

**Supplementary material**

**Forestry affects the abundance of *Phormidium*-dominated biofilms and the functioning of a New Zealand river ecosystem**

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**Table S1. Benthic organic matter, biofilm and total reach scale characteristics in each river reach**

Data are the mean ( $\pm$ s.d.) of the two sampling periods. BOM, benthic organic matter; AFDM, ash free dry mass; AM, ash mass; Chl-*a*: chlorophyll-*a*, APA, alkaline phosphatase activity

Reach	BOM		Diatom-dominated biofilm				<i>Phormidium</i> -dominated biofilm				Total					
	Percentage cover	AFDM (g m <sup>-2</sup> )	Percentage cover	AFDM (g m <sup>-2</sup> )	AM (g m <sup>-2</sup> )	Chl- <i>a</i> (g m <sup>-2</sup> )	APA (nmol cm <sup>-2</sup> h <sup>-1</sup> )	Percentage cover	AFDM (g m <sup>-2</sup> )	AM (g m <sup>-2</sup> )	Chl- <i>a</i> (g m <sup>-2</sup> )	APA (nmol cm <sup>-2</sup> h <sup>-1</sup> )	AFDM (kg)	AM (kg)	Chl- <i>a</i> (g)	APA ( $\mu$ mol h <sup>-1</sup> )
M1	14 (1.0)	178.2 (172.4)	78 (2.8)	17.6 (11.8)	26.1 (12.5)	0.06 (0.03)	22.9 (14.5)	8 (2.8)	54.5 (4.2)	48.6 (21.3)	0.24 (0.12)	33.9 (7.6)	203.43 (149.62)	115.14 (32.78)	301.64 (48.79)	980.85 (516.37)
M2	8.1 (2.0)	469.5 (156.4)	81.9 (0.9)	20.2 (9.2)	43 (24.5)	0.06 (0.01)	24.2 (10.0)	10 (2.9)	34.1 (16.1)	42.8 (11.8)	0.13 (0.06)	28.6 (12.7)	215.56 (40.37)	154.65 (92.47)	227.34 (54.41)	879.13 (422.99)
M3	9.1 (2.2)	389.1 (138.2)	75 (0.9)	25.4 (17.8)	69.1 (33.2)	0.1 (0.05)	39.3 (22.5)	15.9 (1.3)	49.7 (9.5)	34 (16.6)	0.31 (0.08)	34.1 (1.3)	214.91 (59.71)	201.94 (59.71)	427.64 (100.52)	1231.09 (100.52)
M4	8.8 (0.1)	123.9 (57.2)	79.3 (0.0)	20.1 (3.4)	38.1 (1.8)	0.06 (0.01)	21.1 (5.1)	12.4 (0.8)	56.2 (17.9)	24.9 (13.7)	0.24 (0.03)	40.1 (7.0)	209.25 (17.74)	207.51 (2.07)	436.54 (47.02)	1342.62 (96.50)
M5	7.8 (1.2)	374.7 (116.1)	77.4 (0.2)	25.8 (7.9)	53.4 (25.2)	0.12 (0.04)	43.8 (3.5)	14.9 (1.1)	63.2 (9.3)	55.9 (15.3)	0.31 (0.04)	60 (1.3)	346.85 (24.96)	291.75 (93.41)	826.36 (118.87)	2578.45 (162.06)