

CF016: Solute dynamics in the hyporheic zone of a headwater stream in Watershed 1 at the Andrews Experimental Forest, 2016-2018

TABLE 1: Summary of mesocosm background samples and injection experiments giving the starting and ending date and time, the duration of the experiment (hours), and the applied treatments to each pair of mesocosms (M1&M2, M3&M4, M5&M6). The treatments are abbreviated (**NaAC** = sodium acetate; **AlderLeaf** = leachates were made with stream water and air-dried green alder leaves; **ForestFloor Oa** = leachates from the air-dried Oa horizon of the riparian forest floor. For each treatment, we provide the average of the observed DOC concentrations at the mesocosm inlets averaged for both the early- and late-plateau samples for each pair of mesocosms (n=4).

Injection Number	Run	Start Date/Time	End Date/Time	Duration	M1 & M2	M3 & M4	M5 & M6
1	1st-Acetate	10/23/2016 18:10	10/27/2016 19:00	97.00 hours	Control 1.93 mg/L	1xNaAC 2.74 mg/L	2xNaAC 4.22 mg/L
BG1	Background	3/29/2017 10:37	3/29/2017 14:43	n/a	n/a	n/a	n/a
2	2nd-Acetate	4/23/2017 8:45	4/27/2017 9:50	97.33 hours	1xNaAC 2.19 mg/L	2xNaAC 3.21 mg/L	Control 1.47 mg/L
3	1st-Leachate	7/29/2017 16:05	8/2/2017 16:45	96.75 hours	ForestFloor Oa 0.78 mg/L	Control 0.62 mg/L	AlderLeaf 1.25 mg/L
BG2*	Background	2/6/2018 11:00	2/6/2018 22:00	n/a	n/a	n/a	n/a
BG3*	Background	2/6/2018 11:24	2/6/2018 21:55	n/a	n/a	n/a	n/a
4	2nd-Leachate	4/17/2018 10:15	4/21/2018 21:30	108.00 hours	AlderLeaf 4.67 mg/L	Control 0.85 mg/L	ForestFloor Oa 2.29 mg/L
5	Humic Acid	8/28/2018 10:15	9/1/2018 19:30	105.33 hours	Control 0.56 mg/L	HumicAcid 1.85 mg/L	NaAC 0.58 mg/L

* BG2 and BG3: We made minor changes to the way we collected samples from the mesocosm to make sampling more efficient. To ensure that this change did not lead to systematic changes in the chemical concentrations observed in our water samples. Thus, we collected paired samples, using each method. "BG2" indicates the original sampling protocol used in all previous samples; "BG3" indicates the new sampling protocol used in all subsequent samples.