Marie Skłodowska-Curie

Innovative Training Network

"HypoTRAIN"

Hyporheic Zone Processes – A training network for enhancing the understanding of complex physical, chemical and biological process interactions

Grant Agreement No. 641939

Deliverable D5.2

Data set for the joint study at the "Ecolab"
at the University of Birmingham

Dissemination Level of Deliverable:

PU	Public	X
CO	Confidential, only for the members of the consortium (including the Commission Services)	

Data set for the joint study at the Ecolab

Following the joint studies at the flumes in the Ecolab at the University of Birmingham (see D2.1) the comprehensive results of hydrological and biogeochemical analysis were collected on the communication platform Mondo (see D7.2). This enabled a quick overview for everyone involved in this project.

Since about 10 ESRs collaborated in the flume experiments the coordination and processing of information was dedicated to Anna Jäger (ESR 11). Anna had successfully coordinated the joint field experiments at the River Erpe in June 2016 (see D5.1) and now benefited from her experiences. Her tasks are sharing new information and coordinating the different analysis of the samples taken from the Ecolab flumes on a day to day basis. Besides emails, she organizes Skype meetings on a regular basis for all ESRs and PIs involved into the joint flume experiments. In November, all ESRs and available supervisors met in person during the ATCs 9, 12, and 13 in Stockholm to discuss about the progress of the data evaluation. All these measures facilitate a maximum scientific output which is expected to result in several research articles.

The setup of the experiments encompassed 24 flumes with sediments differing in microbial diversity and bedforms (see Deliverable 2.1). The dataset comprises degradation curves of the injected micropollutants as well as concentration curves of relevant transformation products, measured at Stockholm University and EAWAG Zürich, respectively. In addition, nutrient concentrations from surface and pore water as well as sorption parameters for different organic compounds are lodged on the internal communication platform Mondo. Time series of external parameters (e. g. air temperature, radiation etc.) are available on Mondo as well.