



Stormwater Action Monitoring Newsletter - #11 March 2021

Collectively improving stormwater management

Completed SAM studies and projects

When completed SAM projects are consolidated from their own project website to the SAM webpage for the type of study. For example effectiveness studies are placed in the 'Completed Projects' section of the SAM Effectiveness Studies website. We keep the scope of work, final reports, presentations, other key deliverables, and once completed the SAM fact sheet for each closed project. Some recently completed projects are:

- **Fungi Amendments to bioretention treatment performance**

This study compared stormwater treatment performance in bioretention mesocosms using the 60:40 default soil mix with different surface treatments: fungi inoculated mulch, un-inoculated mulch, plants, and no plant controls. The fungal inoculated mulch was found to significantly reduce dissolved phosphorus export immediately from mesocosms and also improved soil moisture conditions. The project details are on the [SAM Effectiveness studies website](#) along with the [SAM Fact Sheet #019 Plant and fungi amendments to bioretention](#) for pollutant reduction are now available.

- **Bioretention hydrologic performance**

Constructed bioretention facilities, designed using the current software version of Western Washington Hydrology Model (WWHM 2012), were found to perform to model expectations. Improvements in design, review, and construction stages are recommended. The project details are on the [SAM Effectiveness studies website](#) along with the new [SAM Fact Sheet #020 Bioretention hydrologic performance of current designs](#).

- **Completed Illicit Connection-Illicit Detection (IC-ID) Field Screening and Source Tracing Manual**

The 2020 SAM project to update of the IC-ID Manual also created five new short videos on indicator tests and a training on the updated IC-ID Manual. The project details are on the [SAM Source Identification website](#) along with the new [SAM Fact Sheet #21 updated IC-ID Field screening and Source Tracing Manual](#). Stormwater staff can access the videos on hands-on techniques to conduct IC-ID field methods for source tracking on the [Washington Stormwater Center's YouTube channel](#).

SAM's new Effectiveness and Source ID studies

The Round 3 workshop held Sept 16, 2020 and attended by over 80 virtual participants. Eight new study ideas were presented to permittees and stakeholders, [summary sheet of proposals](#). The Stormwater Work Group [approved all eight proposals](#) for SAM funding in 2021 and 2022. The first three projects will get starting in early 2021 and two are underway:

- [Developing and refining source control inspection program for businesses](#)
- [Guidance for evaluating effectiveness of education and outreach programs](#) - This SAM E&O study is calling for Technical Advisory Members (TAC) looking for two Phase II participants. The project will form, coordinate with, and collect feedback from the TAC throughout the project. The TAC will focus on reviewing, testing, and commenting on project deliverables. The comments will be incorporated into the final deliverables. It is anticipated the TAC will be involved in 5 meetings. If you are interested participating on the TAC contact laurie.larson-pugh@wsu.edu.

Redmond Paired Watershed Study -Trend Report

The Paired Watershed Study led by the City of Redmond and Herrera Environmental Consultants have published the first [trends analysis report 2016-2019](#) planned for this long-term stormwater management effectiveness study. [SAM Fact Sheet#23 Paired watershed study - Interim Findings](#)

Stormwater Action Monitoring (SAM) is a collaborative, regional stormwater monitoring program that is funded by more than 90 Western Washington cities and counties, the ports of Seattle and Tacoma, and the Washington State Department of Transportation. www.ecology.wa.gov/SAM