



Stormwater Action Monitoring Quarterly Report April 1 through June 30, 2021 - *revised*

SAM accomplishments and key decisions reported for the quarter

- US Navy is now contributing funding annually to both SAM’s funding accounts
- Updated contract for bioretention longevity to be led by Washington State University – Puyallup

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

Table 1 shows the SAM budget for each account for the whole program. Revenue for 2020 is expected in August, and each year 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. Projected expenditures for the next quarter are based on anticipated approved deliverables and invoices and an estimate of Ecology’s expenses. 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		Lower Columbia status and trends		Effectiveness studies and Source ID		Source ID only		Admin Costs (Qtr)
	Apr-Jun 2021	Jul-Sept 2021 (anticipated)	Apr-Jun 2021	Jul-Sept 2021 (anticipated)	Apr-Jun 2021	Jul-Sept 2021 (anticipated)	Apr-Jun 2021	Jul-Sept 2021 (anticipated)	Ecology’s Apr-Jun expenses
Balance at start of quarter	\$1,910,834	\$2,115,035	\$55,926	\$3,970	\$3,853,759	\$4,477,507	\$318,037	\$303,631	
Revenues	\$592,612	\$160,515	\$25,885	\$110,582	\$1,012,159	\$430,896	\$0	\$0	
Expenditures	\$388,410	\$108,044	\$51,956	\$0	\$388,410	\$47,132	\$14,406	\$0	\$57,746
Balance at end of quarter	\$2,115,035	\$2,167,506	\$29,855 ^A	\$114,552	\$4,477,507	\$4,861,272	\$303,631	\$303,631	
Encumbrances	\$1,430,422 ^B	\$1,936,207 ^B	\$337,181	\$337,181	\$1,169,351 ^C	\$1,619,623 ^C	\$275,171	\$491,590*	

^A Correction: Revenue received in the Lower Columbia status and trends is now added into the balance.

^B Correction: the USGS contract in late 2020 was closed yet a late expenditure of \$10,000 was billed to Ecology incurring a double reduction for the encumbrance total line. Adding 10K corrects the encumbrance total line.

[†] Correction: two contracts that closed this quarter with unspent funds are now unencumbered from the encumbrance total; USFWS Longevity of bioretention (\$197,126.95) and KC Oyster shell retrofits (\$58,675.32).

*The source identification account is being spent down and closed. Per PRO-C decision, the mobile business contract that will likely be encumbered in Q3 would over-encumber this account therefore the encumbrance will be used to zero the source ID account and the remainder paid from the combined Effectiveness and Source ID account.

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:

- Signed new or amended in Apr-Jun
 - WSU-P is now the lead for the second phase of bioretention toxicity longevity study.
- Closed contracts Apr-Jun

- King Co - Spill hotline feasibility study.
- AWC - SAM Communications.
- King Co - Oyster shell retrofit project.

SAM summary by topic

Communications project

The Association of Washington Cities assistance with SAM communication ended in April. Their professional assistance lead to the SAM name, logo, and templates for fact sheets and presentations; four videos; the bioretention storymap; 23 fact sheets, 8 newsletters, and the SAM booklet compilation of the studies conducted during the first permit term of SAM's existence.

Receiving water projects

SAM monitors the impacts of stormwater runoff in urban and urbanizing areas in the Puget Sound small streams and nearshore environments. USGS and Clark County have summer 2021 stream sampling underway. This is the first sampling for the Lower Columbia Urban Streams (LCUS) long term study. SAM staff have secured by MOU Ecology staff to assist with EIM updates for the streams projects.

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. The Bioretention longevity contract switched lead agencies (from USFWS to WSU-Puyallup) and was amended to extend the performance period to March 31, 2022 with \$15,000 budget increase for change of toxicity test method. Several SAM projects were presented at MuniCon.

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. Contract development is underway for two new Source ID projects; King County's mobile business source control and WSU-Puyallup business inspection program.

SAM contract deliverable activity

Project activities, contracting actions and meetings are summarized under each SAM category in this section.

Receiving water agreements	Deliverables approved Q2 2021	Anticipated deliverables Q3 2021
Marine mussels – WDFW		Newly signed contract for full Puget Sound study frame sampling
Marine mussels (old design) – WDFW	None received	Chemical analysis invoices, QA-QC'ed chemistry data
Puget small streams – USGS, Manchester lab, Rhithron lab	Final site list	Email confirmation for data recording and equipment maintenance
Lower Columbia urban streams- Clark County	Continuous data upload confirmation	Semi-annual progress report
Source ID Contracts	Deliverables approved Q2 2021	Anticipated deliverables Q3 2021
Improving business source control programs – WSU-Puyallup	Quarterly report	Communications Plan
Mobile business source control – King Co	Not yet signed	None expected
Effectiveness study contracts	Deliverables approved Q2 2021	Anticipated deliverables Q3 2021
Paired watershed study – Redmond	Presentations at SWG and MuniCon.	Water year (WY) 2020 draft report and all associated data
Longevity of bioretention toxicity prevention – WSU Puyallup	Newly signed contract for phase 2 with WSU	Progress report 3
Hydrologic benefits of individual trees - WDNR	None received	Quarterly report 10, 11
Mulch choices for bioretention - WSU Puyallup	None expected	None expected
Orifice control for bioretention - WSU Puyallup	Table of equipment purchases, Installation and startup report	Progress reports 1
Evaluating stormwater education and outreach program - WSU	None received	Project schedule, progress report, and draft interview questions and contacts
Improving ditches and maintenance – WSU-Puyallup	Newly signed	Draft QAPP