

**Table S3.** Quantities of substrate-derived carbon incorporated into individual PLFAs in the upper 2 cm of sediment over the 6-day experimental duration ( $\text{nmol C m}^{-2} \text{exp}^{-1} \pm \text{SEM}$ ) during May and October. Values are net and expressed for the 6-day experimental duration to avoid the assumption that rates are linear.

	May		October	
	Faeces	Diatom	Faeces	Diatom
i15:0	$0.050 \pm 0.027$	$0.076 \pm 0.012$	$0.087 \pm 0.002$	$0.055 \pm 0.001$
a15:0	$0.033 \pm 0.019$	$0.061 \pm 0.018$	$0.053 \pm 0.002$	$0.036 \pm 0.002$
15:0	$0.027 \pm 0.015$	$0.058 \pm 0.011$	$0.054 \pm 0.007$	$0.038 \pm 0.001$
i16:0	$0.028 \pm 0.015$	$0.030 \pm 0.005$	$0.051 \pm 0.003$	$0.021 \pm 0.001$
a17:0	$0.012 \pm 0.006$	$0.031 \pm 0.005$	$0.022 \pm 0.003$	$0.014 \pm 0.001$
PLFA 12-Me-16:0	$0.007 \pm 0.004$	$0.003 \pm 0.002$	$0.013 \pm 0.004$	$0.002 \pm 0.001$
17:1 $\omega$ 8c	$0.007 \pm 0.004$	$0.016 \pm 0.003$	$0.016 \pm 0.002$	$0.012 \pm 0.001$
17:0cy	$0.005 \pm 0.002$	$0.014 \pm 0.000$	$0.024 \pm 0.004$	$0.010 \pm 0.001$
17:0	$0.006 \pm 0.005$	$0.011 \pm 0.000$	$0.013 \pm 0.002$	$0.007 \pm 0.001$
19:1 $\omega$ 8	$0.014 \pm 0.007$	$0.011 \pm 0.001$	$0.007 \pm 0.006$	$0.006 \pm 0.001$
19:0cy	$0.006 \pm 0.003$	$0.010 \pm 0.001$	$0.009 \pm 0.003$	$0.005 \pm 0.000$