



Stormwater Action Monitoring Quarterly Report October 1 through December 31, 2023

SAM accomplishments and key decisions reported for the quarter

- The Washington Department of Fish and Wildlife (WDFW) initiated their fifth monitoring survey with SAM by deploying caged mussels at 33 sites.
- SWG issued its [Round 4 funding recommendations](#) for SAM staff to implement and PRO-C to oversee.

SAM budget for the previous quarter and anticipated in the next quarter

Table 1 shows the SAM budget for each account. Revenue is expected in August each year from 2020 thru 2024. The Pooled Resources Oversight Committee (PRO-C) approves encumbrance 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 proportionally at the end of each fiscal year.

Table 1. Quarterly summary of revenues, expenditures, encumbrances, and available funds for each SAM account.

Reported and projected income and expenditures	Puget Sound status and trends Oct-Dec 2023	Lower Columbia status and trends Oct-Dec 2023	Effectiveness studies Oct-Dec 2023	Source ID projects Oct-Dec 2023	Admin Costs (Qtr) Ecology's Oct-Dec expenses
Balance at start of quarter	2,559,649	174,336	6,068,120	29,327	
Revenues	0	0	0	0	
Expenditures	65,448	0	264,510	0	66,528
Balance at end of quarter	2,494,201	174,336	5,803,610	29,327	
Encumbrances	767,110*	98,146*	2,179,562*	13,891	

*These balances for encumbrances do not include obligations for 'inside Ecology' services done by Manchester Environmental Lab and Environmental Assessment Program. A method to better track the encumbrance balance is underway for 2024.

SAM contracting activities

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

- No new or amended contracts in the Oct-Dec timeframe.
- The WSU Orifice Control contract expenditures unencumbered \$1.10 dollars to the Effectiveness studies account.

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 in Puget Sound region and one stream monitoring in Lower Columbia region. Key updates:

- The USGS and Clark County led the collection of samples from Puget Sound and Lower Columbia streams this summer, which are currently being analyzed. Additionally, new sites have been established for Water Year 2024.
- Puget Sound mussel monitoring deployed caged mussels in November.

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. Milestones for several projects include:

- The WSU-led ditch maintenance and replanting plan study final report was reviewed by SAM and Ecology staff. The revised final report is anticipated next quarter and the project will be completed.

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.

- The Mobile Business project is wrapping up the findings of the pilot outreach effort in southern King County. They will finalize that report next quarter.

SAM contract deliverable activity

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

Receiving water agreements	Deliverables approved Q4 2023	Anticipated deliverables Q1 2024
Marine mussels – WDFW	Permits, volunteer groups, and equipment orders, Deploy mussels for 2023/24, Data Upload for 2020/21.	Draft and Final Reports for 2020/21.
Puget small streams – USGS, Manchester lab, Rhithron lab	Quarterly Report.	Data upload for 2022, Final 2020, 2021, 2022 reports.
Lower Columbia urban streams -Clark County	Semi-annual progress report, Equipment installation for WY2024.	Semi-annual progress report.
Source ID Contracts	Deliverables approved Q4 2023	Anticipated deliverables Q1 2024
Mobile business source control – King Co (Dec 2023)	Quarterly report, TAC meeting, draft report on pilot outreach program.	Quarterly report, final report on pilot outreach program.

Effectiveness study contracts	Deliverables approved Q4 2023	Anticipated deliverables Q1 2024
Paired watershed study – City of Redmond (Sept 2025)	WY 2022 draft report (Task E1).	WY 2022 final report (Task E1), and WY 2023 data complete (Task E2)
Longevity of bioretention toxicity prevention - WSU Puyallup (Nov 2024)	None expected.	Progress report 6, draft report with lab data results for WYs 6-12.
Hydrologic benefits of individual trees - WDNR (Aug 2024)	None received.	Bi-annual report.
Improving ditches and maintenance - WSU Puyallup (Sep 2024)	Draft plant findings report	Progress report, final plant findings report
BMP maintenance condition - City of Bellevue (Apr 2024)	Progress reports, draft and final lit memo on O&M combined with Ecology interview and responses.	Final tech memo on published findings (3B +4C). Draft on pilot data - task 5, draft task 6
Hydraulic conditions of old bioretention facilities - City of Olympia (Jul 2023)	Progress reports	Technical memos, Ecology interviews, and Final report.