

Stakeholder Workshop #2

Stormwater Retrofit Planning

Project for WRIA 9

a project funded by an
USEPA Watershed Management
Assistance Grant

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Why are Retrofits Important?

- Most developed areas have no or inadequate controls
- Large storm flows erode streams
- Untreated stormwaters harm fish

➔ Retrofits improve flow and water quality

Stormwater Retrofit Examples

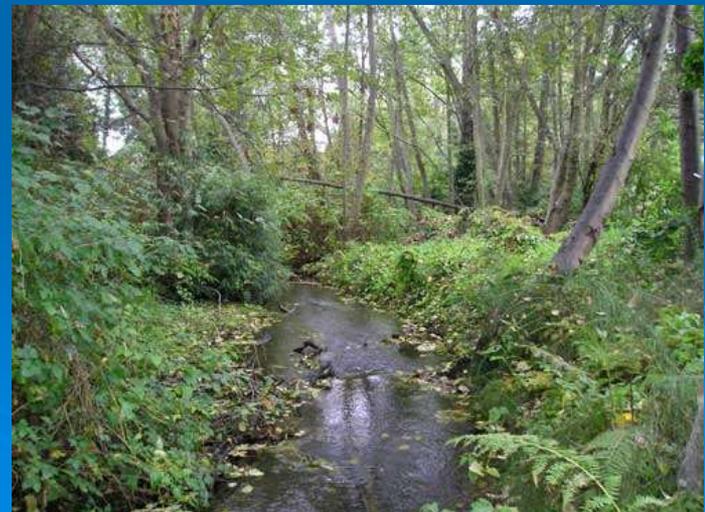


Stormwater Retrofit Planning for WRIA 9

- \$1M grant from EPA
- Assess needs in WRIA 9
- Cost effectiveness
- Work with stakeholders
- Present plan to WRIA 9 Watershed Ecosystem Forum for consideration
- Extrapolate cost estimates to all Puget Sound

Project Area

- WRIA 9 except
 - Headwaters above Howard Hanson Dam (forested)
 - City of Seattle (combined system)
 - Vashon Island
- Focus on streams



Project Team and Funding

Organization	EPA Funding	Local Match
USEPA*		
King County	\$707k	\$300k
University of Washington	\$243k	\$20k
Department of Ecology**		
City of Auburn	0	\$5k
City of Covington	0	\$5k
City of SeaTac	0	\$5k
Kellogg Consulting	\$50k	0

* USEPA contributing \$1M in grant funding, and staff time to project management team

** Ecology contributing staff time to project management team and updating retrofit database

Project Benefits

- Understand trade offs
 - Cost vs. improvement
- Demonstrate use of modeling tools
- High level planning estimate of retrofit funding needs
- Input to capital project planning
- Influence future permits

Project Schedule

2010

2011

2012

2013

Data Collection

Set In-Stream Indicators and Targets

Watershed Modeling

Retrofit Modeling

Plan Development

Extrapolate
to Puget
Sound


**We Are
Here**

Workshop
#1

Workshop
#2

Workshop
#3

Workshop
#4

Stakeholder Input

Thank You!

Workshop #1 Success!

- Attended by 51 stakeholders
- Reviewed project, models, data collection and scenarios, indicators and outputs
- Answered extensive questions about project specifics, goals and limitations
- Received input on modeling scenarios and in-stream indicators
- Adjusted scope to address input

Project Status

- Data collection completed – please comment on draft reports!
- In-stream target ranges recommended – please comment on draft report!
- Watershed modeling mostly completed
- BMP modeling begun using SUSTAIN and separate methods
- Outreach ongoing

Opportunities for Participation

- Stakeholder workshops
- Twice-yearly briefings at WRIA 9 Watershed Ecosystem Forum
- One-on-one outreach
- e-mail updates and requests for feedback
- Review and comment on draft reports and results

What Will You Do Today?

- Hear recommendations and provide feedback on in-stream targets
- Hear status of retrofit modeling and provide input on proposed BMP treatments
- Hear updates on other BMP modeling projects