

Stormwater Action Monitoring Quarterly Report July 1 through September 30, 2024

SAM accomplishments and key decisions reported for the quarter

- The second new project from Round 4 began. The City of Tacoma, in partnership with Western Washington collaborators, will characterize stormwater and stormwater sediment concentrations for several Contaminants of Emerging Concern (CEC).
- WDFW presented the results of their 2021-2022 Puget Sound nearshore mussel monitoring at the September Stormwater Work Group meeting.

SAM budget for the previous quarter and available for the next quarter

Table 1 shows the SAM budget for each account. Revenue is expected in August each year, except in years where the municipal stormwater permits are reissued when revenue is expected in December. A new revenue cycle will start in August from 2025 thru 2030 for permits issued in 2024. The Stormwater Work Group's Pooled Resources Oversight Committee (PRO-C) approves encumbrances of SAM funds. Encumbrances in excess of projected revenues are due to projects that span multiple years. Indirect charges are applied quarterly to the individual accounts while SAM management staff costs are applied proportional to the size of the fund at the end of each fiscal year.

Reported and projected income and expenditures	Puget Sound status and trends July-Sep 2024	Lower Columbia status and trends July-Sep 2024	Effectiveness studies July-Sep 2024	Source ID projects July-Sep 2024	Total (not including admin Costs) July-Sep 2024
Balance at start of quarter	2,162,118	95,262	5,031,166	21,023	7,309,569
Revenues	91,821	3,849	172,569.00	-	268,239
Expenditures (Contract costs)	237,453	28,968	89,211	-	384,421
Administrative Costs (Ecology's expenses)	9,875	1,837	17,078		28,789
Balance at end of quarter	2,016,486	70,143	5,114,524	21,023	7,222,177
Encumbrances	287,686	94,120	2,287,308	-	2,669,114

Note: Total administrative costs are distributed at 34.3% for Puget Sound, 59.2% for Effective Studies and 6.38% for Lower Columbia as per established 2019-2024 distributions.

SAM contracting activities

All contract scopes of work reviewed and approved by the PRO-C and Ecology are posted online. The following contracting activities occurred this quarter:

- The WSU-led ditches maintenance and replanting plan study was completed and \$118,600.11 were unencumbered and returned to the SAM effectiveness studies account.
- The King County-led mobile business stormwater source control project was completed and \$4,744.94 were unencumber and returned to the SAM source control account. The remaining funds in the source ID projects account were then moved to the SAM effectiveness studies account.
- One new SAM Effectiveness study was fully executed and began this quarter. The City of Tacoma, in partnership with Western Washington Collaborators will characterize stormwater and stormwater sediments for several Contaminants of Emerging Concern (CEC) for an initial cost of \$962,387. Ecology contributed an additional \$261,900.00 with 6PPD Proviso funds.

SAM summary by topic

Communications

Routine deliverable and contracting updates to SAM website.

Receiving water projects

SAM monitors the impacts of stormwater runoff in urban and urbanizing areas in the Western Washington small streams and nearshore environments. There are two active stormwater receiving water monitoring studies in Puget Sound region and one stream monitoring study in Lower Columbia region. Key updates:

- The USGS and Clark County completed their summer sampling campaigns in Puget Sound and Lower Columbia streams. They evaluated and set up new sites for Water Year 2025.
- WDFW presented their 2021-2022 survey of Puget Sound Nearshore Mussel Monitoring to Stormwater Work Group in September. Their final report for the survey is expected to be completed by the end of the year.

Effectiveness studies

SAM studies determine the effectiveness of operational or structural BMPs, maintenance and management actions, and outreach efforts to reduce stormwater runoff and transport of pollutants to receiving waters. There are 6 active effectiveness studies at the end of this quarter (Table 2). Milestones include but are not limited to:

- City of Tacoma began working on the new study characterizing stormwater transport of contaminants of emerging concern. Previously, permittees <u>monitored stormwater</u> from these land uses as required by the Municipal Phase I permit. In this follow up project, Tacoma will coordinate sample collection at 16 sites. Stormwater and stormwater sediment samples will be analyzed for 6PPD-quinone, vehicle-derived constituents, PFAS, tire and road wear particles (TRWP), and microplastics. Additionally, they will analyze for the same chemistry parameters collected from many of the same locations over a decade ago to enhance our understanding of stormwater quality trends. Their first Technical Advisory Committee meeting was held in early October.
- The agreement for a new approved project, Seattle Public Utilities' (FP2) Measuring street sweeping 6PPD-q whole environment load reductions was approved by PRO-C. It is awaiting signature, and work is expected to begin by the end of the year.
- An amendment for the final year of monitoring in the Paired watershed retrofit & restoration study led by City of Redmond was approved by PRO-C. The amendment was signed in early October.

Source Identification Projects

SAM projects on source control and source identification will improve illicit discharge detection and adapt our management solutions for pollutant sources in stormwater runoff. There are no active source control and source identification projects at this time.

SAM contract deliverable activity

Table 2: SAM's contracts, end dates, and deliverable activity.

Receiving water agreements	Deliverables approved Q3 2024	Anticipated deliverables Q4 2024			
Marine mussels – WDFW	Draft Reports for 2020/21, SWG Presentation	Final Reports for 2020/21, Fact sheet for 2020-21			
<u>Puget small streams – USGS,</u> <u>Manchester lab, Rhithron lab</u>	Complete sampling for WY2024	Final 2021, 2022 reports			
Lower Columbia urban streams -Clark County	Semi-annual progress report, Draft and Final Reports for WY 2023; Data Upload to EIM for WY2023	Draft QAPP addendum, WY 2025 site installation complete			
Source ID Contracts	Deliverables approved Q3 2024	Anticipated deliverables Q4 2024			
No active projects					
Effectiveness study contracts	Deliverables approved Q3 2024	Anticipated deliverables Q4 2024			
Paired watershed study – City of <u>Redmond (Sept 2025)</u>	Amendment for final water year of sampling and reporting	WY2023 draft and final report, street sweeping data, Draft Trend analysis report			
Longevity of bioretention toxicity prevention - WSU Puyallup (Nov 2024)	None received	Draft and Final report, 2 nd SWG presentation, draft SAM fact sheet, Project close			
Hydrologic benefits of individual trees <u>- WDNR (Dec 2024)</u>	None expected	Data, Draft and Final Report, SWG presentation, draft SAM fact sheet			
BMP maintenance condition - City of Bellevue (Feb 2025)	Quarterly progress reports	Draft and final pilot data memo, Draft and final white paper, SWG presentation, draft SAM fact sheet			
<u>Hydraulic conditions of old</u> bioretention facilities - City of Olympia (Jul 2023)	Final report, draft fact sheet	Project closed			
Bioretention effectiveness for 6PPD and PFAS – King County (Nov 2025)	None received	TAC member list, semi-annual progress report, QAPP addendum			
<u>Characterization of Stormwater</u> <u>Transport of CECs – City of Tacoma</u> (Dec 2025)	None received	TAC meeting #1, progress report, Existing CEC data database, draft literature review, communication plan & project schedule, Draft & final QAPP, GIS Analysis, Equipment purchases, final literature review			