Table S1. The spectral slopes of the identified components and their corresponded components in previous studies from the OpenFluor database

	Ex. wavelength (nm)	Em. wavelength (nm)	Similarity score	previous study	Component type
C1	248,324	412	0.96	(Graeber, et al., 2012)	Terrestrial humic
C2	244,376	482	0.99	(Shutova, et al., 2014)	Terrestrial humic, Higher aromaticity
C3	300	406	0.98	(Walker, et al., 2009)	Microbial humic
C4	356	436	0.97	(Osburn, et al., 2016)	Terrestrial humic, lower aromaticity
C5	240,272	322	0.99	(Kothawala, et al., 2014)	Protein-like