

NANOREM project

STUDY FOR THE TREATMENT OF RUNOFF WATER WITHOUT TREATMENT IN OPEN-AIR CAR PARKS

Works that are being developed in the Urban River Lab URL within the framework of the Nanorem project, a European and multidisciplinary research project in line with Marie Skłodowska-Curie Individual Fellowships (IF)

Sampling report

Towards the end of the winter resting period, on the week of the 12th to 16th of March 2018, it was carried out a second sampling of the runoff water treatment experiment in the URL, as part of the European project NANOREM (WP6).

In the first place, the water level from each experimental case was measured and then samples of water were taken for its subsequent analysis. Lately the experiment has received only contributions from rainwater since rainfall has made irrigation unnecessary. Afterwards a visual inspection of the plants was carried out. All individuals have survived the winter and are still at rest. The *Vitex agnus-castus* has no leaves, and both *Scirpus holoschoenus* and *Carex vulpina* have many dry leaves.



Fig.1 Picture of the three experimental channels at the end of the winter season before the second sampling

Finally three sampling plants were taken from each experimental case. The roots were washed four times with tap water and once more with distilled water until all substrate remains were removed. After, the length of the roots and the height of the stem were measured. Roots and stem were separated and dried to 60°C so as to obtain the dry weight. Later it will be carried out the analysis of metal content from the plants and water samples in the Scientific and Technological Center of the University of Barcelona (CCiTUB).