

**Table 2.** Annual average hydrologic and chemical characteristics of soil and stream water samples from Innavait Creek.

		Soil Water		Pool Bottom Water		Pool Surface Water	
		2011	2012	2011	2012	2011	2012
<b>Water Temp</b>	°C			11 ± <1	11 ± <1	14 ± 1 <sup>A</sup>	11 ± 1 <sup>B</sup>
<b>pH</b>		5.2 ± 0.4	5.2 ± 0.1	5.5 ± 0.1	5.6 ± 0.1	5.7 ± 0.1	5.7 ± 0.1
<b>Conductivity</b>	µs cm <sup>-1</sup>	26 ± 1	25 ± 2	42 ± 10 <sup>A</sup>	17 ± 3 <sup>B</sup>	13 ± <1	12 ± <1
<b>DOC</b>	µM C	1357 ± 110	1412 ± 78	1252 ± 85 <sup>A</sup>	1100 ± 17 <sup>B</sup>	785 ± 13 <sup>A</sup>	1028 ± 21 <sup>B</sup>
<b>a<sub>305</sub></b>	m <sup>-1</sup>	96 ± 10	87 ± 7	118 ± 19 <sup>A</sup>	61 ± 2 <sup>B</sup>	53 ± 2	53 ± 1
<b>S<sub>R</sub></b>		0.75 ± 0.01	0.74 ± 0.01	0.70 ± 0.02 <sup>A</sup>	0.75 ± 0.01 <sup>B</sup>	0.78 ± 0.02	0.76 ± <0.01
<b>SUVA<sub>254</sub></b>	(L mg C <sup>-1</sup> m <sup>-1</sup> )	4.4 ± 0.1 <sup>A</sup>	4.1 ± 0.1 <sup>B</sup>	5.2 ± 0.5 <sup>A</sup>	3.9 ± 0.1 <sup>B</sup>	4.5 ± 0.1 <sup>A</sup>	3.7 ± <0.1 <sup>B</sup>
<b>Peak A</b>	RU	3.3 ± 0.2	2.9 ± 0.2	3.5 ± 0.1 <sup>A</sup>	2.8 ± <0.1 <sup>B</sup>	2.5 ± <0.1 <sup>A</sup>	2.7 ± 0.1 <sup>B</sup>
<b>FI</b>		1.59 ± 0.01	1.60 ± 0.01	1.55 ± 0.01 <sup>A</sup>	1.57 ± 0.01 <sup>B</sup>	1.51 ± 0.01 <sup>A</sup>	1.55 ± <0.01 <sup>B</sup>

All values are seasonal averages ± standard error across all dates in 2011 or 2012. Letters indicate significant difference ( $p < 0.05$ ) in mean values between years (2011 vs. 2012) for each water type (soil waters, pool bottom waters, and pool surface waters).

**Table 3.** DOM in soil waters compared to pool water in Innavait Creek under stratified conditions

		<b>Soil Water</b>	<b>Pool Bottom Water</b>	<b>Pool Surface Water</b>
<b>DOC</b>	$\mu\text{M C}$	$1382 \pm 69$	$1188 \pm 56$	$815 \pm 12$
<b><math>a_{305}</math></b>	$\text{m}^{-1}$	$92 \pm 6$	$100 \pm 13$	$50 \pm 1$
<b><math>S_R</math></b>		$0.75 \pm 0.01$	$0.71 \pm 0.01$	$0.77 \pm 0.01$
<b>SUVA<sub>254</sub></b>	$(\text{L mg C}^{-1} \text{ m}^{-1})$	$4.4 \pm 0.1$	$4.9 \pm 0.3$	$4.2 \pm 0.1$
<b>Peak A</b>	RU	$3.1 \pm 0.2$	$3.2 \pm 0.1$	$2.38 \pm 0.05$
<b>FI</b>		$1.60 \pm 0.01$	$1.57 \pm 0.01$	$1.52 \pm 0.01$

All values shown as average  $\pm$  standard error; calculated in the pool surface or bottom across all dates in 2011 and 2012 when pools were stratified (2011: 27-Jun, 29-Jun, 14-Jul, 4-Aug; 2012: 23-Jun, 30-Jun). Soil water means were calculated from over both years (2011-2012). All water types were statistically different from one another for all variables (ANOVA  $p < 0.01$ ).

