### SAM Behavior Change Program Study TAC Meeting #4

Date: March 28, 2022 Time: 1:00-2:30 PM

1:00-1:05 Welcome/Meeting Overview - Laurie

#### 1:05-1:20 Task 5 Guidance E&O effectiveness evaluation – Aimee

- Guidance Document and Report Template
  - Summary meeting with ECY /TAC
  - Report Template/Checklist pilot testing
- 1:20-1:35 Task 2.5 Studies linking SW to water quality Ani
  - Annotated Bibliography update

### 1:35-1:55 Task 2.4, Task 3, and Task 4 - Joe

- Task 2.4 Web Survey/responses
- Task 3 Effectiveness of E&O tools update
- Task 4 Website Decision Support Tool Overview of website and plan moving forward

### 1:55-2:05 Wrap Up - Laurie

- Schedule Updates
- TAC Tasks

Next TAC meeting: around May 16, 2022 1:00 - 2:30 PM

Commented [AN1]: 20 minutes

## **Stormwater Education & Outreach:** Addressing Challenges Through Behavior Change & Incentives, and Permittee Guidance for Evaluating the Effectiveness

TAC MEETING #4

March 28, 2022







# Agenda

- Welcome/Meeting Overview
- Task 5 Develop E&O Guidance Evaluation & Report Template
  - Draft Report Template Discuss where TAC assistance is needed
  - Update on next steps
- Task 2.5 Studies linking stormwater to water quality
  - Annotated Bibliography update
- Task 2.4, Task 3 & Task 4
  - Web survey/survey responses
  - Assessing effectiveness E&O Tools nationwide
  - Develop website decision-support tool
- Wrap up

# Task 5 Report Template Goal

- Streamline report writing
  - Suggested organization for writing
  - What the permit requires in the report
  - The basic information Ecology would like in the report
  - Suggestions for content typically part of the evaluation process
  - Checklist companion: step-by-step process for evaluation (not included)
  - Reference to additional assistance in the Evaluation Guidance Manual
- Assist with RFQ/RFP development
  - Understand what Consultant needs to do
  - Assist with developing RFQ/RFP content

## Task 5

## E&O Guidance Evaluation & Report Template

TAC Feedback for Project

- Provide tools to enhance E&O programs and more "turn-key"
- Provide scalable tools
- Learn how to implement successful programs
- Tools to determine if behavioral campaigns are effective.
- Keep the process simple
- Denote differences between permit required sections vs other items
- Use exact permit language

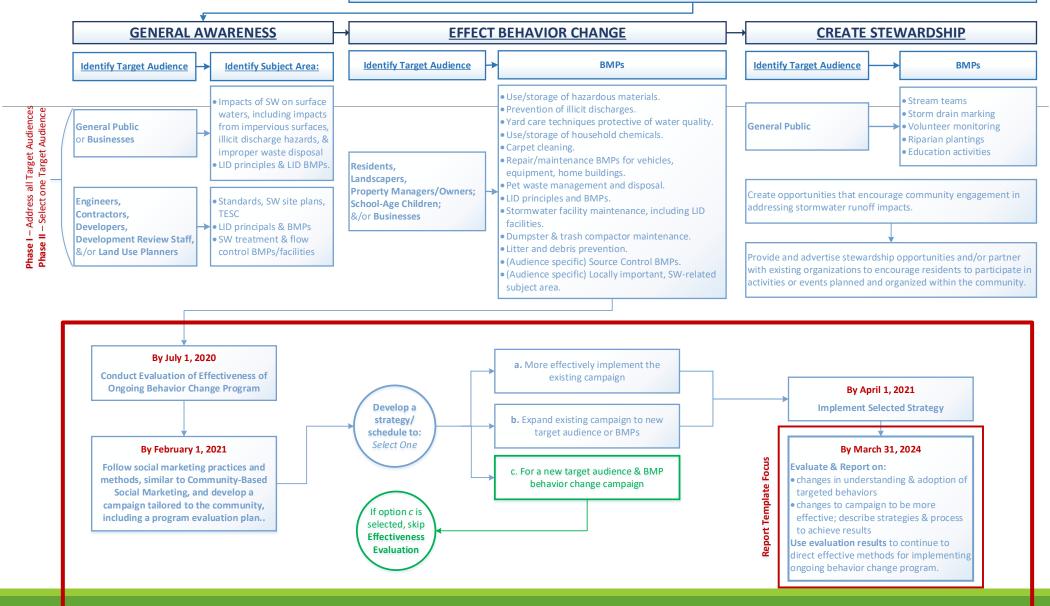
D5.4 Report Template DRAFT FINAL.docx

### WWA PHASE I & II: THE SWMP SHALL INCLUDE AN EDUCATION AND OUTREACH PROGRAM DESIGNED TO DO ALL THREE OF THE FOLLOWING CATEGORIES:

### **MINIMUM PERFORMANCE MEASURES**

Implement E&O program for the area served by the MS4.
 Program shall be based on local WQ information & target audiences characteristics to identify high priority target audiences, subject areas, and/or BMPs.

• Based on target audiences demographic, consider delivering selected messages in language(s) other than English, as appropriate for the target audience.



## Task 5 E&O Guidance Evaluation & Report Template

- TAC Review Questions to Improve Report Template
  - What is helpful and what does not
  - Glossary vs defined where applicable in template?
  - Too much detail or too little: provide examples of each
  - Examples in template: helpful or not? Should there be more?
  - Is the template too complicated? If complicated provide suggestions for simplifying. Could reduce to checklist
  - Discuss permit requirements, how they are presented, and extent of the requirements.

D5.4 Report Template DRAFT FINAL.docx

## Task 6 Training Manual

- Applying website decision-support tools
- Examples that demonstrate application of developed
- Guidance for selecting/applying effectiveness analysis methods
- Format for "just in time training" or for classroom style training
- Estimated length is approximately 25 pages

What information is missing that you would have liked? Include in final white paper: outline of what is still needed; use to justify future SAM projects.

## Task 5 Next Steps

- TAC Review Draft Template 3/28 to 4/11
- Consultant Update Template 4/12 to 4/26
- TAC Review Draft Evaluation Guidance 5/1-5/31
- TAC Pilot Testing Report Template 5/1 to 5/31
- Consultant Finalize Report Template & Evaluation Guidance 6/30/2022

## **Task 2.5: Annotated Bibliography**



### Prioritizing stormwater pollutant risks: an annotated bibliography

Anand D. Jayakaran, Ph.D., P.E. Washington State University

March 28, 2022





# The need to prioritize

Historically, prioritization around the 303d/TMDL framework

Emerging contaminants

Environmental justice

## Methods – 9 studies summarized (so far)

- 1. 2007 Prioritizing pollutant risk a European framework
- 2. 2012 Prioritizing the risk posed by stormwater pollutant sources
- 3. 2016 Prioritizing heavy metals risk
- 4. Prioritizing toxic metals and PAH risk
- 5. 2018/2020 Oregon pollutant toxicity ranking database
- 6. 2019 The need to consider exposure and toxicity when assessing pollutant mixtures
- 7. 2019 Stormwater as a source of mixed contaminants
- 8. 2020 Need for re-examining pollutant sources in stormwater
- 9. 2021 Tire wear breakdown products in stormwater

# Take home (for now)

Stakeholder input is key

Conversation shifts from TSS and BOD to metals mid-2010

PAHs and vehicles start to dominate (last 5 years)

Pollutant mixtures – not single analytes

Pollutant sources – roads and industrial sources

# Next steps

# Environmental justice – a couple of key works

## A succinct summary for future use

## Tasks 2.4, 3 and 4 (Joe)

- **Task 2.4** (*survey of E&O staff*): final version w/ full survey stats in TAC "Documents to review" folder under Meeting 4. No further input requested (though still welcome!).
- **Task 3.2** (*lit review & database of BC studies*): still addressing comments and finalizing. No further input requested.
- Task 4 (website):
  - Final "mockup" (pdf) in TAC Docs folder (Task 4.2).
  - Beta site is <u>now live</u> but incomplete (Task 4.3)
  - Will request your feedback in **mid-April** via a short Qualtrics survey and ask you to share widely in your network (Task 4.4).
  - Website long-term funding and transition planning (Task 4.5) ~**June**

## Wrap Up & Next Steps Next Meeting May 16, 2022, Review and Updates

- Discuss how Pilot Testing is going
- Initial comment on evaluation guidance document
- o Draft Whitepaper & Training Manual TAC Review early June
- Estimate Project Completion June 30, 2022

### SAM Behavior Change TAC Meeting #4 Feb. 28, 2022 NOTES

### TAC Attendance:

Jessica Shaw, Cammy Mills, Aislin Gallagher, Eric Lambert, Trey George, Peggy Campbell, Laura Haren

### Team:

Joe Cook, Aimee Navickis-Brasch, Francesca White, Ani Jayakaran, Laurie Larson-Pugh

### Task 5 – Report Template – Aimee Navickis-Brasch

Aimee reviewed and led the discussion regarding TAC comments on the Draft Report Template. A summary of key discussion points is as follows:

- Awareness, behavior change, and stewardship do not flow from one to another in the permit.
  Suggestion splitting box on flow chart for each.
- Put 'select one' on the line that leads over from the circle to the boxes in flow chart.
- Effectiveness evaluation should be at the starting point of the flow chart.

### Next Steps

- TAC has two weeks to read through outline and provide feedback. 3/28-4/11
- Consultant include TAC comments into Template 4/12-4/26
- TAC review draft evaluation guidance 5/1-5/31
- TAC Pilot Testing 5/1-5/31
- Aimee to follow up with Peggy offline re: flow chart.
- Develop Final Report Template & Evaluation Guidance 6/30/2022

### Task 6– Training Manual – Aimee Navickis-Brasch

- Decision support tools
- Focus on highlighting what is helpful and what is not.

### Task 2.5 Annotated Bibliography – Ani Jayakaran

Presented the Prioritizing stormwater pollutant risks: an annotated bibliography historical framework, emerging contaminants and inclusion of Environmental Justice. Provided summary of 9 studies chronologically.

- How is it anticipated permittees will use the annotated bibliography?
  - Help inform how the framework was developed.
  - There may be other ways to justify prioritizing pollutants besides the permit.
- Permittees have struggled with what pollutants to focus on.
  - Appreciates work helping with the first step of selecting a pollutant.
- The document provides a historical look at how these pollutants became an issue.
- Nice to have another framework to figure out how to approach selecting pollutants effectively.
- No jurisdiction does the exact same type of monitoring
  - Suggest tying information back to where there may be a local monitoring application.

### SAM Behavior Change TAC Meeting #4 Feb. 28, 2022 NOTES

- Multifactor to consider environmental justice, pollutant, target audience, etc.
- Permittees want to figure out how to tie emerging pollutants to environmental justice.
- TAC suggested a review of 2024 Permit Ad Hoc white papers for western Washington code list and permit targets.

### **Next Steps**

- Summary for TAC review
  - Include how to tie stormwater pollutants to environmental justice
  - Review environmental justice studies
- Outline ideas for future research studies

### Task 2.4, 3, and 4 - Review of behavior change tools nationwide – Joe Cook

### Task 2.4 Survey of E&O Staff

- Report and survey summary in share one drive folder.
- If TAC members are interested in survey results, contact Joe directly.
- No further input is requested.

### Task 3.2 Lit review and database of behavior change studies

- Addressing TAC comments and finalizing.
- No further input is requested.

### Task 4 Website Decision Support Tool

Reviewed the final mockup in pdf and beta site.

- Program is the E&O umbrella and the campaign is the actual campaign.
- Replace 'program' with 'campaign' throughout the site.
- Suggest pollutant column comes before audience column.
- Consider including environmental justice as a target audience.
- General Audience does not make sense to include in a social marketing campaign.
- Use the Phase I permit to guide audience choices.
- For Campaign Selection add 'unsure' option to the yes or no response questions.
- The question regarding marketing media matrix does not fit into social marketing.
- Alphabetize or group similar organizations.

### **Next Steps**

- TAC will receive a short survey in mid-April to share with their networks.
- Develop long-term funding and transition plan for decision tool.

Next TAC meeting May 16th.