



Draft Agenda

Wednesday, June 7, 2017 from 9:00 a.m. to 12:00 p.m.
in the Columbia Room on the 3rd floor of the USGS office at 934 Broadway, Tacoma WA 98402

THE MEETING'S GOALS:

1. Discuss workshop feedback and voting results on RSMP/SAM* effectiveness study second round proposals, and decide what studies will be funded with the remaining S8.C funds;
2. Hear about findings of the RSMP/SAM marine nearshore mussel contaminant monitoring and discuss plans for the second round of this monitoring;
3. Hear and discuss proposals for future RSMP/SAM Source ID projects;
4. Discuss next steps for RSMP/SAM marine nearshore bacteria data collection and analysis;
5. Hear more updates on RSMP/SAM implementation and administration from the PRO-Committee;
6. Hear an update on the strategy and actions for communicating RSMP/SAM findings to key audiences;
7. Decide on messages and timing for the next SWG Reporter;
8. Hear from our subgroups about other progress toward implementing our work plan for 2017-2018;
9. Hear other updates related to our work.

* *The regional stormwater monitoring program funded by the municipal stormwater permittees is now called "Stormwater Action Monitoring" (SAM). Today's meeting is the last time both old and new names will be used.*

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9:00 Welcome, introductions, and review of the meeting's agenda and goals

- *Quick debrief on the first RSMP/SAM findings symposium that was held June 1.*
- *Confirm members of the Pooled Resources Oversight Committee (PRO-C) for a two-year term.*

9:15 Discuss RSMP/SAM effectiveness study workshop and permittee voting; decide on studies to conduct

- *Following review and scoring by the RSMP/SAM Coordinator, Ecology engineers, and the SWG Effectiveness Studies Subgroup, eight full proposals for the second round were presented at a workshop on April 11. Following the workshop, 51 permittees voted for 3 projects each. The resulting rankings were shared by email and discussed by the SWG caucuses.*
- *Today the work group will decide which projects to fund based on the voting and feedback from the caucus discussions. A draft set of recommendations was sent out with the agenda; it is a starting point for this decision.*
- *There are \$1.1M in remaining S8.C funds in this permit cycle. One or two more studies can begin this fall. More could begin in fall 2018. The work group can decide how much of future permittees' S8.C contributions (2018 and beyond) should be allocated for this second round of studies.*
- *The SWG Effectiveness Studies Subgroup will continue to meet to discuss recommendations for priority questions for the next permit cycle. The subgroup will also recommend whether and when to update the literature review and white papers that informed the current set of priority topics and questions.*
- *Do work group members have any comments, questions, or concerns? Do work group members wish to give further direction to our Effectiveness Studies Subgroup, the RSMP/SAM Coordinator, or the PRO-C?*
- *Are there any comments from non-work group members?*

10:00 Discuss findings and recommendations for RSMP/SAM mussel monitoring

- *The first round RSMP/SAM mussel monitoring took place in winter 2015-2016.*
- *Jennifer Lankbury of WDFW led the project and has completed a draft report which includes recommendations for stormwater-focused trends monitoring.*



STORMWATER WORK GROUP

<http://www.ecy.wa.gov/programs/wq/psmonitoring/swworkgroup.html>

- *A second round of monitoring will take place this winter. Jennifer discussed her recommendations with the Toxics Workgroup at its meeting in April. Contracting and QAPP writing for this second round are underway.*
- *Do work group members have any comments or questions? Do we have any feedback for Jennifer, the Toxics Workgroup, or other SWG subgroups based on these findings and recommendations?*
- *Are there any comments from non-work group members?*

10:25 Break

10:40 Hear and discuss proposals for future RSMP/SAM Source Identification work

- *The SWG Source Identification Subgroup met in March and discussed several projects that could be conducted with S8.D funds this permit cycle. We will hear about some of those projects today.*
 - *The City of Seattle is proposing a business inspection source control study from the business perspective to complement the current RSMP/SAM effectiveness study from the permittee perspective.*
 - *King County is proposing updates to the outfall screening manual; and a regional hotline.*
- *Do work group members have any questions about the proposals and recommendations? Do work group members wish to provide further direction for the project proponents or the subgroup? What additional information do we need in order to make a decision about these projects at our next meeting in September?*
- *Are there any comments from non-work group members?*

11:10 Discuss next steps for RSMP/SAM marine nearshore bacteria work

- *Debby Sargent presented her findings to the work group last fall and gave a brief summary at the SAM findings symposium on June 1.*
- *The final technical memo summarizing the extent of data and findings of the preliminary assessment has been completed and is posted at <https://fortress.wa.gov/ecy/publications/SummaryPages/1703004.html>. The memo includes several monitoring recommendations.*
- *What are work group members' ideas for future RSMP/SAM work? For work possibly funded by others? Some questions for the work group to discuss:*
 - *What further analysis is needed on the data that was compiled for this project?*
 - *Do we need a SAM marine bacteria program?*
 - *How secure is the EPA-funded BEACH program?*
 - *Can we reconnect with the WDOH shellfish program?*
- *What additional information do we need in order to make a decision about these projects at our next meeting?*
- *Are there any comments from non-work group members?*

11:30 Briefing and updates by the PRO-C Chair and RSMP/SAM Coordinator on RSMP/SAM implementation

- *The 2016 RSMP Annual Report was published in May. Both the Annual Report and the new "About SAM" fact sheet were printed and mailed with permittees' invoices for August payments.*
- *The PRO-C last met on May 3.*
 - *The latest quarterly report includes tables with project updates instead of the separate narrative sections used in the prior reports. The PRO-C likes this new format.*
 - *The PRO-C recommends that Ecology hire a full second FTE for program management work, funded by RSMP/SAM. There is more than ample contingency remaining in the budget.*
 - *The prior SWG recommendation was to allot 7% of the total combined RSMP/SAM budget; a specific FTE count is easier for budgeting. Does the SWG agree with hiring this second FTE?*
- *Other updates on RSMP implementation, contracting, and budget items:*
 - *Status and trends: Sediment and stream reports are expected this fall.*
 - *First round effectiveness studies:*
 - *The Federal Way (Hylebos) project was able to sample an exceptionally large number of storms in the beginning of this calendar year. Monitoring has ended due to road construction.*
 - *Source identification: Lakewood's 2014 IDDE data compilation and analysis project was completed.*



STORMWATER WORK GROUP

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- *Do work group members have any questions? Do work group members wish to provide further direction to the PRO-C and RSMP Coordinator?*
- *Are there any comments from non-work group members?*

11:40 Update RSMP/SAM communication strategy and activities

- *We have three new listservs and a resource mailbox for RSMP/SAM information. Here are the links to sign up for the listservs, and the email address for requests for general information about SAM:*
 - [Sign up for the Stormwater Action Monitoring newsletter](#)
 - [Sign up for the Stormwater Work Group Reporter](#)
 - [Sign up for Stormwater Work Group agendas and meeting notes](#)
 - SAMinfo@ecy.wa.gov
- *External messaging since our last work group meeting has focused on the April 11 effectiveness studies selection workshop and the June 1 RSMP/SAM findings symposium. Possible topics for the next SWG Reporter include:*
 - *Second round effectiveness studies selected*
 - *Recommendations for future streams trends monitoring under consideration*
 - *Mussel contamination monitoring results coming soon*
 - *Marine nearshore sediment monitoring data analysis is underway*
 - *Stream trends monitoring recommendations coming this fall*
 - *Future source identification projects under consideration*
 - *Congratulations to our new SWG Chair and Vice Chair*
- *The Association of Washington Cities staff developed icons to identify receiving water, effectiveness, and source identification studies. They will be working on fact sheets and a video this summer.*
- *Ecology's webpage is undergoing a major revision and will launch this summer. Links that you currently have bookmarked will no longer work. We are working on identifying another means of archiving work group and subgroup meeting agendas and notes.*

11:45 Other work plan implementation and updates

- *Our subgroups continue to make progress toward achieving the goals established in our 2017-18 work plan. We have touched on most of the work plan topics in prior agenda items. Do other subgroup chairs or members, or project team leads or members, have additional updates to share?*
- *Do work group members wish to provide additional direction for our subgroups?*
- *Are there any comments from non-work group members?*

11:50 PSEMP and Action Agenda/Implementation Strategy coordination

- *What are the PSEMP steering committee and other PSEMP workgroups discussing, and what are our related plans, needs and interests?*
 - *Scott Powell stepped down as the steering committee chair*
 - *Toxics synthesis report is out*
 - *Next PSEMP staff meeting is June 29*
- *What is the next opportunity for work group members to provide input into developing the implementation strategies for B-IBI and Toxics in Fish vital sign indicator targets?*

11:55 Recap of today's meeting and hear other updates or announcements

- *Summarize decisions, action items, and next steps from today's meeting.*

12:00 Adjourn



STORMWATER WORK GROUP

<http://www.ecy.wa.gov/programs/wq/psmonitoring/swworkgroup.html>

NEXT SCHEDULED MEETING:

Wednesday, September 13, 2017 from 9am to 12pm at the USGS Office in Tacoma, with possible extended hours as needed. Expected agenda topics include:

- *Discuss recommendations for SAM future stream trends monitoring;*
- *Hear initial findings of the SAM sediment monitoring;*
- *Hear about changes to Ecology's marine sediment chemistry sampling program;*
- *Discuss overall commonalities in recommendations for all future SAM trends monitoring components;*
- *Hear updates on SAM implementation, administration, and communication of findings;*
- *Hear from our subgroups about progress implementing our work plan for 2017-2018;*
- *Decide on messages and timing for the next SWG Reporter; and*
- *Hear other updates related to our work.*

The meeting schedule for the remainder of 2017 is: September 13, and November 15.

DIRECTIONS TO THE USGS OFFICE IN DOWNTOWN TACOMA

A map is available at <http://wa.water.usgs.gov/directions.html>

Public transportation: Take express buses from Olympia or Seattle to the last stop at 10th and Commerce in downtown Tacoma. Walk up the ramp in the middle of the block on Commerce (to the left of the Pierce Transit bus shop and along the fountains) to Broadway Plaza and across the street to at 934 Broadway. [If your express bus drops you at the Tacoma Dome Station, take the Link train to the last stop, walk back on Commerce to 9th and up the hill to Broadway. Turn left and walk to 934 Broadway.] The entrance to the USGS office is via elevator at the end of the lobby on the right. Go to the 3rd floor and sign in with the receptionist.

Driving directions and parking options: Street parking is limited to 2 hours, so you will need to find a pay parking lot. Northbound or Southbound on I-5, take exit 133 City Center to I-705 and exit A Street. Turn left on S 11th Street and go uphill to Market Street, up the hill past Broadway where the office is located. Turn right on Market Street. The entrance to the Rhodes Center's parking garage is on your left under the skybridge. Park on the upper floors for \$1.50/hour (up to \$8/day); clearly marked State vehicles park for free. Cross the skybridge to the Market Building of the Rhodes Center. Walk through the Market Building and across another skybridge to the Broadway Building. There is a bank of elevators near the atrium on the left. Take the elevator to the first floor, exit the building to Broadway, and walk a few doors to the left to 934 Broadway. The entrance to the USGS office is via elevator at the end of the lobby on the right. Go to the 3rd floor and sign in with the receptionist.



WEDNESDAY, JUNE 7, 2017, FROM 9:05 AM TO 12:15 PM
USGS OFFICE, 934 BROADWAY, TACOMA WA 98402



Draft Summary

OF THE MEETING'S KEY DISCUSSIONS, DECISIONS AND AGREEMENTS

a list of acronyms is provided at the end of the document

ATTENDEES:

Work Group members and alternates present, and the organizations and caucuses they represent:

Abby Barnes (WDNR), State Agencies, and the Work Group's Vice Chair; **Fred Bergdolt** (WSDOT), State Agencies; **Kevin Burrell** (Seattle), Local Governments; **Jay Davis** (USFWS), Federal Agencies; **Dana de Leon** (Tacoma), Local Governments, and the Work Group's Chair; **Leska Fore** (PSP), State Agencies; **Chris Konrad** (USGS), Federal Agencies; **Jennifer Lanksbury** (WDFW), State Agencies; **Don McQuilliams** (Bellevue), Local Governments; **Bill Moore** (ECY WQP), State Agencies; **Kit Paulsen** (Bellevue), Local Governments; **Ben Parrish** (Covington), Local Governments; **Nancy Rapin** (Muckleshoot Fisheries), Tribes; **Jim Simmonds** (King Co), Local Governments.

Others in attendance: **Jeanne Dorn** (King Co), **Rebecca Dugopolski** (Herrera), **Doug Navetski** (King Co), **James Packman** (Aspect Consulting), **Brandon Slone** (WSDOT).

Work Group staff: **Karen Dinicola** (ECY WQP), SWG Project Manager; and **Brandi Lubliner** (ECY WQP), SAM Coordinator, **Amelia Min-Venditti** (ECY WQP), the SAM Coordinator's part-time assistant.

RSMP IS NOW SAM

Today's meeting was the last time we will use the RSMP name for the regional stormwater monitoring effort funded primarily by municipal stormwater permittees. It is now known as Stormwater Action Monitoring (SAM).

WORK GROUP DECIDES ON SECOND ROUND SAM EFFECTIVENESS STUDIES

Work group members discussed draft recommendations coming out of the collective agreements of the PRO-Committee, SWG Effectiveness Subgroup, and SWG local, state, and federal caucuses. Work group members **agreed** on the following set of recommendations to forward to Ecology and the SAM Coordinator:

1. Enter into a contract to conduct FP03 *Bioretention soil media final phase* (\$382K) as soon as possible.
2. As first round projects wrap up later this year and in 2018 and contract management capacity is available, work with project proponents to respond to comments and concerns on scope and approach as needed and then enter into contracts to conduct the following projects:
 - a. FP05 *Bioretention hydrology performance phase II* (\$478K): This project is ready to go as soon as the project team has capacity to begin the next phase.
 - b. FP01 *Longevity of bioretention for biological effectiveness* (\$315K): This project proposal has responded to comments and is undergoing a second technical review.
 - c. FP04 *Oyster shell retrofits* (\$325K): As proposed, this is a pilot project.
 - d. FP07 *Mulch choices for bioretention* (\$198K): This project will add an additional mulch type to the study.
3. Inform the proponents of the following proposals that the SWG is requesting they convene Technical Advisory Committees to address concerns about the projects' approaches and to refine the proposals. These projects are slated for funding as part of this round but will need to be reviewed again by Ecology's engineers and members of the SWG Effectiveness Subgroup and then re-confirmed by the SWG prior to contracting.
 - a. FP02 *Effectiveness of trees in mitigating runoff* (\$291K): In particular, can alternate sites be identified with preferred tree species?

- b. FP09 *Hydraulic control options for bioretention* (\$309K): In particular, define specific field study and modeling components of the study that address concerns about (1) using bioretention as a flow control BMP and (2) whether it is worth investigating smaller orifice sizes that are likely to plug.
- 4. Inform the project proponent of FP08 *Monitoring the stormwater treatment prototype at Manchester Beach* (\$178K) that their project is not funded as part of this round.
 - a. Per the recommendations of the SWG local government caucus, should consider finding additional regional facilities, particularly those designed under the source control transfer option in the Stormwater Management Manual for Western Washington, for inclusion in a resubmitted proposal for a future round of funding.

The SWG chair will send a formal letter to Ecology including these recommendations. At a future work group meeting, we will hear about progress on the two projects listed in #3 above, knowing that these projects' budgets could increase. These recommendations commit the \$1.1M remaining in this permit cycle and a portion of the permittees' 2018 contributions. In the next permit cycle, we want to ensure funds are available for: continued work on the Redmond paired watershed study, an update to the literature review, and perhaps a scientific peer review of the overall program.

WORK GROUP AGREES THAT ECOLOGY SHOULD HIRE A SECOND FTE TO HELP THE SAM COORDINATOR

The PRO-C has discussed, in detail, Ecology's total ongoing administrative and project management work load dedicated to successfully supporting and implementing SAM. The work group previously agreed that the overhead charges should increase to 7% from the 5% for the next permit cycle. Many SAM projects require substantial management beyond simple contracting actions. Ecology requested, and the PRO-C agreed, that a full second FTE should be hired to assist SAM Coordinator Brandi Lubliner. For budgeting purposes, two FTEs are easier to track and plan for than a set percentage of the budget. This is an appropriately conservative number of personnel for implementing this \$2.5M/year multi-project program. Ecology has been piecing together the additional support Brandi needs, but it will be more efficient to consolidate these tasks into a single staff person. Work group members **agreed** that Ecology should hire this new person over the summer.

WORK GROUP DISCUSSES FINDINGS AND RECOMMENDATIONS FROM SAM MUSSEL MONITORING

Jennifer Lanksbury of WDFW has presented the SAM mussel contaminant monitoring findings at the PSEMP Toxics Workgroup, the Washington Hydrogeology Symposium's special stormwater session, and the SAM Findings Symposium. Her draft report has just been reviewed and approved, and the final report is due later this summer. Today we focused our discussion on providing feedback on Jennifer's recommendations for future trends monitoring (attached to the agenda for this meeting).

Work group members advised Jennifer not to pursue a BPJ targeted approach to SAM site selection; the probabilistic approach is preferred. We want to see the regional roll-up.

For metals, copper and zinc tell a more compelling stormwater story than the others (particularly mercury) so it is not a problem for future monitoring to focus on those two metals. For CEC's, the work group is interested in seeing the Toxic Workgroup's findings about stormwater-source chemicals; endocrine disruptors in particular are more likely POTW sources than stormwater sources. If DDT analytes are part of the same laboratory schedule as other organics then it makes sense to continue to include them.

For strata, the upper and lower proposed categories of percent impervious surface could change based on further review, particularly as more conversations take place among the scientists involved in the SAM nearshore sediment and lowland streams S&T components. Ideally, all of our SAM S&T components will have similarly defined strata for trends monitoring.

For this coming winter, the second round SAM mussel monitoring will repeat what was done in 2015-2016: the same SAM sites and parameter list, plus any additional sites and/or analyses funded by leveraging partners. The 2019-2020 sampling will likely implement new strata to be defined in the overall S&T recommendations expected sometime next year. At that point decisions will also be made about changing the analyte list.

Karen Dinicola will convene a SWG Work Plan Subgroup discussion over the summer to develop a proposed timeline and process for making these overall recommendations. The plan will articulate how the key decision points align with the permit reissuance timeline.

Work group members encouraged continued highlighting of partners' leveraging the permittee funded SAM efforts. WDFW's SAM mussel monitoring project is a great example of this by (1) using volunteers and volunteer groups to deploy and process the mussels; (2) adding 33 sites sponsored by other entities located around Puget Sound; (3) WDFW paid for analysis of 5 SAM samples for CEC's; and (4) a UPS student is analyzing mussel tissue at all of the sites for microplastics. We will hear findings of those leveraging efforts later this year; they might be published as appendices to the final SAM mussel monitoring report.

WORK GROUP HEARS THREE NEW PROJECT PROPOSALS FOR SOURCE IDENTIFICATION

The SWG Source ID Subgroup has discussed many possible projects that might be done using SAM funds and could improve permittees' Source ID and IDDE programs. The work group heard and discussed three proposals today, all of which could potentially be funded with the remaining ~\$500K S8.D funds for this permit cycle. Projects selected for funding will be determined at our September meeting. All of these projects will include Fact Sheets and presentations of their findings at a work group meeting in their updated proposals.

Kevin Burrell of Seattle presented a \$100K proposal to conduct a source control inspection evaluation; he presented on behalf of Doug Hutchinson of Seattle and Dana de Leon of Tacoma. The proposal is to survey >300 businesses in Seattle, Tacoma, and other partnering jurisdictions to determine how long source control BMPs are implemented following a site visit and therefore how frequently inspections should occur. Seattle would provide information to Phase I and II permittees on tools and techniques that can be used to maintain compliance and help focus the permittee's resources.

Jeanne Dorn of King County presented a \$179K proposal to update the illicit discharge field screening manual compiled by Herrera in 2013. The manual is widely used, and the proposal is to survey permittees to find out what is working well and what needs improving. The literature review that went through 2011 will be updated, and new methods added to the manual. The analysis of permittees' 2014 IDDE data will inform the prioritization of new methods. Following the updates, 4-hour hands-on trainings will be conducted in 8 locations to be determined.

Doug Navetski of King County presented a \$176K proposal to conduct a feasibility study for a 24-hour regional spill reporting hotline. The current permit requires each permittee to have their own hotline number; Ecology has the ERTS number, and 911 also gets calls. Citizens generally do not know who to call to report an environmental problem. This proposal is to keep the local jurisdiction numbers and explore adding a "411-type" number with 24-hour staffing to improve timely response to spills. The proposal also includes a social marketing campaign, app for smart phone use, and description of the database needed for record keeping and reporting. The proposal would identify the appropriate geographic scale (i.e., Puget Sound, statewide, or other) and an appropriate host; it would stop short of implementation; a stable long-term funding sources is needed. The feasibility study should build a strong business case for changing to a new system, including quantifying costs and shortcomings of the current approach to reporting and referral.

WORK GROUP MAKES SUGGESTIONS TO IMPROVE FUTURE SAM SYMPOSIA

The first SAM Findings Symposium was held June 1. Every SAM project was showcased. In the future, only projects with significant findings will give presentations, and substantially more time will be allotted for questions. It would be ideal to coordinate with MuniCon in the years that conference is hosted in Western Washington. "Half-opt-out" permittees should also be given an opportunity to share their effectiveness study findings. A webex attendance option will be explored. All SAM projects need to strive to better explain how to apply their findings.

WORK GROUP CONFIRMS NEW PRO-C MEMBERS

The PRO-C had its first meeting in February 2014 with members confirmed for a 2-year term. Most members and alternates are staying on for another term. Kevin Burrell of Seattle was confirmed as a permittee representative and Don McQuilliams of Bellevue was confirmed as a permittee alternate. Work group members thanked outgoing member Kelly Uhacz of Battle Ground for his outstanding participation since the launch of the committee. "Other stakeholder" alternates Tom Putnam and Katelyn Kinn, both of Puget Soundkeeper Alliance, stepped down, and the environmental caucus is investigating whether to name a new representative on this committee. In order to maintain a full slate of confirmed participants for this important committee, Rich Sheibley of USGS and Kelly McLain of WSDA were confirmed as new alternate members.

AGENDA TOPICS NOT COVERED

Due to time devoted to effectiveness study decisions and discussion of Source ID project proposals, we did not cover everything on our agenda today. Future steps for SAM nearshore bacteria monitoring will be discussed at our next meeting in September. We will schedule PRO-C/SAM Coordinator updates earlier in the next meeting to ensure we have time for those important topics, and we will protect some time at the end of the meeting to hear about PSEMP and PSP work related to our efforts.

FUTURE MEETING DATES AND PROPOSED DISCUSSION TOPICS

At all of our meetings, we will:

- Hear updates from the SAM Coordinator and PRO-Committee,
- Continue to discuss SAM implementation and oversight outside the permit structure,
- Hear from our subgroups about the status of implementing our current work plan,
- Hear updates on the SAM communication strategy,
- Determine messages and timing for the next SWG Reporter issue, and
- Hear updates about PSEMP and Action Agenda coordination and other updates related to our work.

At our next meeting on Wednesday, September 13, 2017 from 9:00 am to 12:00 pm at the USGS office in Tacoma, we will also:

- Decide which new SAM source identification projects will be done,
- Hear updates on SAM effectiveness study TAC discussions and possibly confirm new projects to go forward,
- Discuss next steps for future SAM marine nearshore bacteria work,
- Hear initial findings from the SAM marine nearshore sediment 2016 sampling effort,
- Discuss the proposed process and timeline for making collective scientific recommendations for future SAM trends monitoring that includes streams and all three marine nearshore components

Work group meetings scheduled in the remainder of 2017 are on September 13 and November 15.

ACRONYMS USED IN THIS MEETING SUMMARY:

BPJ – Best Professional Judgment

CECs – Contaminants of Emerging Concern

ECY WQP – Washington Dept. of Ecology's Water Quality Program

IDDE – Illicit Discharge Detection and Elimination

PRO-C or PRO-Committee – Pooled Resources Oversight Committee

PSEMP – Puget Sound Ecosystem Monitoring Program

PSP – Puget Sound Partnership

RSMP – the permittee-funded regional stormwater monitoring program, now called SAM

SAM – Stormwater Action Monitoring, the new name for the regional stormwater monitoring program

S&T – Status and Trends monitoring

SWG – Stormwater Work Group

USFWS – U.S. Fish and Wildlife Service

USGS – U.S. Geological Survey

WDNR – Washington Dept. of Natural Resources

WSDA – Washington Dept. of Agriculture

WSDOT – Washington Dept. of Transportation