

Comprehensive stormwater planning -workshop-

Phase I & Western Washington Phase II
Municipal Stormwater Permits

September 13, 2018

Water Quality Program
Abbey Stockwell

Agenda

1:30 Welcome and introductions

1:45 Intro to Comprehensive Stormwater Planning

- Coordination of long-term planning
- LID code-related requirements
- Stormwater Management Action Planning

2:15 Q/A (All)

2:30 BREAK

2:45 Multi-jurisdiction watershed scale approach (All)

3:00 Existing stormwater planning efforts
(discussion lead by jurisdictions)



Opportunity to comment

Formal drafts – comments due **11/14/18**

Send **Permit** comments to:

<http://ws.ecology.commentinput.com/?id=JWY6h>

Send **SWMMWW** comments to:

<http://ws.ecology.commentinput.com/?id=YFRKA>



Public Comment Form 1 Comment 2 Review 3 Your Copy

Formal Draft of the Phase I and Phase II Municipal Stormwater General Permits

Ecology is accepting comments on the draft Phase I, Western Washington Phase II, and Eastern Washington Phase II Municipal Stormwater NPDES general permits. Please note that this comment form is for the purpose of submitting a comment to the Washington State Department of Ecology. Commenter contact information is optional. However, contact information is necessary if you want to receive future notices or responses related to this topic.

Commenter Contact Information

All fields are optional unless otherwise indicated.

Submitted by:
Individual ☒

First Name Last Name

Address City/Town

Select a State ☒ ZIP

Email

Your Comment

Comments are due by **11:59 p.m. on November 14, 2018**. To make a comment, please download the [Excel Public Review Comment Template](#) and fill in this spreadsheet with all of your comments. To upload your comments, use the "upload a file" button below, then hit "Continue" to review your comment(s). **Please place all of your comments into the Excel spreadsheet**; this will help us more efficiently respond to your comments.

If you cannot enter your comments using excel, please enter comment(s) in the text area. Then hit "Continue" to review your comment(s). Any information (e.g., personal or contact) you provide on this comment form or in an attachment may be publicly disclosed and posted on the internet.

Next Steps: After the comment period closes, we will review and respond to comments.

[Return to resource webpage](#)

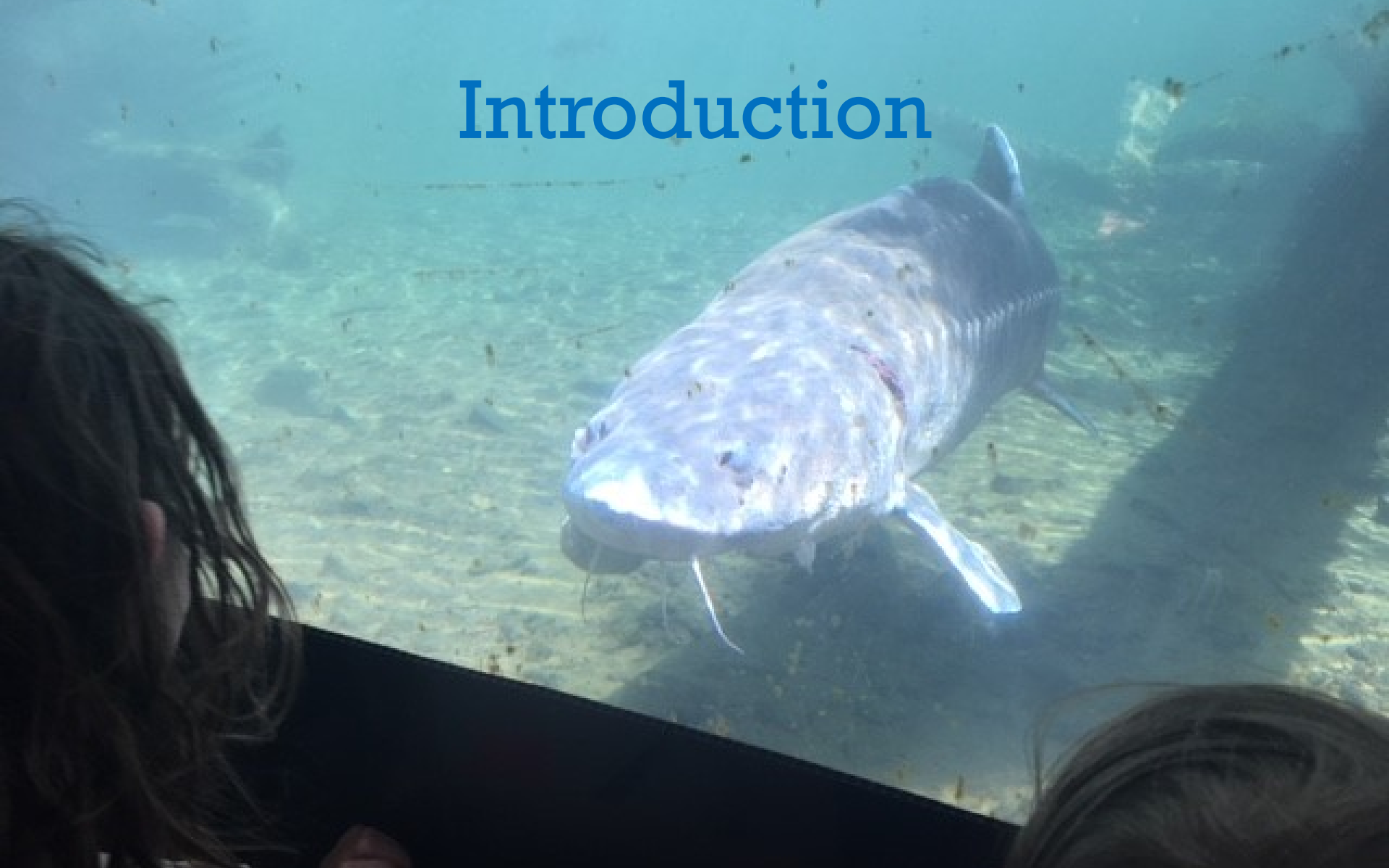
Insert comments on Formal Draft of the Phase I and Phase II Municipal Stormwater General Permits

[Upload a File](#)
"Uploading a file is optional"

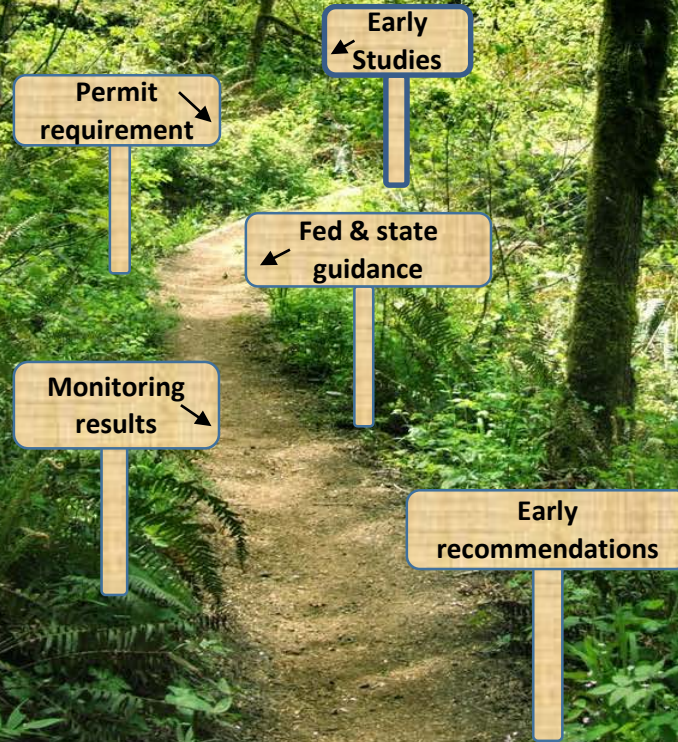
You may attach up to five 30 MB files to accompany your submission. Allowed formats are pdf, jpg, png, ppt, xls, doc, docx. If you experience technical difficulties submitting your comment please contact the person listed at the bottom of this page.

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Introduction



Path to comprehensive stormwater planning



Watersheds are important

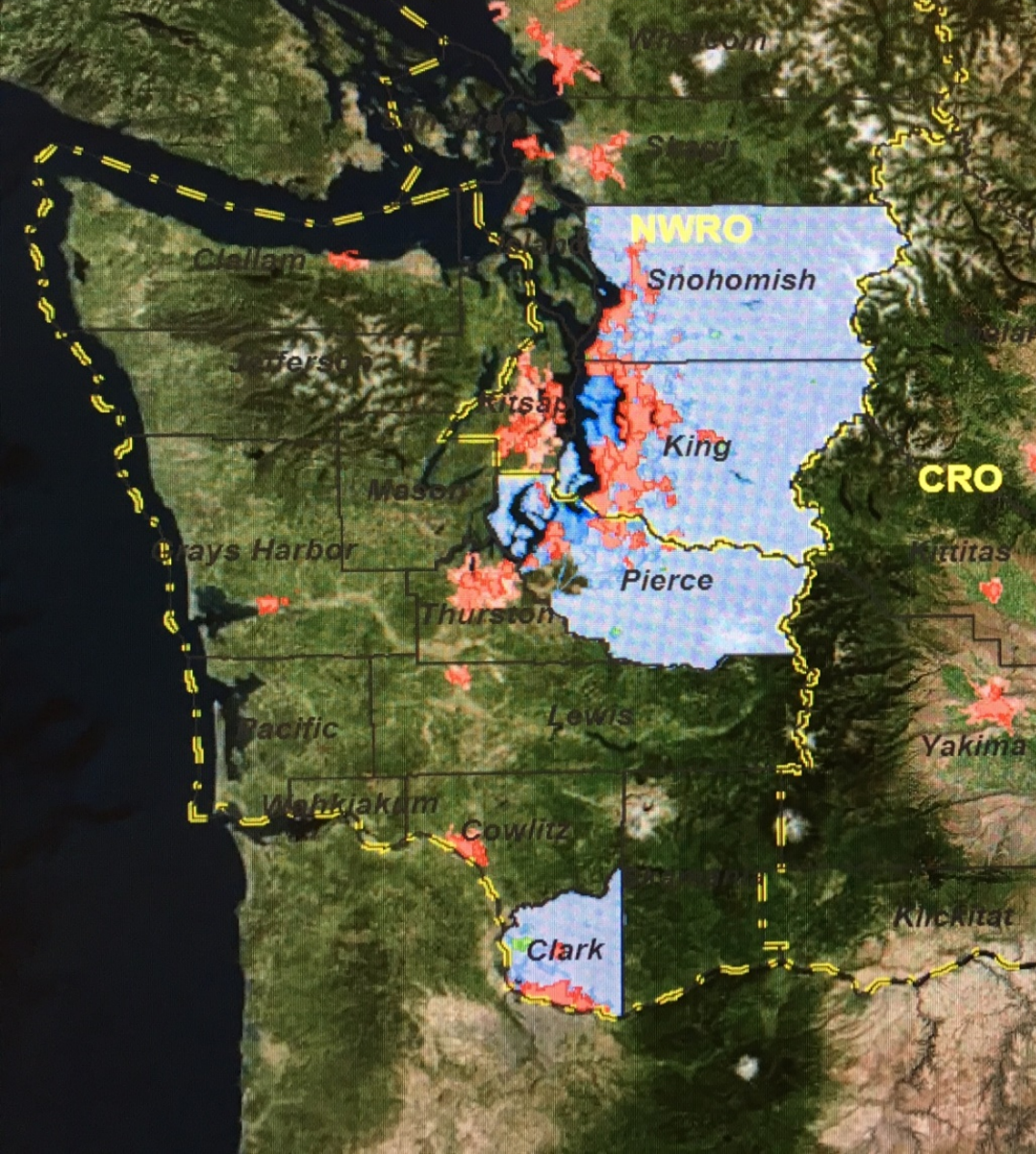


“Planning is an Essential Tool”

- ▶ **A watershed scale approach is needed**
- ▶ **Development strategies can be a water quality management tool to protect resources**

Phase I Counties

- ▶ Select a watershed under pressure of development
- ▶ Build a model to test development scenarios
- ▶ Compare results to forested conditions

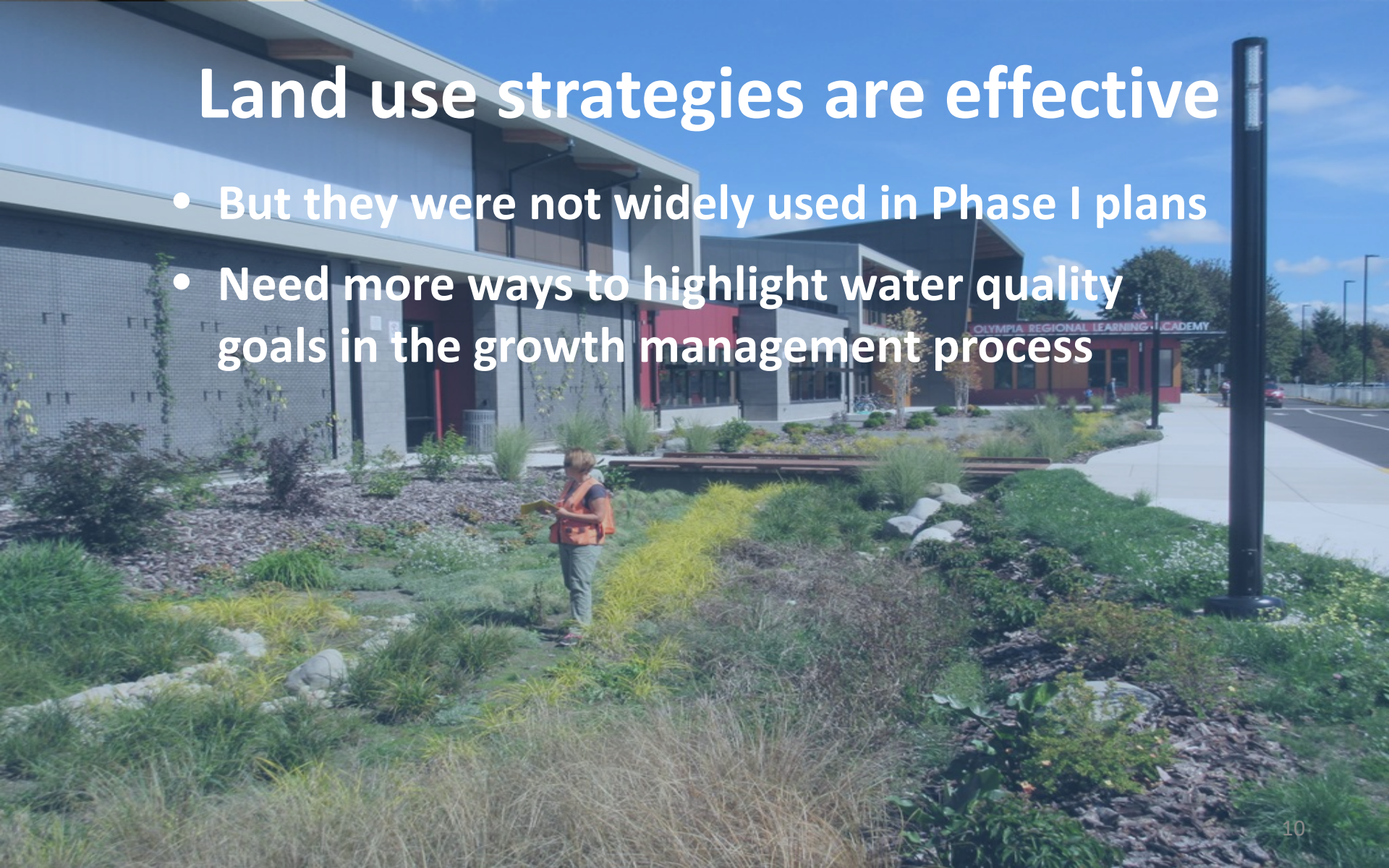


**Water quality will continue to be impaired
without more stormwater investments**



Land use strategies are effective

- But they were not widely used in Phase I plans
- Need more ways to highlight water quality goals in the growth management process



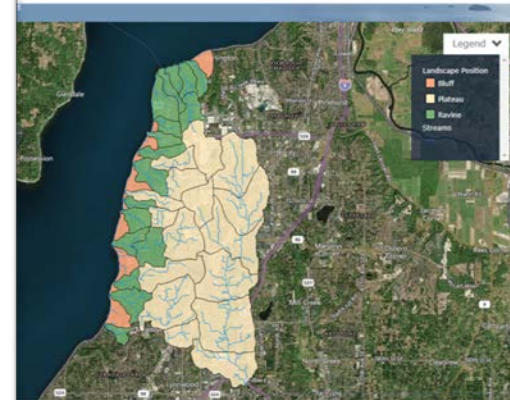
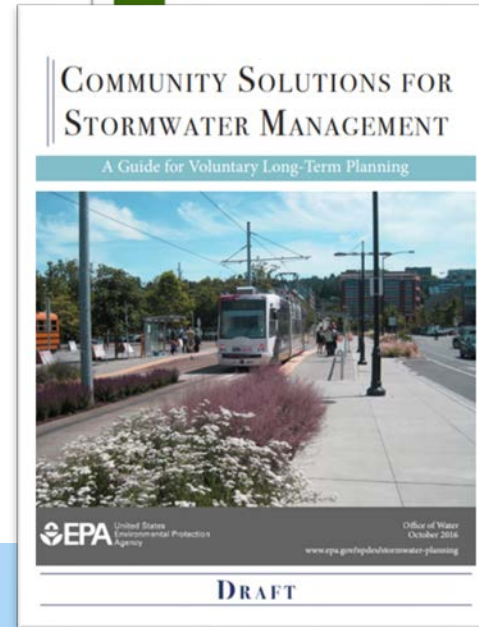
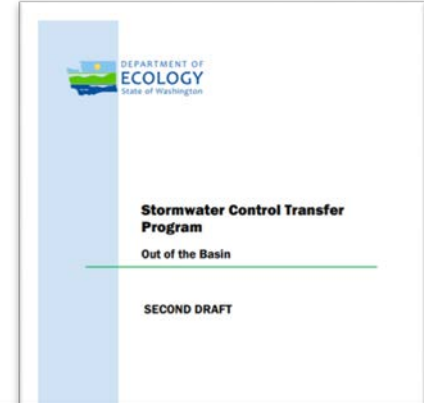
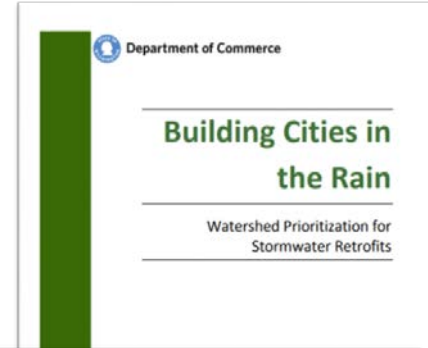
2015-16 status assessments of Puget Sound lowland streams and nearshore areas

- Higher pollutant levels and lower quality habitat within the Urban Growth Areas than outside

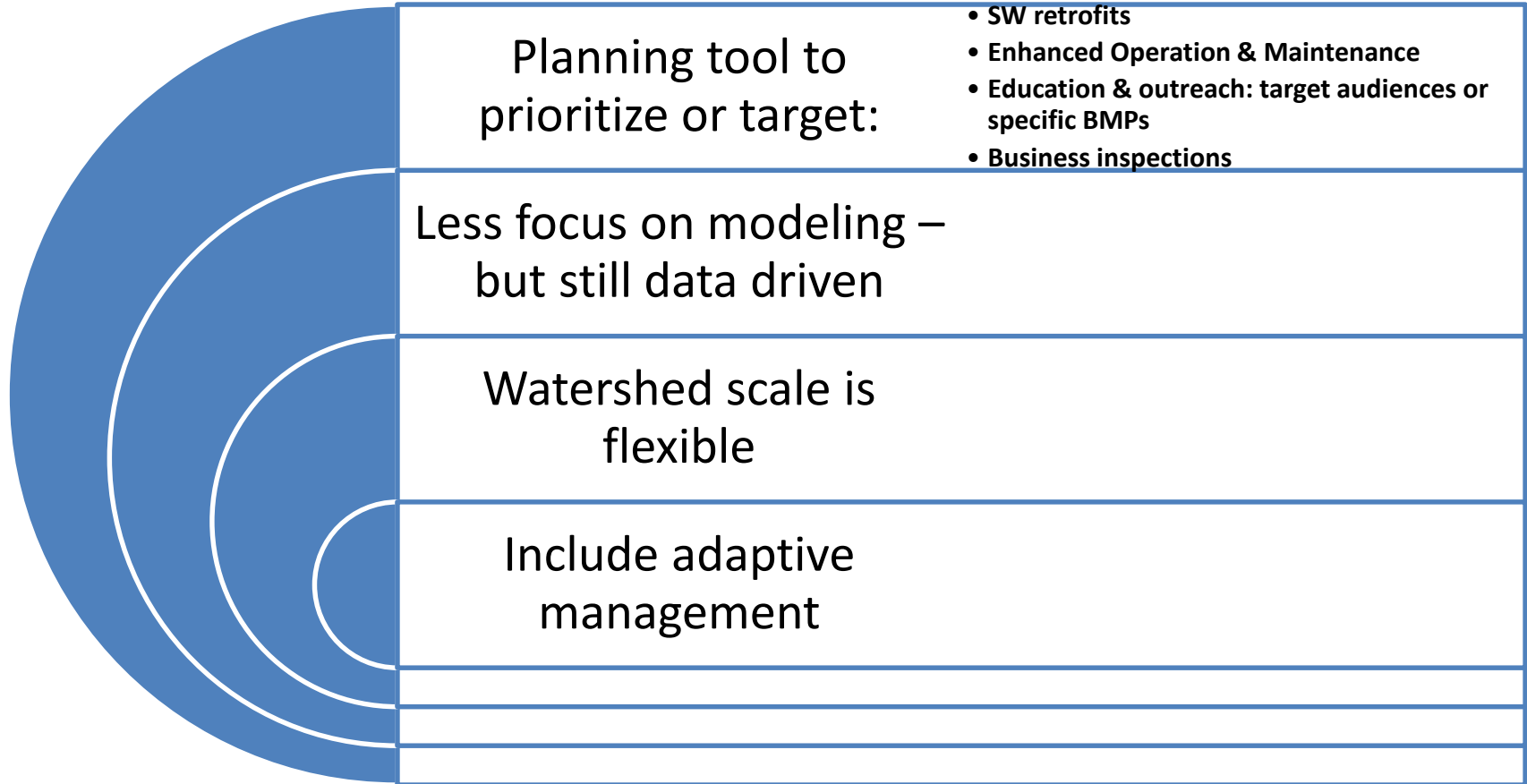


2016 – Bumper year for guidance

- [Building Cities in the Rain](#)
 - Commerce
- Stormwater Control Transfer Program
 - ECY
- Watershed characterization
 - ECY
- [Long term planning](#)
 - US EPA



Recommendations from stakeholders





Proposed approach

Let's get started!

Convene an interdisciplinary team

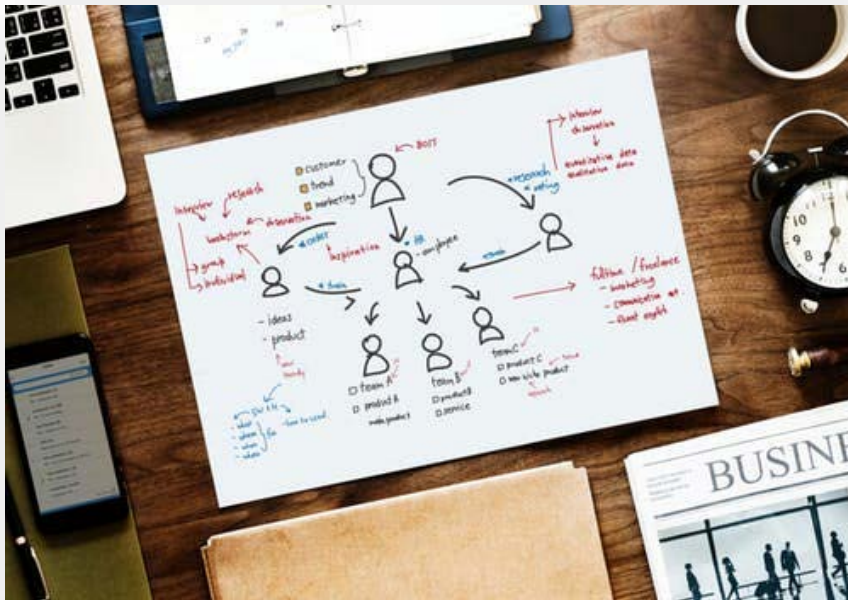


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Coordination of long-term planning

How do SW mgt needs inform local policies & development strategies?



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LID code-related requirements

Continue to make LID the **preferred and commonly used approach** to development



Stormwater Management Action Planning



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Phase I

- Requirements different from Phase II:
 - Structural SW Controls
 - PH I Counties further develop watershed-scale SW plans developed under 2013 Permit.



Big questions

- How can we most strategically address existing stormwater problems?
- How can we meet our future population and density targets while also accomplishing our water quality goals?

Stormwater Management Action Plan (SMAP)

- Three components:
 - Receiving water basin assessment
 - Receiving water basin prioritization
 - SMAP for a high priority basin



Develop
inventory of
basins inside
your
jurisdiction



Use existing
information to
prioritize your
basins

- assess data gaps



Identify
catchment
areas for
planning within
priority basins



Identify specific
approaches to
apply within
the catchment
areas.



Assess local
conditions



Select
catchments
areas

Prioritization
of receiving
waters

Tailored
strategies or
actions

Stormwater Management Action Plan (SMAP)

- Three components:
 - **basin assessment**
 - basin prioritization
 - high priority basin plan



What does it say in the permit?

Permittees shall **document and assess existing information** related to local receiving waters and contributing area conditions to identify receiving waters that will benefit from stormwater management planning.

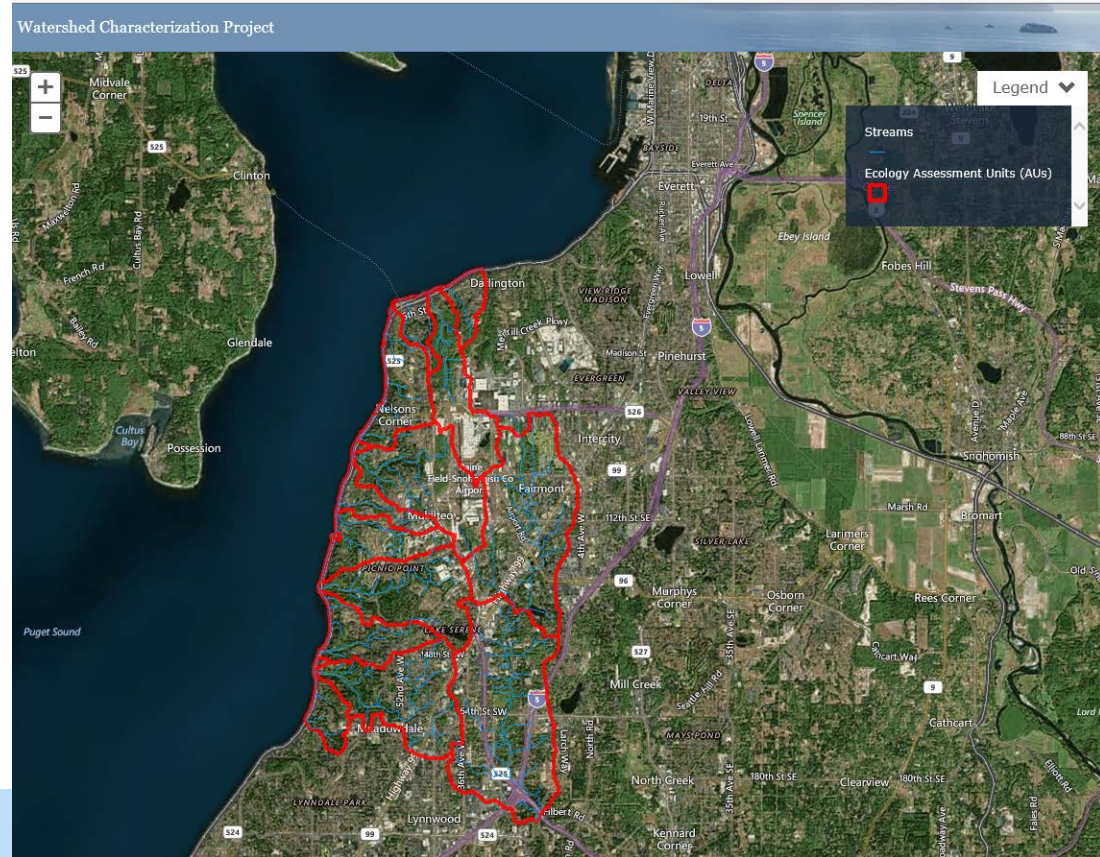
Permittees may choose to meet this permit requirement individually, or as part of a regional effort.

Where significant gaps in the state of knowledge exist, a plan and protocol should be developed to improve the assessment.

Our Guidance

1. Delineate basins and identify receiving waters,
2. Assess receiving water conditions, and
3. Assess relative conditions, contributions, and influence.

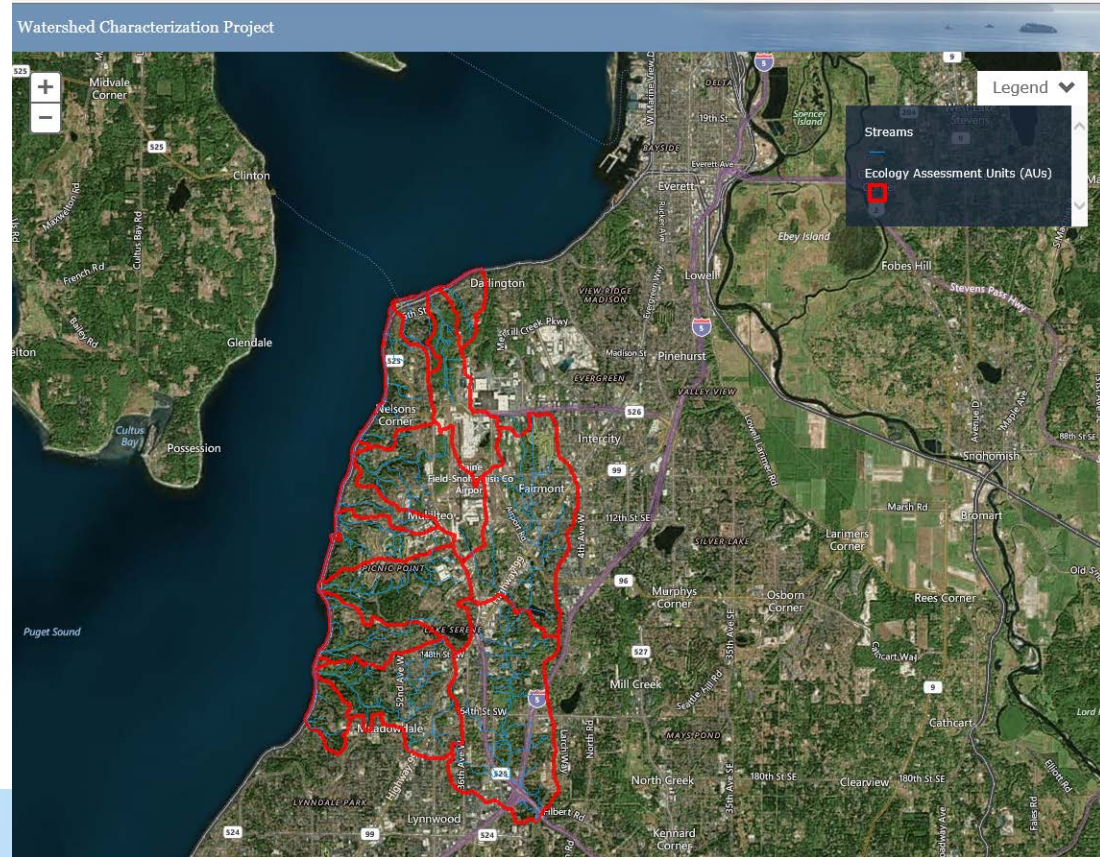
The outcome of this step is a narrowed list of candidate basins that includes the information you need to support your prioritization process.



Receiving water basin assessment

Delineate basin boundaries

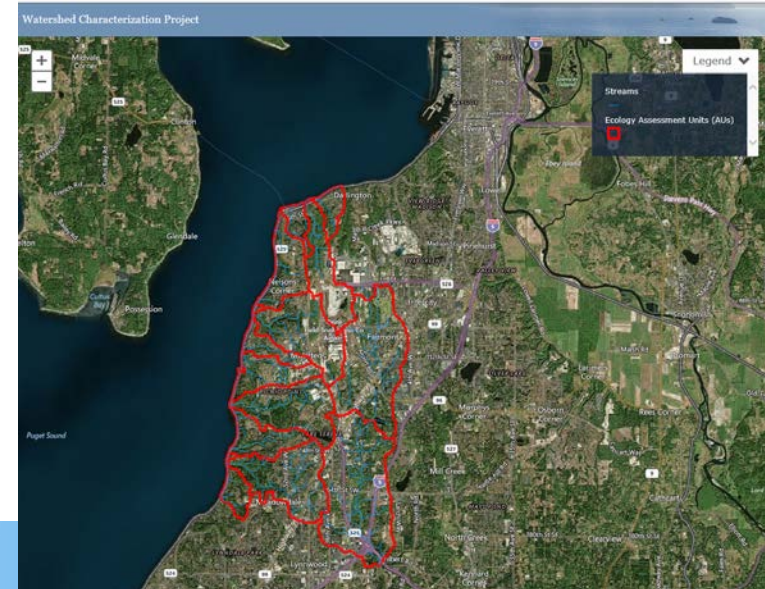
- 1-20 square miles
- All basins in jurisdiction



Receiving water basin assessment

Delineate basin boundaries

- Total contributing area for each receiving water
- % area within permit coverage area

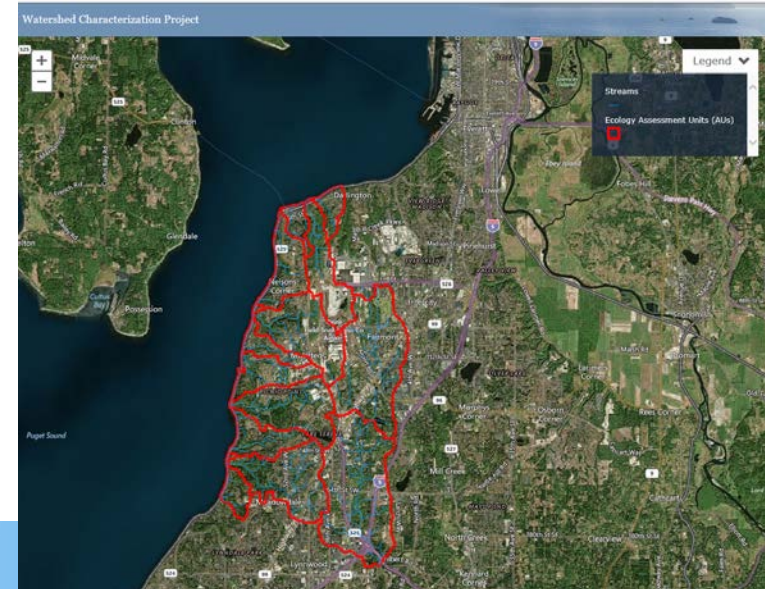


Receiving water basin assessment

Delineate basin boundaries

Direct discharges to
Puget Sound:

- At shoreline areas, determine if there is a net deposition of sediment/solids

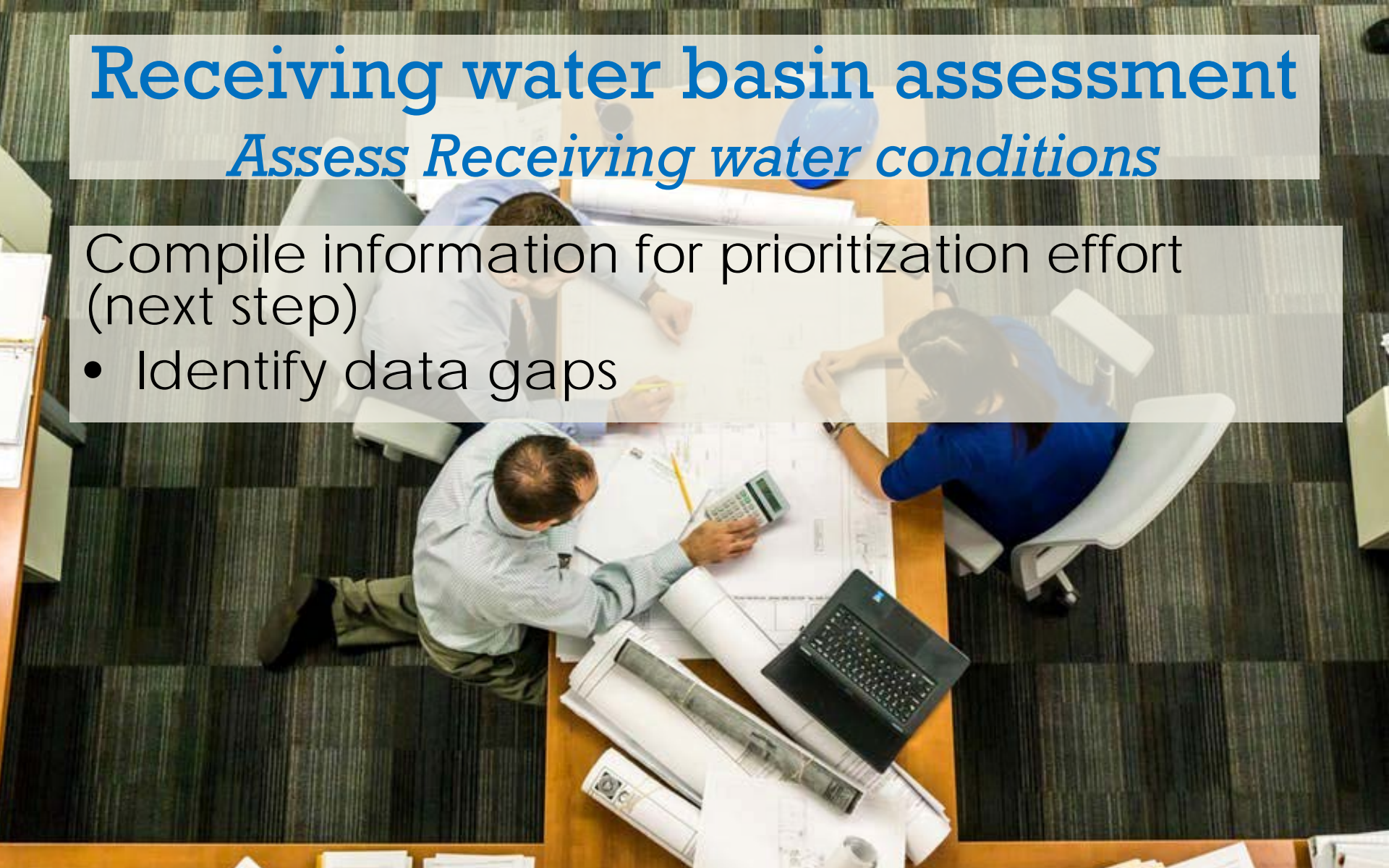


Receiving water basin assessment

Assess Receiving water conditions

Compile information for prioritization effort
(next step)

- Identify data gaps





Receiving water basin assessment

– *last assessment step*

Assess:

- relative conditions,
- contributions, and
- influence.

The outcome of this step is a narrowed list of candidate basins that includes the information you need to support your prioritization process.

Stormwater Management Action Plan (SMAP)

- Three components:
 - basin assessment
 - **basin prioritization**
 - high priority basin plan



What does it say in the permit?

Informed by the assessment of receiving waters developed above,

*Permittees shall **develop a prioritization method and process** to identify and rank areas where the receiving waters receive a benefit from implementation of :*

- stormwater facility retrofits and*
- management actions*

to reduce pollutant loading and address hydrologic impacts from existing development.



Our Guidance

- Identify:
 - % of basin in your jurisdiction
 - Other jurisdictions that share the basin
 - Total % impervious area in basin
 - Existing plans to support this effort



Receiving water basin prioritization

Establish process to
prioritize basins for:

- Stormwater retrofits
- Tailored SW Mgt. strategies

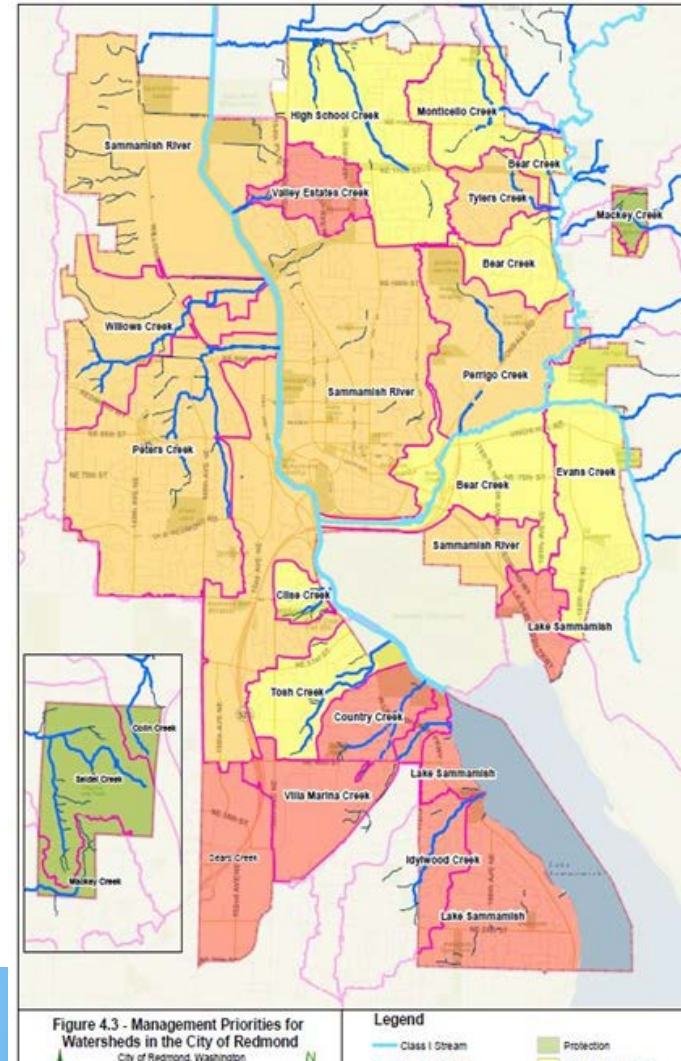


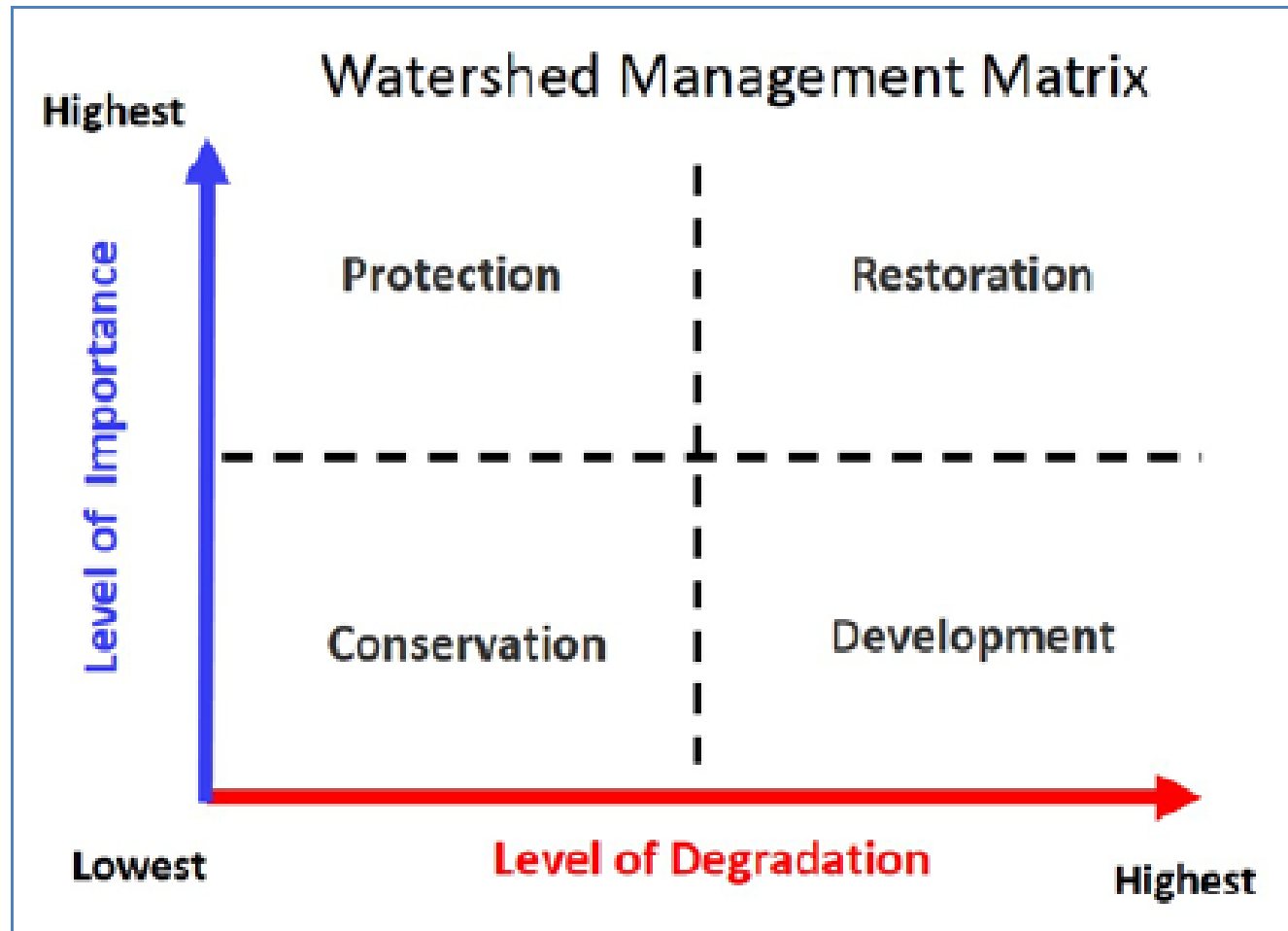
Figure 4.3 - Management Priorities for Watersheds in the City of Redmond, Washington

Legend

Class I Stream

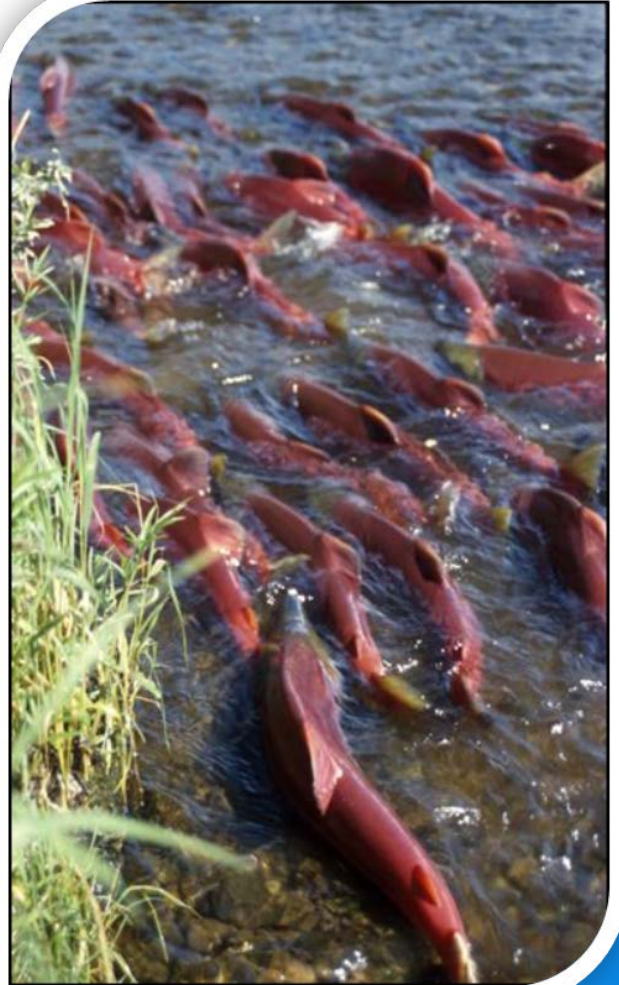
Protection

Prioritize Watersheds



Prioritization feedback

Get input from public, tribal, federal, state natural resource agencies



Stormwater Management Action Plan (SMAP)

- Three components:
 - Receiving water basin assessment
 - Receiving water basin prioritization
 - **high priority basin plan**



What does it say in the permit?

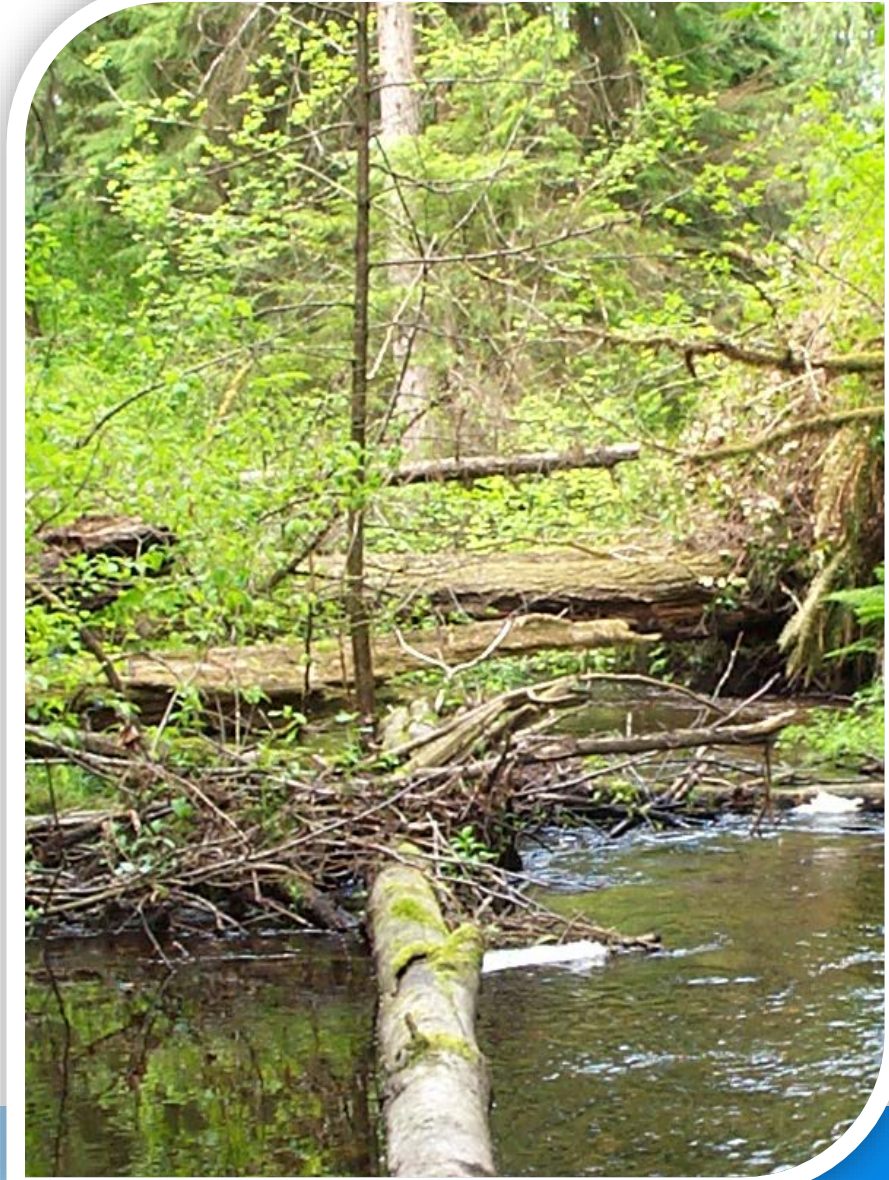
Permittees must **develop a Stormwater Management Action Plan (SMAP) for at least one high priority area** (according to S5.C.1.c.ii) that identifies:

- Targeted or customized implementation of stormwater management actions;
- The need for stormwater facility retrofits;
- A proposed implementation schedule and budget sources;
- Short-term actions (i.e. actions to be accomplished within six years);
- Long-term actions (i.e. actions to be accomplished within seven to 20 years); and
- Process to adaptively manage the plan.



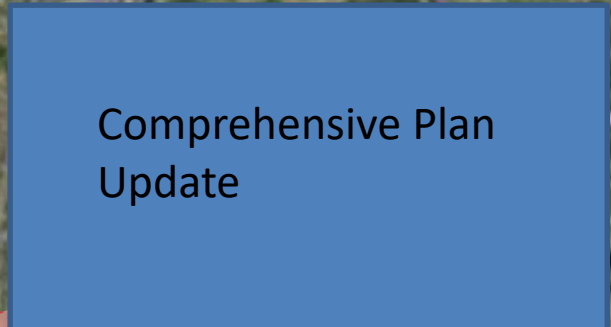
Stormwater Management Action Plan

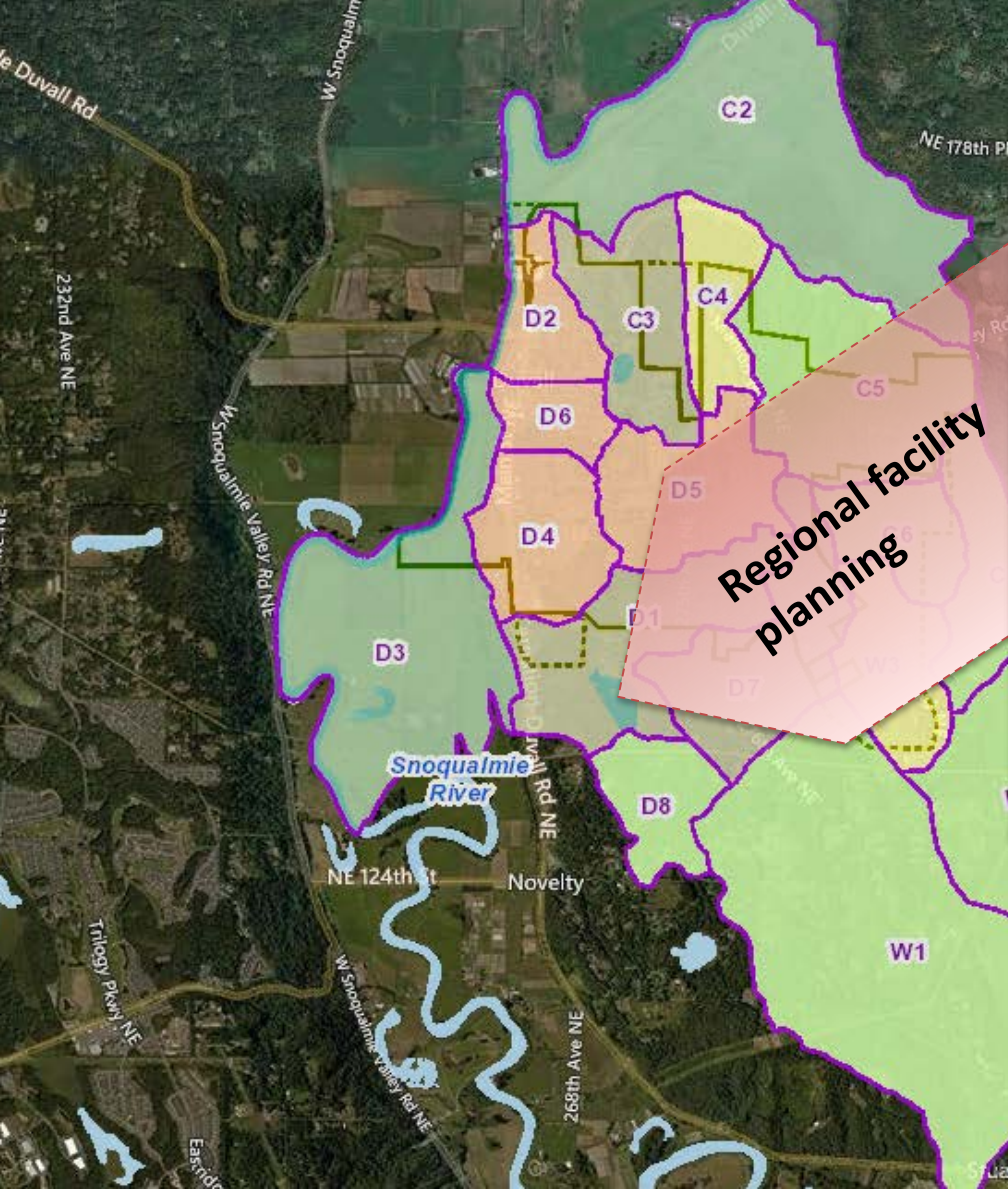
- Shorter-term goals
 - Implementable in 0-6 yrs
 - Ed & outreach campaign
- Longer-term goals
 - Implementable in 7-20 yrs
 - Comp. plan updates
 - Regional facility planning
- Adaptive Management
 - Feedback loop

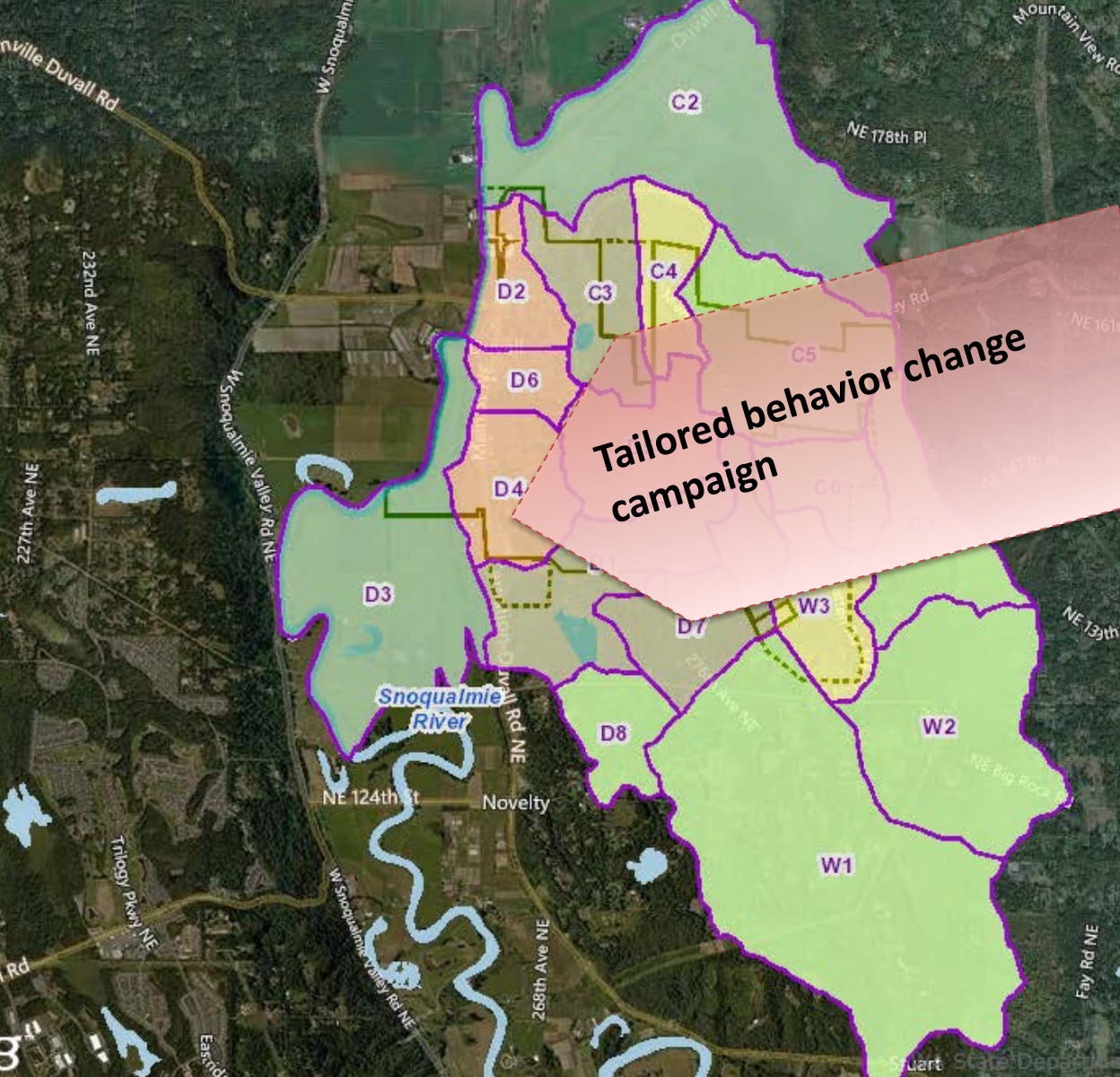


Retrofits work... up to a point

- Reduce flows, toxicity, and pollutant loads
- Need both strategic and opportunistic projects
- Planning helps match capacity to need







Tailored behavior change campaign





**Targeted CB and
line cleaning**

Questions



Watershed-scale approach?

Does anyone see a watershed-scale/
multijurisdictional effort as a path forward?



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Existing planning efforts

- Share your story
- Describe:
 - Priorities
 - Restoration goals
 - Adaptive mgt. process



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What's next?

- October 2 - Mount Vernon
- October 10 – Seattle
- October 30 – DuPont
- November 6 – webinar
- November 7 - Vancouver
- November 14 – Close of comment period



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What's next?

July 1:

- Reissue Permits
- Publish RTC
- Publish SWMMWW



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Watersheds are important



