0.66	0.61	0.44	0.29
Mean Substrate Size	8.70	8.46	8.64	8.29	8.64	8.70	6.84	6.55	6.82
SD Substrate Size	16.46	16.55	15.94	15.89	17.59	15.30	11.87	10.76	13.89
Log10 Subst. D50	1.46	0.90	1.55	3.29	0.80	1.66	5.97	3.22	0.27
SubDM (D50)	29.03	7.97	35.19	19.43	6.37	45.55	9.40	16.49	1.88
Mean Residual Pools (m ² per 150m of Channel)	1.40	1.10	1.55	1.41	1.48	1.63	2.22	1.94	3.09
Relative Bed Stability (Critical Diameter)	0.05	0.02	0.09	1.07	0.01	0.21	3.11	5.11	0.00
Log10 - Relative Bed Stability (Critical Diameter)	-1.34	-1.68	-1.04	0.03	-2.25	-0.67	3.49	0.71	-2.50
Falls - Waterfalls (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.67	0.00
Cascade - Waterfalls (%)	0.00	0.00	0.67	0.00	0.67	0.67	4.00	0.00	0.67
Rapids (%)	1.33	0.00	2.00	16.67	2.01	2.67	20.00	4.00	0.67
Riffle - Rapids (%)	24.67	2.00	19.33	68.00	32.89	30.67	54.67	14.00	8.00
Glide - Smooth Flow (%)	74.00	96.67	78.00	15.33	64.43	66.00	20.67	81.33	90.67
Impoundment Pool - Pool by Dam (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Plunge Pool - Pool after Waterfall (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lateral Scour Pool - Pool formed by the Margin (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trench Pool - Trench Pool (%)	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Backwater Pool - Pool by Backwater (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dry Channel - Dry Channel (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FA + CA + RA + IR (%)	26.00	2.00	22.00	84.67	35.57	34.00	79.33	18.67	9.33
GL + All Pool Types (%)	74.00	98.00	78.00	15.33	64.43	66.00	20.67	81.33	90.67
All Pool Types - Any Pool Type (%)	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sequence Fast Flow, Smooth and Pools	0.07	0.07	0.13	0.05	0.09	0.15	0.11	0.07	0.08
Fast and Slow Flow Sequence	0.07	0.04	0.13	0.05	0.08	0.15	0.11	0.07	0.08
Mean Elevation Stretch	2.30	5.68	4.07	10.20	8.85	6.80	6.75	14.85	5.95
SD Section Elevation	2.06	3.47	4.65	5.60	12.22	3.16	6.12	21.92	3.37
Mean Declivity Stretch%	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00
SD Slope Stretch%	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Sinuosity Stretch	1.11	1.21	1.04	1.04	1.08	1.07	1.18	1.07	1.05
Mean Canopy Channel (%)	85.29	94.25	91.58	84.76	94.39	90.11	27.14	52.67	20.99
SD Canopy Channel (%)	10.34	3.57	7.12	6.87	3.65	18.74	27.40	31.20	13.83
Mean Canopy Margins (%)	90.91	93.85	94.39	87.43	93.85	96.52	32.62	58.02	22.99
SD Canopy Margens (%)	6.89	5.50	4.82	7.79	5.65	19.77	28.16	29.03	18.22
Mean Large Trees Canopy	16.48	9.09	12.05	24.32	9.09	8.18	0.45	0.23	0.68
SD Large Trees Canopy	9.82	5.28	15.88	15.02	8.53	5.49	1.01	0.75	1.17
Mean Small Trees Canopy	41.48	42.27	25.34	40.11	23.07	29.89	9.55	2.27	4.55
SD Small Trees Canopy	14.86	17.53	21.92	22.24	14.61	17.66	5.46	2.08	4.85
Mean Woody undergrowth	33.98	52.05	48.75	32.27	38.52	53.41	15.57	30.57	17.05
SD Undergrowth Woody	12.84	14.94	19.19	17.20	12.65	15.08	7.49	23.94	8.84
Mean Undergrowth Herbs	45.34	30.11	8.64	24.77	7.27	10.00	46.14	59.55	35.57
SD Undergrowth Herbs	19.11	14.65	8.09	13.73	6.37	6.98	22.30	34.34	30.68
Mean Woody Crawler	14.32	23.30	42.73	21.02	22.73	24.55	11.14	11.48	13.07
SD Woody Crawler	14.05	18.14	13.51	9.43	13.60	16.38	7.01	9.76	14.06
Mean Ground Cover herbs	16.59	16.25	37.04	26.70	72.04	43.75	75.22	9.20	68.29
SD Ground Cover herbs	18.14	22.72	11.04	14.28	15.58	14.41	15.35	26.61	13.11
Mean Soil Exposed	0.23	0.00	0.00	1.14	1.14	0.00	0.23	2.27	0.00
SD Solo Exposed	0.75	0.00	0.00	1.72	3.77	0.00	0.75	4.40	0.00
Mean Canopy Cover	57.95	51.36	37.39	64.43	32.16	38.07	10.00	2.50	5.23
SD Canopy Cover	15.85	20.63	33.39	28.19	17.50	17.61	6.02	2.50	4.40
Mean Intermediate coverage	79.32	82.16	57.39	57.05	45.80	63.41	61.70	90.11	52.61
SD Intermediate coverage	29.59	20.05	23.75	23.80	15.71	15.04	25.47	31.58	24.20
Mean Low Cover	30.57	50.00	51.93	37.61	66.48	61.59	79.43	83.52	88.30
SD Low Cover	19.24	26.42	13.15	22.54	23.18	14.26	21.15	23.01	24.23
Mean Canopy + Intermed	137.27	133.52	94.77	121.48	77.95	101.48	71.70	92.61	57.84
SD Canopy + Intermed	35.93	32.86	40.85	47.80	22.85	24.65	27.89	30.76	27.33
Mean Canopy + Woody Intermed	91.93	103.41	86.14	96.70	70.68	91.48	25.57	33.07	22.27
SD Canopy + Woody Intermed	18.94	29.02	34.53	41.68	19.49	26.17	10.42	24.59	7.43
Mean Full Coverage	167.84	183.52	146.70	159.09	144.43	163.07	151.14	176.14	146.14
SD Full Coverage	32.37	44.48	45.85	49.65	38.26	29.22	37.85	45.76	19.85
Mean Woody Cover	106.25	126.70	128.86	117.73	93.41	116.02	36.70	44.55	35.34
SD Woody Cover	23.87	40.79	42.82	43.79	29.46	34.21	12.70	31.27	18.41
Canopy Presence by Transect	1.00	1.00	1.00	1.00	1.00	1.00	0.82	0.45	0.68
Sub-Grove Presence by Transect	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Presence Undergrowth by Transect	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Presence Canopy and Undergrowth Transect	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Presence of Riparian Vegetation by Transect	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Wood Number / 150m - Size Class 1	24.00	36.00	28.00	24.00	22.67	41.33	21.33	2.67	12.00
Wood Number / 150m - Size Class 2	12.67	9.33	6.67	9.33	2.67	16.00	14.00	0.00	3.33
Wood Number / 150m - Size Class 3	6.67	2.00	2.00	1.33	0.00	2.67	4.00	0.00	0.67



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Wood Number / 150m - Size Class 4	0.67	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.67
Wood Number / 150m - Size Class 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood Volume / 150m - Size Class 1	9.94	7.29	8.84	6.42	1.95	8.48	7.72	0.15	7.67
Wood Volume / 150m - Size Class 2	2.70	7.38	2.77	3.4	0.00	0.00	6.28	6.04	3.76
Wood Volume / 150m - Size Class 3	9.28	5.74	7.60	5.57	0.79	7.01	7.29	0.00	7.17
Wood Volume in Bed / 150m - Size Class 4	1.94	0.00	4.66	0.00	0.00	0.00	0.00	0.00	6.28
Volume Wood in Bed / 150m - Size Class 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Wood Number Above / 150m - Size Class 1	6.67	26.00	16.00	8.00	6.00	18.00	0.00	1.33	0.00
Total Wood Number Above / 150m - Size Class 2	2.67	5.33	11.33	3.33	0.67	3.33	0.00	1.33	0.00
Total Wood Number Above / 150m - Size Class 3	1.33	2.00	8.00	0.00	0.67	3.33	0.00	0.67	0.00
Total Wood Number Above / 150m - Size Class 4	0.67	0.00	3.33	0.00	0.67	2.00	0.00	0.00	0.00
Total Wood Number Above / 150m - Size Class 5	0.00	0.00	1.33	0.00	0.67	0.00	0.00	0.00	0.00
Volume Wood Outside / 150m - Size Class 1	3.11	4.19	44.84	0.88	15.39	16.74	0.00	0.82	0.00
Volume Wood Outside / 150m - Size Class 2	2.88	2.99	44.57	0.61	15.08	15.89	0.00	0.82	0.00
Volume Wood Outside / 150m - Size Class 3	2.64	2.08	43.56	0.00	15.08	15.89	0.00	0.69	0.00
Volume Wood Outside / 150m - Size Class 4	1.94	0.00	38.70	0.00	15.08	14.50	0.00	0.00	0.00
Volume Wood Outside / 150m - Size Class 5	0.00	0.00	30.16	0.00	15.08	0.00	0.00	0.00	0.00
Wood Number + Higher / 150m - Size Class 1	30.67	62.00	44.00	32.00	28.67	59.33	21.33	4.00	12.00
Wood Number + Higher / 150m - Size Class 2	15.33	14.67	18.00	12.67	3.33	19.33	14.00	1.33	3.33
Wood Number + Higher / 150m - Size Class 3	8.00	4.00	10.00	1.33	0.67	6.00	4.00	0.67	0.67
Wood Number + Higher / 150m - Size Class 4	1.33	0.00	4.00	0.00	0.67	2.00	0.00	0.00	0.67
Wood Number + Higher / 150m - Size Class 5	0.00	0.00	1.33	0.00	0.67	0.00	0.00	0.00	0.00
Volume Wood channel + Superior / 150m - Size Class 1	13.05	11.48	53.68	7.30	17.34	25.23	7.72	0.97	7.67
Volume Wood Canal + Superior / 150m - Size Class 2	12.16	8.73	52.17	6.17	15.87	22.91	7.29	0.82	7.17
Canal + Superior Wood Volume / 150m - Size Class 3	10.02	5.48	49.61	2.71	15.08	18.67	3.77	0.69	6.28
Volume Wood Canal + Superior / 150m - Size Class 4	3.88	0.00	43.36	0.00	15.08	14.50	0.00	0.00	6.28
Canal + Superior Wood Volume / 150m - Size Class 5	0.00	0.00	30.16	0.00	15.08	0.00	0.00	0.00	0.00
Wood Channel Number / m ² - Size Class 1	0.12	0.34	0.19	0.17	0.19	0.21	0.10	0.04	0.07
Wood Channel Number / m ² - Size Class 2	0.06	0.09	0.05	0.07	0.02	0.08	0.07	0.00	0.02
Wood Channel Number / m ² - Size Class 3	0.03	0.02	0.01	0.01	0.00	0.01	0.02	0.00	0.00
Wood Channel Number / m ² - Size Class 4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Wood Channel Number / m ² - Size Class 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Volume Wood Channel / m ² - Size Class 1	0.05	0.07	0.06	0.05	0.02	0.04	0.04	0.00	0.04
Volume Wood Channel / m ² - Size Class 2	0.04	0.03	0.04	0.02	0.00	0.01	0.02	0.00	0.04
Volume Wood Channel / m ² - Size Class 3	0.05	0.05	0.05	0.04	0.01	0.04	0.04	0.00	0.04
Volume Wood Channel / m ² - Size Class 4	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.04
Volume Wood Channel / m ² - Size Class 5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Wood Number Above / m ² - Size Class 1	0.03	0.25	0.11	0.06	0.05	0.09	0.00	0.02	0.00
Total Wood Number Above / m ² - Size Class 2	0.01	0.05	0.08	0.02	0.01	0.02	0.00	0.02	0.00
Total Wood Number Above / m ² - Size Class 3	0.01	0.02	0.06	0.00	0.01	0.02	0.00	0.01	0.00
Total Wood Number Above / m ² - Size Class 4	0.00	0.00	0.02	0.00	0.01	0.01	0.00	0.00	0.00



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Total Wood Number Above / m ² - Size Class 5	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Volume Wood Outside / m ² - Size Class 1	0.02	0.04	0.31	0.01	0.13	0.09	0.00	0.01	0.00
Volume Wood Outside / m ² - Size Class 2	0.01	0.03	0.31	0.00	0.12	0.08	0.00	0.01	0.00
Volume Wood Outside / m ² - Size Class 3	0.01	0.02	0.30	0.00	0.12	0.08	0.00	0.01	0.00
Volume Wood Outside / m ² - Size Class 4	0.01	0.00	0.27	0.00	0.12	0.07	0.00	0.00	0.00
Volume Wood Outside / m ² - Size Class 5	0.00	0.00	0.21	0.00	0.12	0.00	0.00	0.00	0.00
Wood Number Canal + Higher / m ² - Size Class 1	0.15	0.58	0.30	0.23	0.23	0.30	0.10	0.05	0.07
Wood Number Canal + Higher / m ² - Size Class 2	0.08	0.14	0.12	0.09	0.03	0.10	0.07	0.02	0.02
Wood Number Canal + Higher / m ² - Size Class 3	0.04	0.04	0.07	0.01	0.01	0.03	0.02	0.01	0.00
Wood Number Canal + Higher / m ² - Size Class 4	0.01	0.00	0.03	0.00	0.01	0.01	0.00	0.00	0.00
Wood Number Canal + Higher / m ² - Size Class 5	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00
Volume Wood Channel + Sup / 150m - Size Class 1	0.07	0.11	0.37	0.05	0.14	0.13	0.04	0.01	0.04
Volume Wood Channel + Sup / 150m - Size Class 2	0.06	0.08	0.36	0.04	0.13	0.12	0.04	0.01	0.04
Volume Wood Channel + Sup / 150m - Size Class 3	0.05	0.05	0.34	0.02	0.12	0.10	0.02	0.01	0.04
Volume Wood Channel + Sup / 150m - Size Class 4	0.02	0.00	0.30	0.00	0.12	0.07	0.00	0.00	0.04
Volume Wood Channel + Sup / 150m - Size Class 5	0.00	0.00	0.21	0.00	0.12	0.00	0.00	0.00	0.00
Mean Shelter - Filamentous Algae	0.00	0.45	0.00	2.27	2.27	0.00	32.73	12.27	45.23
Mean Shelter - Aquatic plant	7.95	0.91	0.00	1.36	0.45	0.00	45.45	3.64	73.64
Mean Shelter - Large Wood	2.73	4.09	2.27	9.09	2.73	4.09	2.27	0.00	2.27
Mean Shelter - Small Wood	5.45	15.23	12.95	10.00	3.64	4.09	2.73	0.91	3.18
Mean Shelter - Living Trees	20.68	10.45	15.23	36.14	15.91	18.18	31.36	21.82	18.86
Mean Shelter - Leaf Bank	51.36	79.09	56.82	36.82	23.64	2.27	4.55	6.36	0.91
Mean Shelter - Hanging Vegetation	35.91	29.32	34.77	20.00	17.05	14.09	34.32	38.64	32.27
Mean Shelter - Excavated Margin	2.27	11.59	9.32	0.91	1.82	43.64	6.82	6.82	4.55
Mean Shelter - Boulder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
Mean Shelter - Artificial Structures	3.64	1.36	1.82	0.91	0.91	0.45	0.45	0.00	0.45
Mean Total Shelter	122.05	151.14	133.18	113.86	65.68	86.82	82.50	74.55	62.95
Mean Total Shelter + Algae and Macrophytes	130.00	152.50	133.18	117.50	68.41	86.82	160.68	90.45	181.82
Mean Natural Shelter	118.41	149.77	131.36	112.95	64.77	86.36	82.05	74.55	62.50
Natural Shelter (Including Leaf Bank and Live Roots)	118.41	149.77	131.36	112.95	64.77	86.36	82.05	74.55	62.50
Mean Anthropogenic Shelter (Artificial Structures)	11.59	2.73	1.82	4.55	3.64	0.45	78.64	15.91	119.32
Mean Large Shelter	8.64	17.05	13.41	10.91	5.45	48.18	9.55	6.82	7.73
Shelter Ratio (Number of Records in 11 Measurements) - Filamentous Seaweed	0.00	0.09	0.00	0.09	0.09	0.00	0.55	0.64	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Aquatic Plant	0.27	0.18	0.00	0.27	0.09	0.00	0.82	0.36	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Large Wood	0.55	0.45	0.45	0.73	0.18	0.45	0.45	0.00	0.45
Shelter Ratio (Number of Records in 11 Measurements) - Small Wood	0.73	1.00	0.91	0.91	0.73	0.82	0.55	0.18	0.64
Shelter Ratio (Number of Records in 11 Measurements) - Live Trees	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Leaf Bank	1.00	1.00	1.00	1.00	1.00	0.45	0.91	0.55	0.18



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Shelter Ratio (Number of Records in 11 Measurements) - Hanging Vegetation	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Excavated Margin	0.45	0.64	0.55	0.18	0.36	1.00	0.64	0.64	0.55
Shelter Ratio (Number of Records in 11 Measurements) - Boulder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Shelter Ratio (Number of Records in 11 Measurements) - Artificial Structures	0.36	0.27	0.36	0.18	0.18	0.09	0.09	0.00	0.09
Shelter Ratio (Number of Records in 11 Measurements) - Total	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Total + Macrophytes and Algae	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Natural	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Natural Shelter Ratio (Including Leaf Bank and Live Roots) (Number of Records in 11 Measurements)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Anthropogenic	0.64	0.45	0.36	0.45	0.27	0.09	0.82	0.64	1.00
Shelter Ratio (Number of Records in 11 Measurements) - Large	0.91	1.00	0.55	0.91	0.64	1.00	0.82	0.64	0.73
Proximity Index Wall	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Construction Proximity Index	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
Proximity Index Road	0.00	0.00	0.00	0.00	0.33	0.67	0.67	0.55	0.33
Highway Proximity Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proximity Pipes Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trash Proximity Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proximity Parking Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cultivation Proximity Index	0.33	0.33	0.21	0.00	0.66	0.66	0.66	0.00	0.66
Proximity Pasture Index	0.00	0.00	0.00	0.00	0.67	0.61	1.50	1.43	1.50
Proximity Forestry Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mining Proximity Index	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proximity Total Impact Index	0.33	0.00	0.00	0.33	1.67	1.52	2.83	2.64	2.50
Proximity Impact Non-agricultural Index	0.00	0.00	0.00	0.00	0.33	0.70	0.67	0.55	0.33
Proximity Agricultural Impact Index	0.33	0.00	0.00	0.33	1.33	0.82	2.17	2.10	2.17
Proportion of Human Impact by Section (Number of Records	0.50	0.00	0.00	0.50	1.00	1.00	1.00	1.00	1.00
22 Measurements) - Total (margin + <10m +> 10m)	0.50	0.00	0.00	0.50	1.00	1.00	1.00	1.00	1.00
Ratio of Human Agricultural Impact by Section (Number of Records in 22 Measurements) - Total (margin + <10m +> 10m)	0.00	0.00	0.00	0.00	0.50	1.00	1.00	0.82	0.50
Proportion of Non-Agricultural Human Impact by Section (Number of Records in 22 Measurements) - Total (margin + <10m +> 10m)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.50
Proportion of Human Impact by Section (Number of Records in 22 Measurements) - Margin (B)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.95	1.00
Ratio of Human Agricultural Impact by Section (Number of Records in 22 Measurements) - Margin (B)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of Non-Agricultural Human Impact by Section (Number of Records in 22 Measurements) - Margin (B)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.95	1.00



TABLE S2 | (Continued)

Metrics	Site1	Site2	Site3	Site4	Site5	Site6	Site7	Site8	Site9
Proportion of Human Impact by Section (Number of Records in 22 Measurements) - <10m (C)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.95	1.00
Proportion of Non-Agricultural Human Impact by Section (Number of Records in 22 Measurements) - <10m (C)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Proportion of Human Impact by Section (Number of Records in 22 Measurements) Outside the Riparian Plot	0.50	0.00	0.00	0.50	1.00	1.00	0.00	0.05	0.00
Ratio of Human Agricultural Impact by Section (Number of Records in 22 Measurements) -> 10m (P)	0.50	0.00	0.00	0.50	1.00	1.00	0.00	0.05	0.00
Proportion of Non-Agricultural Human Impact by Section (Number of Records in 22 Measurements) -> 10m (P)	0.00	0.00	0.00	0.00	0.50	1.00	1.00	0.82	0.50
Proportion of Human Impact by Section (Number of Records in the 22 Measurements) in the Stream + Riparian Plots	0.50	0.00	0.00	0.50	1.00	1.00	1.00	0.82	0.50
Ratio of Human Agricultural Impact by Section (Number of Records in 22 Measurements) - (<10m +> 10m) (B + P)	0.50	0.00	0.00	0.50	1.00	1.00	0.00	0.05	0.00
Proportion of Non-Agricultural Human Impact by Section (Number of Records in 22 Measurements) - (<10m +> 10m) (B + P)	0.00	0.00	0.00	0.00	0.50	1.00	1.00	0.82	0.50



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