



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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April 22, 2015

TO: Ben Parrish, Chair, Pooled Resources Oversight Committee

CC: Pooled Resources Oversight Committee Members, Alternates, and Interested Parties

THROUGH  Bill Moore, Water Quality Program Development Services Section Manger

FROM: Brandi Lubliner, Regional Stormwater Monitoring Program Coordinator

**SUBJECT: Regional Stormwater Monitoring Program Quarterly Report
for January 1, 2015 through March 31, 2015**

The Regional Stormwater Monitoring Program (RSMP) is funded by municipal stormwater permittees and administered by the Washington State Department of Ecology (Ecology) under the direction of the Pooled Resources Oversight Committee (PRO-Committee) and the Stormwater Work Group (SWG). More information about the RSMP is available at <http://www.ecy.wa.gov/programs/wq/stormwater/municipal/rsmp.html>.

Ecology delivers quarterly reports on RSMP implementation to the PRO-Committee. The PRO-Committee briefs the SWG and requests direction as needed to clarify priorities and goals.

Attached please find Ecology's fourth quarterly report as the RSMP administrator, for the period from January 1, 2015 through March 31, 2015. Please contact RSMP Coordinator Brandi Lubliner at brandi.lubliner@ecy.wa.gov or (360) 407-7140 for more information.

Attachment (3pp.)



Regional Stormwater Monitoring Program Quarterly Report

For January 1 through March 31, 2015

RSMP accomplishments and key decisions reported for the quarter

- Stream monitoring for monthly water quality began in January 2015 and will go thru December 2015 at 60 sites.
 - First quarter data deliverables are arriving to RSMP Coordinator.
- Agreements for four effectiveness studies were officially signed and completed. The scope of work for one more effectiveness study was finalized and for another effectiveness study is being revised.
- Scope of work for illicit discharge information compilation, evaluation, and analysis was finalized.
- Nearshore mussel monitoring agreement was scoped out and nearly finalized.
- The Pooled Resources Oversight Committee agreed to a process for review and approval of RSMP deliverables.
- All RSMP deliverables received and approved by Ecology are posted at the RSMP website
<http://www.ecy.wa.gov/programs/wq/stormwater/municipal/rsmp/rsmp.html>

RSMP budget for the previous quarter and anticipated for the coming quarter

Table 1 shows detail for each RSMP component and for the whole program. Encumbrances in excess of projected revenues will be for projects spanning multiple years. The 2015 streams sampling will be paid partly before August 2015 permittees' payments are due and partly (mostly) after, and effectiveness studies span multiple years. Ecology's program administration expenses are limited to 5% of the total RSMP revenue and are not separately accounted for by the three RSMP components. The total balance and anticipated expenditures for the coming quarter include Ecology's administrative expenses.

Table 1. Summary of revenues, expenditures, encumbrances, and available funds for each RSMP component

Reported and projected income and expenditures	Status and trends (4-year project total: \$3,638,710)		Effectiveness studies (4-year project total: \$6,299,238)		SIDIR (4-year project total: \$677,250)		RSMP total (4-year project total: \$10,615,198)		
	Jan-Mar 2015	Apr-Jun 2015 (anticipated)	Jan-Mar 2015	Apr-Jun 2015 (anticipated)	Jan-Mar 2015	Apr-Jun 2015 (anticipated)	Ecology's Jan-Mar administration expenses	Jan-Mar 2015	Apr-Jun 2015 (anticipated)
Balance at start of quarter	\$926,269	\$873,406	\$1,574,808	\$1,518,215	\$169,314	\$169,314	-	\$2,670,391	\$2,496,556
Revenues	\$0	\$0	\$0	\$0	\$0	\$0	-	\$0	\$0
Expenditures	\$86,956	\$515,010	\$56,593	\$200,474	\$0	\$30,000	\$15,464	\$159,013	\$765,484
Balance at end of quarter	\$873,406	\$358,396	\$1,518,215	\$1,317,741	\$169,314	\$139,314	-	\$2,496,556	\$1,731,072
Encumbrances	\$1,891,195	\$1,646,121	\$1,917,323	\$2,179,375	\$0	\$107,255	-	\$1,891,195	\$3,932,751

RSMP Activities

Status and Trends Monitoring

The RSMP Coordinator is managing the small streams monitoring and data management. Implementation planning for the nearshore monitoring components was started this quarter for marine mussels.

Small streams water quality and watershed health

Agreements with U.S. Geological Survey (USGS), King and Skagit Counties, and San Juan Island Conservation District to conduct field work were signed at the start of this quarter. The agreement with King County includes laboratory

analyses. All four agreements cover site suitability, attending coordination phone calls, and monthly sampling at 60 sites January-December 2015. The first inter-laboratory comparison between King County and Ecology's laboratories was completed; and all results are comparable. Summer watershed health sampling will be done by King County and USGS only. Training will be held in the next quarter to prepare for the summer sampling at between 92 and 100 sites; 8 sites could not be sampled so more locations need to be visited, evaluated, and confirmed. The RSMP Coordinator is compiling material for a Quality Assurance Project Plan (QAPP) addendum to govern the analysis, interpretation, and reporting of the data.

Marine mussel contaminant monitoring

The agreement with Washington State Department of Fish and Wildlife (WDFW) was nearly finalized this quarter. Management of the monitoring and data analysis will be lead by WDFW. The final IAA and the QAPP for nearshore mussel monitoring is expected in the coming quarter.

Marine nearshore sediment chemistry

Work on the QAPP for this monitoring is expected to begin in the coming quarter.

Nearshore bacteria

No activity to report.

Effectiveness Studies

Agreements for four effectiveness studies (see *RSMP contracts and agreements*, below) were signed at the start of the quarter. Agreements with the Cities of Lakewood and Bellingham for two more studies are expected to be completed in the coming quarter; the Lakewood agreement is being finalized for signatures and the scope of work for Bellingham is still under development. Contracting processes for additional Stormwater Work Group (SWG) approved effectiveness studies are expected to commence in the coming quarter.

Source Identification Information Repository (SIDIR)

The scope of work to compile data submitted by permittees was developed per input from the SWG's SIDIR subgroup and reviewed by the PRO-Committee. This is a separately funded task in the agreement with the City of Lakewood.

RSMP contracts and agreements

Eight interagency agreements were finalized in the previous quarter with the following partners:

- Streams monitoring agreements include 4 IAAs with USGS, King and Skagit Counties, and San Juan Island Conservation District total \$1,107,386 to conduct monitoring. Due to site changes two agreements are subsequently being modified to \$1,115,042 this next quarter to account for increased costs for site replacements and per-site costs. The agreement with King County includes analysis by the lab on the samples collected by the King County crew. Stream agreements were also developed with the following labs for sample analysis, and these costs are estimated to be \$507,868 for the year:
 - Manchester Environmental Lab for water and sediment chemistry,
 - Clallam County and Edge Analytical Inc. as qualified bacteria laboratories, and
 - Rhithron Associates Inc. for macroinvertebrate taxonomic services.
- U.S. Fish and Wildlife Service (USFWS) for biofiltration toxicity reduction effectiveness study, for \$149,105.
- King County for Echo Lake highway retrofit effectiveness study for \$584,024; this was later revised with a reduction in scope to \$469,586.
- King County Hylebos Creek bioretention pond effectiveness study, for \$1,087,431; the timing of the monitoring was revised in the agreement.
- City of Redmond for a paired basin retrofit effectiveness study design approach, for \$96,760.

In the coming quarter Ecology expects to complete agreements with:

- City of Lakewood agreement that has two aspects:
 - A business inspection source control effectiveness study, for \$176,682, and

- A separate task to compile and analysis of permittee-submitted illicit discharge data, for \$30,030 with an optional task (requiring approval prior to commencement) for \$77,226. This task will be funded from the Source Identification Information Repository (SIDIR) funds.
- City of Bellingham bioretention hydrologic performance study, for \$467,186. The budget and scope for this study are being updated. Phase 1 of the project (site selection and QAPP development) is expected to cost \$87,234.
- WDFW for nearshore mussel contaminant monitoring for \$263,187.

RSMP deliverables received in the previous quarter

Deliverables were received on the USFWS and Redmond effectiveness studies; and for USGS, King and Skagit Counties, and San Juan Island Conservation District stream monitoring field work.

<http://www.ecy.wa.gov/programs/wq/stormwater/municipal/rsmp/rsmp.html>

Status and Trends

- First quarter field and lab data deliverables for streams monitoring
- Small stream site suitability confirmation

Effectiveness Studies

- Interim results from the USFWS toxicity study
- Literature review for the paired watershed study

RSMP deliverables expected in the coming quarter

In the coming quarter, we anticipate a larger number of deliverables for all three RSMP elements.

Status and Trends

- First and second quarter field and lab data deliverables for streams monitoring
- QAPP for mussel monitoring

Effectiveness Studies

- Experimental design and draft QAPP for the paired watershed study
- Water quality results and a preliminary presentation in the USFWS toxicity study
- QAPPs for both King County BMP retrofit studies
- Technical advisory committee set up, and study design for the Lakewood business source control study
- Technical advisory committee set up for the Bellingham LID hydrologic performance study

SIDIR

- Preliminary data compilation of SIDIR information collected reported by stormwater permittees to Ecology.

RSMP issues that need to be resolved and/or for which stakeholder input is desired

No issues were identified this quarter.