

MINUTES

Technical Advisory Committee Meeting No. 3

August 1, 2023, 2-3 PM

SAM Study: Evaluation of Stormwater BMPs Maintenance Conditions

Teams video call: [Click here to join the meeting](#)

Meeting ID: 247 873 418 464 Passcode: kpjbCS

Audio only: [+1 206-452-7011](#), Phone Conference ID: 622 034 509#

WELCOME

TAC members:

- Don McQuilliams, Bellevue, Lead Agency
- Sammie Howe, Woodinville
- Bonnie McLeod, Tacoma
- Scott McQuary, Redmond
- James Packman, Aspect Consulting
- (Ann Bustamante, Sumner, absent)

Useful links:

1. [NPDES Phase II Permit](#), see section S5.C.7. for Operations and Maintenance requirements for stormwater facilities
2. SWMMWW [Appendix V-A: BMP Maintenance Tables](#)
3. This [Study's webpage](#) on the SAM website

TASK 3: Literature Review of Stormwater BMP Maintenance Data and Standards, and

TASK 4: Ecology Staff Interviews

- Summary of draft *Technical Memorandum: Literature Review of Stormwater BMP Maintenance Standards*.
 - Combined deliverables 3A and 4B by including Ecology Staff Interviews as a chapter in the literature review memo rather than a stand-alone memo on interviews (which didn't occur).
 - Expanded literature review per feedback from Ecology that they didn't have answers to most questions that we asked about the maintenance standards.
- Database searches did not turn up usable data on maintenance records relative to maintenance standards. Instead, database and prior data analyses focus on cost (and cost-benefit) of O&M, maintenance frequencies, and water quality performance.
- Comparison of maintenance standards.
 - Compared Ecology to other longtime stormwater manuals: King County, Seattle, Tacoma, & WSDOT.
 - Ponds and Trenches had the most differences from Ecology standards.
 - Vaults and Tanks had the same standards or had a few minor differences or were not included.
 - Key differences in numeric standards were related to sediment accumulation, liner integrity, ponded water and infiltration capacity, grass height, and the amount of blockage in pipes, treatment media, and filters.
- Historical literature review of historical stormwater manuals.
 - 2001 Ecology stormwater manual, the beginning of the set of BMP Maintenance Tables as they are today.
 - 1992, maintenance standards are dispersed throughout manual by BMP topic.
- Recommendations
 - Consider expanding the distribution of the Ecology Questions to others:
 - County staff who were around in the 1990s. Doug Navetski, Curt Crawford, Derek Booth, Doug Navetski, Bill Lief.
 - Contractors who do the maintenance and know what works.

- Continue ahead with Task 5 to seek and analyze permittee O&M data.
- Narrow the list of specific BMPs to fewer than the 23 in Ecology standards, include older conventional BMPs without recent references like LID BMPs have.
- Design controlled field studies to evaluate the key maintenance standards.

UPCOMING TASKS

- Task 5: Pilot O&M Data Analysis, fall and winter 2023
- Task 6: White Paper, spring 2024

NEXT STEPS

- Aspect
 - Finalize and send draft memorandum for TAC for review, expected during week of August 7.
- TAC
 - Review draft memorandum within two weeks after it's sent out.
- Next TAC meeting
 - Early 2024, date TBD