

Table 4.10. Mean, standard deviation (SD), median, 25th and 75th percentiles for selected environmental variables for each Reference Group, including sub-groups. Variables with median values significantly different (Kruskal-Wallis, $p < 0.05$) amongst groups are shaded. n = number of sites.

Variable Type	Variable	Group	1	2	2a	3	3a
		n	11	29	5	9	3
Catchment	Altitude (m)	Means	1269	1137	648	204	429
		SD	255	240	165	60	201
		Median	1320	1100	550	198	380
		Q25	950	950	518	168	257
		Q75	1448	1300	800	229	650
	Distance from Source (km)	Means	28.5	21.9	56.6	213.1	59.8
		SD	21.2	29.7	35.0	89.6	26.4
		Median	27.0	10.1	53.0	185.2	50.6
		Q25	7.6	5.1	36.7	147.9	39.2
		Q75	48.1	20.3	55.7	289.5	89.5
	Stream Order	Means	3	2	3	5	4
		SD	1	1	1	0	1
		Median	3	2	3	5	4
		Q25	2	2	3	5	3
		Q75	4	3	4	5	4
Site	Stream Width (m)	Means	7.5	7.8	14.2	27.9	11.7
		SD	5.3	5.4	5.4	13.6	3.1
		Median	6.3	6.0	12.7	23.3	11.3
		Q25	4.5	4.3	12.3	20.0	8.8
		Q75	10.3	9.5	15.0	32.0	15.0
	Shallow-water habitat: mean depth (m)	Means	0.19	0.27	0.38	0.35	0.40
		SD	0.03	0.10	0.09	0.12	0.06
		Median	0.19	0.24	0.40	0.35	0.38
		Q25	0.15	0.20	0.37	0.30	0.35
		Q75	0.21	0.30	0.43	0.43	0.47
	Deep-water habitat: mean depth (m)	Means	0.46	0.49	0.47	0.62	0.66
		SD	0.16	0.14	0.08	0.17	0.21
		Median	0.39	0.40	0.45	0.58	0.55
		Q25	0.35	0.40	0.40	0.48	0.52
		Q75	0.56	0.55	0.50	0.68	0.90
Habitat	% Bedrock	Means	11	4	0	34	72
		SD	21	9	0	24	12
		Median	0	0	0	32	68
		Q25	0	0	0	14	63
		Q75	11	0	0	42	85
	% Boulder	Means	20	21	26	5	2
		SD	10	15	18	5	3
		Median	13	19	24	2	0
		Q25	12	14	14	0	0
		Q75	31	27	39	7	6
	% Cobble/pebble	Means	50	56	49	22	5
		SD	17	18	13	15	0
		Median	58	62	57	19	5

Variable Type	Variable	Group	1	2	2a	3	3a
		n	11	29	5	9	3
		Q25	29	39	38	10	5
		Q75	63	70	59	28	5
	% Gravel/sand/mud	Means	20	20	25	39	21
		SD	14	13	7	20	10
		Median	18	15	24	35	27
		Q25	5	11	19	33	10
		Q75	28	23	27	43	27
	% SIC/SOOC	Means	76	72	79	41	10
		SD	14	17	6	25	15
		Median	78	80	75	50	3
		Q25	67	70	75	30	0
		Q75	83	80	85	60	27
	% AQV/MV	Means	10	11	5	18	47
		SD	6	7	6	15	15
		Median	8	10	5	13	43
		Q25	7	10	0	10	35
		Q75	17	10	5	20	64
	% G/S/M	Means	13	17	17	40	42
		SD	11	15	11	22	10
		Median	13	10	20	37	38
		Q25	5	10	10	30	36
		Q75	18	20	25	40	53
Water chemistry	pH	Means	8.01	7.70	7.84	8.19	7.74
		SD	0.22	0.29	0.03	0.23	0.18
		Median	8.03	7.67	7.85	8.20	7.83
		Q25	7.93	7.50	7.80	7.97	7.53
		Q75	8.10	7.90	7.87	8.43	7.87
	Temperature (°C)	Means	14.3	14.9	15.3	20.0	17.5
		SD	1.7	1.4	0.8	1.4	3.0
		Median	14.1	15.1	15.1	20.2	17.3
		Q25	13.0	13.9	14.9	18.7	14.6
		Q75	15.8	16.2	15.9	21.6	20.7
	Conductivity (mS m ⁻¹)	Means	14.8	8.5	10.5	28.4	8.9
		SD	6.2	4.5	1.6	17.3	2.6
		Median	13.5	6.7	11.0	15.0	9.4
		Q25	9.8	5.3	9.1	14.7	6.1
		Q75	18.2	11.0	11.8	44.0	11.2
	Total Dissolved Solids (mg l ⁻¹)	Means	110	63	74	200	61
		SD	48	35	11	129	17
		Median	105	49	76	99	68
		Q25	76	38	65	94	42
		Q75	128	88	82	322	74
	Turbidity (NTU)	Means	1	1	1	2	2
		SD	1	1	0	1	1
		Median	1	1	1	1	2
		Q25	1	1	1	1	1

Variable Type	Variable	Group	1	2	2a	3	3a
		n	11	29	5	9	3
	Dissolved Oxygen (mg l ⁻¹)	Q75	1	2	1	2	3
		Means	8.76	9.76	9.02	8.54	8.45
		SD	0.67	20.00	0.27	0.53	0.79
		Median	9.39	8.77	9.04	8.54	8.13
		Q25	7.97	8.45	8.74	8.06	7.88
		Q75	9.39	9.60	9.29	9.01	9.36
	Alkalinity (as meq l ⁻¹ CaCO ₃)	Means	1.294	0.699	0.797	1.876	0.613
		SD	0.608	0.425	0.119	1.156	0.191
		Median	1.267	0.547	0.807	1.000	0.713
		Q25	0.893	0.400	0.720	0.900	0.393
		Q75	1.453	1.040	0.827	2.993	0.733
	Total Phosphorus (mg l ⁻¹ P)	Means	0.027	0.020	0.039	0.041	0.025
		SD	0.022	0.011	0.032	0.006	0.003
		Median	0.017	0.016	0.022	0.042	0.024
		Q25	0.015	0.013	0.022	0.038	0.022
		Q75	0.029	0.022	0.041	0.043	0.028
	Soluble Reactive Phosphorus (mg l ⁻¹ P)	Means	0.015	0.014	0.017	0.023	0.016
		SD	0.009	0.006	0.004	0.005	0.003
		Median	0.013	0.013	0.017	0.024	0.016
		Q25	0.011	0.011	0.014	0.019	0.014
		Q75	0.014	0.015	0.018	0.028	0.019
	Kjeldahl Nitrogen (mg l ⁻¹ N)	Means	0.204	0.135	0.134	0.267	0.177
		SD	0.135	0.067	0.054	0.063	0.028
		Median	0.157	0.110	0.125	0.283	0.180
		Q25	0.137	0.090	0.090	0.230	0.147
		Q75	0.243	0.130	0.147	0.293	0.203
	Nitrite+Nitrate (mg l ⁻¹ N)	Means	0.102	0.147	0.237	0.409	0.188
		SD	0.098	0.122	0.104	0.414	0.069
		Median	0.063	0.107	0.245	0.133	0.200
		Q25	0.040	0.077	0.213	0.050	0.113
		Q75	0.127	0.187	0.287	0.790	0.250
	Ammonium (mg l ⁻¹ N)	Means	0.04	0.04	0.04	0.04	0.04
		SD	0.01	0.01	0.00	0.00	0.00
		Median	0.04	0.04	0.04	0.04	0.04
		Q25	0.04	0.04	0.04	0.04	0.04
		Q75	0.04	0.04	0.04	0.04	0.04
	Silica (mg l ⁻¹)	Means	8.6	6.7	5.8	8.2	7.2
		SD	2.8	2.7	1.2	2.0	0.5
		Median	8.7	5.6	5.9	8.6	7.3
		Q25	6.9	4.9	4.9	6.3	6.6
		Q75	10.2	7.1	6.5	9.8	7.6