



Draft Agenda

Wednesday, March 15, 2017 from 9:00 a.m. to 12:00 p.m.

TAGRO Visitor Center, 2301 Cleveland Way, Tacoma WA 98421

Please make a note of the change from our regular meeting location.

Directions are provided on the last page of this agenda.

THE MEETING'S GOALS:

1. Select our next chair and vice chair for two-year terms beginning today;
2. Hear updates on RSMP/SAM* project implementation and program administration;
3. Discuss technical reviews of RSMP/SAM effectiveness study proposals and upcoming workshop;
4. Hear about RSMP/SAM Puget Lowland stream data analysis team's progress toward developing recommendations for future trends monitoring;
5. Hear findings from WSDA analysis of pesticides in 80 RSMP/SAM stream sediment samples;
6. Discuss recommendations for future RSMP/SAM Source ID data collection and analysis;
7. Hear from Pierce County about their Source ID analysis and findings;
8. Hear an update on the strategy for communicating RSMP/SAM findings to key audiences;
9. Decide on messages and timing for the next SWG Reporter;
10. Hear from our subgroups about other progress toward implementing our work plan for 2017-2018;
11. Hear other updates related to our work.

** The regional stormwater monitoring program funded by the municipal stormwater permittees will be called "Stormwater Action Monitoring" (SAM) in the future. See the new logo on the last page of this agenda.*

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

9:05 Select Stormwater Work Group chair and vice chair

- *Our chair and vice chair serve two-year terms beginning upon their selection today. The two nominees for chair are Dana de Leon of the City of Tacoma and Kevin Burrell of the City of Seattle. Abby Barnes is the sole nominee for vice chair. We will select our new chair by popular vote of the members present.*

9:15 Briefing and updates by the PRO-C Chair and RSMP/SAM Coordinator on RSMP/SAM implementation

- *The PRO-C last met February 6 and will next meet in late April or early May, after the Effectiveness Studies selection workshop April 11 and before the RSMP/SAM Symposium on June 1 and SWG meeting June 7.*
- *Status and trends in receiving waters:*
 - *Small Streams will be covered in detail in a later agenda topic today.*
 - *Nearshore Mussels data are in EIM. The draft analysis report is coming soon. Jen Lanksbury will discuss findings and recommendations for future sampling at the PSEMP Toxics Workgroup meeting on April 20.*
 - *A second round of sampling is in the budget for this permit cycle and will be discussed the next PRO-C meeting and at our next meeting June 7; the mussels would be deployed this November.*
 - *Marine nearshore sediment chemistry samples are at the lab.*
 - *The marine shoreline bacteria analysis and interpretation final report is in review by the RSMP/SAM Coordinator and will be published soon. Next steps will be discussed at our meeting in June.*
- *Current Effectiveness Studies (second round study selection will be covered in detail in a later agenda topic today):*
 - *Scope/schedule changes to the following projects:*



STORMWATER WORK GROUP

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

- *King County Catch Basin Cleaning: Survey delay partially due to sub-consultant transfer from one company to another, and the holidays. They're getting a good response rate.*
- *Lakewood Source Control: Same transfer of sub-consultants caused a slight delay on this schedule. We dropped part of a revision deliverable deemed not needed; any comments will be addressed in final report for project.*
- *Echo Lake: Dropping any continued measurements of flow; adding DOC. Project generally under budget and extending monitoring thru March to capture last 3 storms for each BMP. This project had a goal of capturing 12 storms. The report expected on time or soon afterward.*
- *Other project issues – resolution under development*
 - *Puyallup Raingarden/Bioretenion Protocol project deliverables were not meeting expectations.*
- *Source ID: Lakewood IDDE data compilation and analysis (Task 7): final report was delayed by transfer of sub-consultants. Next steps and recommendations will be discussed in detail in a later agenda topic today.*
- *PRO-C might consider holding some round 2 effectiveness money back for writing up fact sheets.*
- *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?*

9:30 Discuss technical reviews of RSMP/SAM effectiveness study proposals and upcoming workshop

- *Ten full proposals for the second round have been reviewed and scored by the RSMP/SAM Coordinator, Ecology engineers, and members of the SWG Effectiveness Studies Subgroup. Two proposals did not pass the technical review and ranking step, so eight proposals are moving forward in the selection process.*
- *The public workshop for getting feedback on the proposals will be April 11 at the Renton Community Center. Following the workshop, the permittees will rank the projects by survey voting.*
- *At our next meeting June 7 we will decide which studies to conduct with the remaining funds based on the voting and feedback. One or two new studies can begin this fall. (More studies could begin in fall 2018.) What additional information will we need to make this decision?*
- *The Effectiveness Studies Subgroup will continue to meet to discuss recommendations for priority questions for the next permit cycle. In June we will also determine whether (or not) to keep a list of "ready" projects to begin in the following year or in the next permit cycle.*
 - *About half of the current studies, and about half of the full proposals, are focused on bioretention.*
 - *Permittees should give further thought to their biggest program investments, and their biggest challenges.*
- *Do work group members have any comments, questions, or concerns? Do work group members wish to give further direction to our Effectiveness Studies Subgroup?*
- *Are there any comments from non-work group members?*

9:50 Hear about evolving recommendations for RSMP/SAM streams status and trends monitoring

- *The PSEMP Freshwater Workgroup (FWG) had a second detailed discussion of the analysis team's work on February 14. The FWG heard more about changes being made to Ecology EAP and USGS stream monitoring programs based on their programs' findings and considered how those changes might affect future RSMP/SAM streams monitoring. Today we will hear a summary of the discussion.*
- *Do work group members have any comments or questions? Do we have any feedback for the analysis team?*
- *Are there any comments from non-work group members?*

10:10 Hear about WSDA's findings about pesticides in stream sediments

- *In summer 2015, RSMP/SAM stream field crews collected additional sediment samples at 80 sites for WSDA to analyze for 100 pesticides (these were in addition to the 4 road-use pesticides paid for out of the RSMP/SAM budget). Abigail Nickelson will present the findings from this effort.*
- *Do work group members have any comments or questions? Do we have any feedback for the stream analysis team, SWG Agricultural Runoff Monitoring Subgroup, or other subgroups based on these findings?*
- *Are there any comments from non-work group members?*



10:30 Break

10:45 Hear about progress toward recommendations for future RSMP/SAM Source Identification work

- *The SWG approved recommendations in June 2016 to direct and focus the future work done using RSMP/SAM funds collected for permit Special Condition S8.D Source Identification. For this permit cycle, permittees' Illicit Discharge Detection and Elimination (IDDE) incident data for the 2014 calendar year were entered in a database, analyzed, and summarized in a report that was completed at the end of last year.*
- *The SWG Source Identification Subgroup met in September and November 2016 and again in January 2017. They discussed the RSMP/SAM report on the permittees' IDDE incident data and the consultant's recommendations for future work. The Subgroup is proposing a set of data fields and analyses to recommend for the next permit cycle. They are considering some projects to be conducted with S8.D funds this permit cycle.*
- *Do work group members have any questions about the proposal and developing recommendations? Do work group members wish to provide further direction for the subgroup?*
- *Are there any comments from non-work group members?*

11:05 Hear from Pierce County about their IDDE/source identification analysis and findings

- *Dan Smith will present his approach to gathering, storing, and analyzing IDDE incident data to inform Pierce County's stormwater management program priorities and actions.*
- *Do work group members have any comments or questions? Based on this approach and findings, do we have additional direction for our Source ID Subgroup?*
- *Are there any comments from non-work group members?*

11:30 Other work plan implementation and updates

- *Our subgroups continue to make progress toward achieving the goals established in our 2017-18 work plan. In addition to the updates provided in prior agenda topics, here are some specific updates:*
 - Communication:
 - *Update on AWC project: The advisory committee reviewed goals, confirmed audiences, selected a tagline, provided input on logo options, and reviewed an "about us" draft for a SAM fact sheet. See the new logo at the end of this agenda. New email lists were compiled. The baseline survey to assess knowledge of the RSMP/SAM went out to stormwater managers and elected officials in early February.*
 - *SAM tables are planned for the AWC (June 20-23 in Vancouver) and WSAC (November 13-17 in SeaTac) this year. How should we staff these tables?*
 - *"Save the date" messages for the April 11 Effectiveness Studies selection workshop were sent out in February. "Save the date" messages for the June 1 first annual RSMP/SAM Symposium went out early this month.*
 - *The last issue of the SWG Reporter went out on January 30. Possible topics for the next issue include:*
 - *Save the dates: April 11 effectiveness workshop and June 1 RSMP/SAM symposium*
 - *RSMP is now SAM (with logo)*
 - *Technical review completed on ten full proposals submitted for second round effectiveness studies; eight moving forward*
 - *Recommendations for future streams trends monitoring under consideration*
 - *Mussel contamination monitoring results coming soon*
 - *Future source identification projects under consideration*
 - *Congratulations to our new SWG Chair and Vice Chair*
- *Do other subgroup chairs 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?*



STORMWATER WORK GROUP

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

11:45 PSEMP and Action Agenda/Implementation Strategy coordination

- *The PSEMP Steering Committee (SC) and staff met in February and discussed PSP's plan for responding to the JLARC audit findings on monitoring. They met again yesterday to continue this discussion and also began to discuss a communication plan informed by our project with AWC.*
- *What are the other workgroups (WGs) discussing and what are our related plans, needs and interests?*
 - *Maggie Dutch presented changes to Ecology's marine sediment chemistry sampling program at the Toxics Workgroup's February 16 meeting.*
- *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

NEXT SCHEDULED MEETING:

Wednesday, June 7, 2017 from 9am to 12pm at the USGS Office in Tacoma, with possible extended hours as needed.

Expected agenda topics include:

- *Discuss workshop feedback and voting results on RSMP/SAM effectiveness study second round proposals;*
 - *Decide what studies will be funded with the remaining S8.C funds;*
- *Approve recommendations for future RSMP/SAM Source Identification work;*
- *Hear about recommendations for future RSMP/SAM marine nearshore mussel contaminant monitoring;*
- *Hear updates on RSMP/SAM implementation and administration;*
- *Hear from our subgroups about progress implementing our work plan for 2017-2018;*
- *Hear an update on the strategy for communicating RSMP findings to key audiences, including a debrief on the first RSMP/SAM symposium held June 1;*
- *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: June 7, September 13, and November 15.

DIRECTIONS TO THE TAGRO VISITOR CENTER IN TACOMA

A map is available at <http://cms.cityoftacoma.org/enviro/TAGRO/MaptoTAGRO.pdf>

Driving directions: Northbound or Southbound on I-5, take exit 134 Portland Avenue East and travel north. Turn left on Cleveland Way and follow it back south toward I-5 to the end of the street marked "Entrance Gate 6, TAGRO Office."

The new Stormwater Action Monitoring logo:





STORMWATER WORK GROUP

Wednesday, March 15, 2017, from 9:00 am to 12:00 pm
TAGRO Visitor Center, 2301 Cleveland Way, Tacoma WA 98421

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 present, and the organizations and caucuses they represent:

Cami Apfelbeck (Bainbridge Island), Local Governments; **Abby Barnes** (WDNR), State Agencies, and the Work Group's Vice Chair; **Brian Cochran** (WSSC), Agriculture; **Jay Davis** (USFWS), Federal Agencies; **Dana de Leon** (Tacoma), Local Governments, and the Work Group's new Chair; **Leska Fore** (PSP), State Agencies; **Dick Gersib** (WSDOT), State Agencies; **Jennifer Lanksbury** (WDFW), State Agencies; **Bill Moore** (ECY WQP), State Agencies; **Abigail Nickelson** (WSDA), State Agencies; **Kit Paulsen** (Bellevue), Local Governments; **Ben Parrish** (Covington), Local Governments; **Andy Rheume** (Redmond), Local Governments; **Rich Sheibley** (USGS), Federal Agencies; **Jim Simmonds** (King Co), Local Governments; **Connie Sullivan** (Puget Soundkeeper Alliance), Environmental Groups.

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

Fred Bergdolt (WSDOT), State Agencies; **Kevin Burrell** (Seattle), Local Governments; **Melissa Ivancevich** (Shoreline), Local Governments; **Tanya MacFarlane** (Bellevue), Local Governments; **Carla Vincent** (Pierce Co), Local Governments.

Others in attendance: **John Burk** (Tacoma), **Eva Crim** (Kitsap Co), **Todd Dahlberg** (Bellevue), **Mindi English** (Federal Way), **Zack Holt** (Port Orchard), **Amelia Min-Venditti** (Ecology), **Curtis Nickerson** (Aspect), **Sarah Norberg** (Tacoma), **Kelton Parker** (Covington), **Rob Plotnikoff** (TetraTech), **Dan Smith** (Pierce County), **Chris Thorn** (Auburn), **Ryean-Marie Tuomisto** (Kirkland, and Chair of the SWG Source ID Subgroup).

Work Group staff: **Karen Dinicola** (ECY WQP), SWG Project Manager; and **Brandi Lubliner** (ECY WQP), RSMP/SAM Coordinator.

WORK GROUP SELECTS NEW CHAIR

The SWG chair and vice chair serve two-year terms that begin in March of odd calendar years. Dana de Leon and Kevin Burrell were nominated for chair at our last meeting, and today Dana was selected to be the new chair. Abby Barnes will serve another term as vice chair. Heartfelt thanks to Cami Apfelbeck for her service as chair during the past two years.

REMEMBER, RSMP HAS A NEW NAME: SAM

The regional stormwater monitoring program funded by municipal stormwater permittees is now called Stormwater Action Monitoring (SAM). We are in a "soft rollout" period, so both names will be used for a few months elsewhere. In this meeting summary, only the new name is used.

PLAN TO ATTEND APRIL 11 SAM EFFECTIVENESS STUDY SELECTION WORKSHOP

On the morning of Tuesday, April 11 at the Renton Community Center, project leads for all eight full SAM effectiveness study proposals will present their stormwater management program effectiveness questions, study design approaches, and responses to technical reviews. Following the presentations and Q/A on each proposal, the study leads will host tables for further discussion and feedback. A survey will go out to permittees the following week.

All SWG caucuses should plan to meet between April 11 and our next work group meeting June 7, where we'll make the final decision about which studies will be funded and along what timeline.

When we select future effectiveness studies, we should be taking all of the studies into account and making sure we're addressing a good cross section of programmatic activities permittees are investing a lot of time and funds into. After this round we'll be coming up with a new set of questions based on what we've learned and what info permittees need most.

CONSIDER ATTENDING FIRST SAM SYMPOSIUM ON JUNE 1

All day Thursday, June 1 at the Renton Community Center, we'll showcase SAM project findings, activities underway, and work ahead. This is part of our communication strategy to make sure stormwater managers and decision makers are aware of what SAM is doing and how their communities can use the information SAM produces.

Among the presentations June 1 will be findings from the first round SAM streams and mussels sampling. Please note that at our next work group meeting on June 7 we will not repeat those presentations but will discuss the authors' scientific recommendations for future monitoring that supports trends analyses relevant to stormwater impacts.

WORK GROUP DISCUSSES EVOLVING RECOMMENDATIONS FOR FUTURE SAM TRENDS MONITORING

SAM scientists have been discussing findings from 2015-2016 status assessment work and thinking about recommendations for future trends monitoring in small streams and marine nearshore areas. In particular: what parameters, sites/strata, and sampling frequency would make the status and trends monitoring most stormwater-focused and relevant to understanding impacts of stormwater and management actions over time? What have we learned since adopting the *2010 Strategy*?

- For streams: At their past two meetings the Freshwater Workgroup has discussed early findings from the 2015 sampling. There are some developing recommendations including: dropping the monthly water quality sampling, dropping seldom-detected parameters and adding new ones we've learned about, adding pressure transducers to assess hydrologic impacts, and focusing future monitoring on the streams most impacted by stormwater and stormwater management inside the UGAs with some sub-strata defined by a key explanatory variable (some measure of the degree of urbanization). Some variables might not be sampled in all sub-strata. "Specialty questions" could be asked.

The draft report will be discussed at the SWG meeting in June. Some concern was raised about not covering all permitted areas (i.e., Phase I counties outside UGAs) in the future. The 2015 sampling confirmed that the strata are different. Tracking them separately might not tell us much about stormwater management, though it could be important for the agricultural runoff strategy. Lower Columbia permittees (including Phase I permittee Clark County) decided to focus permit-related monitoring inside the UGA where streams are most impacted by stormwater; the design is radically different from traditional monthly water quality sampling. The stream analysis team is looking at the Lower Columbia approach, including the signal to noise evaluation applied in that design, as well as USGS NAWQA and ongoing local targeted monitoring programs.

- For mussels: At the next Toxics Workgroup meeting the project lead will be presenting initial findings and evolving recommendations for a second round of mussel sampling. The draft report will be discussed at the SWG meeting in June.
- For sediment: The sediment project lead met with streams and mussels project leads to learn about their early finding and apply a similar approach to analysis and recommendations. The draft report will be discussed at a SWG meeting this fall.
- For bacteria: We will discuss the final report and recommendations at our meeting in June.

Work group members are encouraged to attend the next Freshwater (TBD) and Toxics (April 20) Workgroup meetings to best understand the context and scientific detail behind the evolving recommendations. Based on these scientific recommendations, the SWG will make more specific decisions about the focus and scope of this SAM component in the next permit cycle.

WORK GROUP HEARS FINDINGS OF WSDA PESTICIDE SAMPLING

Abbey Nickelson presented the findings from a study that leveraged the 2015 SAM stream sampling effort. Additional sieved sediment samples were collected at 80 SAM sites and analyzed for 122 pesticides and degradates, plus TOC. Bifenthrin was found most commonly and in very toxic concentrations. Rich Sheibley helped sample the sites and explained field conditions causing sediment variability at sites with some of the most toxic conditions. A WSDA report on these findings is expected this summer.

WORK GROUP UPDATED ON SAM IMPLEMENTATION AND OVERSIGHT

The PRO-Committee last met by phone during the February 6 snowstorm, and will next meet on May 3 for a meeting focused on budget issues and teeing up decisions that will need to be made soon. PRO-C chair Ben Parrish will be stepping aside for a medical leave and vice-chair Chris Konrad will step in. SAM Coordinator Brandi Lubliner provided a detailed update on SAM activities, contracting decisions, and upcoming projects. The details are listed in the meeting agenda. Additional points:

- The decisions around future trends monitoring will need to be informed by the budget. We planned for a second round of mussel monitoring this permit cycle and need a more precise estimate on what that will cost, particularly if new sites are recommended to meet a new, more stormwater-focused design approach.
- The TAC meeting for the Puyallup Rain Garden Assessment Protocol project clarified expectations and got the study back on track. There is a social science aspect to this project to measure acceptance and perceptions of health & function of the installations.
- The SAM communication strategy includes the possibility of hosting exhibitors' tables at the AWC and WSAC conferences in Vancouver in June and in SeaTac in November. This is an opportunity to showcase SAM projects and our collaborative approach. An insufficient number of permittees present at today's meeting felt they could staff a table. We will look into the possibility of doing a presentation at each conference, instead of an exhibitor's table.

WORK GROUP UPDATED ON PROGRESS TOWARD NEW RECOMMENDATIONS FOR SOURCE ID

The SWG Source ID Subgroup includes a large number of permittees and has been meeting regularly since last fall. At the last meeting in January the group finalized data fields and drop-down menus for the IDDE tracking form. The purpose of the form is to define consistent reporting by permittees so that data can be compared across jurisdictions. We learned a lot from the analysis of 2014 data reported by permittees, but the reporting remains inconsistent and another analysis is not recommended until next permit cycle. The subgroup is also developing recommendations for future S8.D fund expenditures. They will meet next week to discuss the database platform and some project ideas that could be funded with the remaining ~\$500K in funds for this SAM activity.

Dan Smith gave a detailed presentation showing how he has analyzed Pierce County's IDDE data over the past five years. The presentation and ensuing discussion highlighted the usefulness of this exercise both locally and regionally; it also helped promote understanding of the difference in program capacity among jurisdictions.

OTHER UPDATES RELATED TO OUR WORK

PSP's implementation strategies for B-IBI and Toxics in Fish are, respectively, halfway through and just getting started. Dana is participating in TIF. Contact Leska Fore for information on how to provide input. Leska will also share The Nature Conservancy's recently released paper on toxics.

Work group members are reminded to contact Karen to be added to the email distribution list for any of our subgroups.

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, June 7, 2017 from 9:00 am to 12:00 pm at the USGS office in Tacoma, we will also:

- Decide which new SAM effectiveness studies will be done,
- Discuss scientific recommendations for future SAM trends monitoring in streams,
- Discuss scientific recommendations for future SAM trends monitoring in mussels,
- Discuss next steps for future SAM marine nearshore bacteria work, and

- Discuss proposed expenditures for future SAM Source ID work.

Work group meetings scheduled in the remainder of 2017 are on June 7, September 13, and November 15.

ACRONYMS USED IN THIS MEETING SUMMARY:

B-IBI – Benthic index of biotic integrity

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

SWG – Stormwater Work Group

TBD – To be determined

TIF – Toxics in Fish

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