

Burnt Bridge Creek Kickoff Meeting

Source Assessment and TMDL Alternative Restoration Plan



Ecology Team



Devan Rostorfer



Sheelagh McCarthy



Molly Gleason



Lawrence Sullivan

Water Quality Specialist
devan.rostorfer@ecy.wa.gov
360-409-6693

Hydrogeologist
Sheelagh.McCarthy@ecy.wa.gov

Monitoring Specialist
Molly.gleason@ecy.wa.gov
360-409-6693

Supervisor
lawrence.sullivan@ecy.wa.gov
360-407-6389



Southwest Regional Office



VFO Staff Working for SW Washington



Rian Sallee
VFO Manager



Dana Mocca
VFO Secretary

Vancouver Field Office Team



Spill Prevention



Ken Esplin
Facility Prevention
Engineer



Vacant
Vessel and Oil Transfer
Inspector

Toxics Cleanup



Craig Rankine
Cleanup Site Manager
Hydrogeologist



Dave Mora
Municipal Stormwater
Grants Manager

Water Quality



Jessica McConnell
Sand & Gravel / Winery
Permit Manager

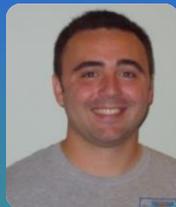


Noosheen Pouya
Municipal Stormwater
Permit Planner

Spill Response



Curt Piesch
Response Team



Ben Cornell
Response Team

Shorelands & Environmental Assistance



Miranda Adams
Shorelands & Wetlands Specialist



Devan Rostorfer
TMDL Coordinator



Jason Lenz
Forest & Fish



Greg Bengt
Senior Construction
Stormwater Inspector

Meeting Objectives

1. Provide an overview of Ecology's TMDL process
2. Present results from the *Burnt Bridge Creek Source Assessment*
3. Discuss implementation opportunities and challenges.
4. Discuss next steps and project timeline.

Agenda

- 1. Overview of process** **1:05 – 1:20 p.m.**
- 2. Burnt Bridge Creek Source Assessment** **1:20 – 1:50 p.m.**
- 3. Discussion** **1:50 – 2:25 p.m.**
- 4. Next Steps** **2:25– 2:50 p.m.**
- 5. Final questions and meeting wrap-up** **2:50 – 3:00 p.m.**

How to Participate



How to Mute and Unmute



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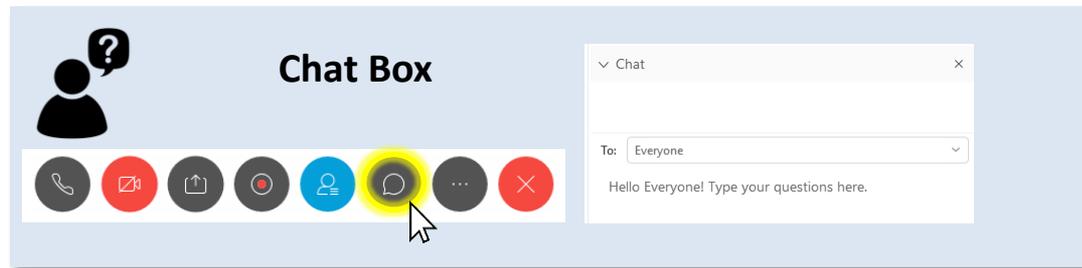


Camera



Video
OFF

Chat Box



1. Select who you wish to speak to

2. An Ecology staff person can read your typed questions.

3. Your questions or comments will be addressed during the meeting

--OR--

4. We will collect unanswered questions in an email a response.

Having Trouble with Webex?

- **Step 1:**
 - Logout of meeting, and log back in using registration link.
- **Step 2:**
 - Connect to audio using phone number.
 - +1-415-655-0001 US Toll
 - +1-206-207-1700 United States Toll (Seattle)
 - Access code: 240 323 92

Welcomes & Introductions

- *Name, Title, Department*





Overview of Source Assessment and TMDL Process

Monitoring &
Water Quality
Assessment

Project Planning

Source
Assessment

TMDL
Alternative

Implementation
& Public
Education

Effectiveness
Monitoring

Burnt Bridge Creek

State's Polluted Waters List - 303d list

- Bacteria, Temperature, pH, and Dissolved Oxygen

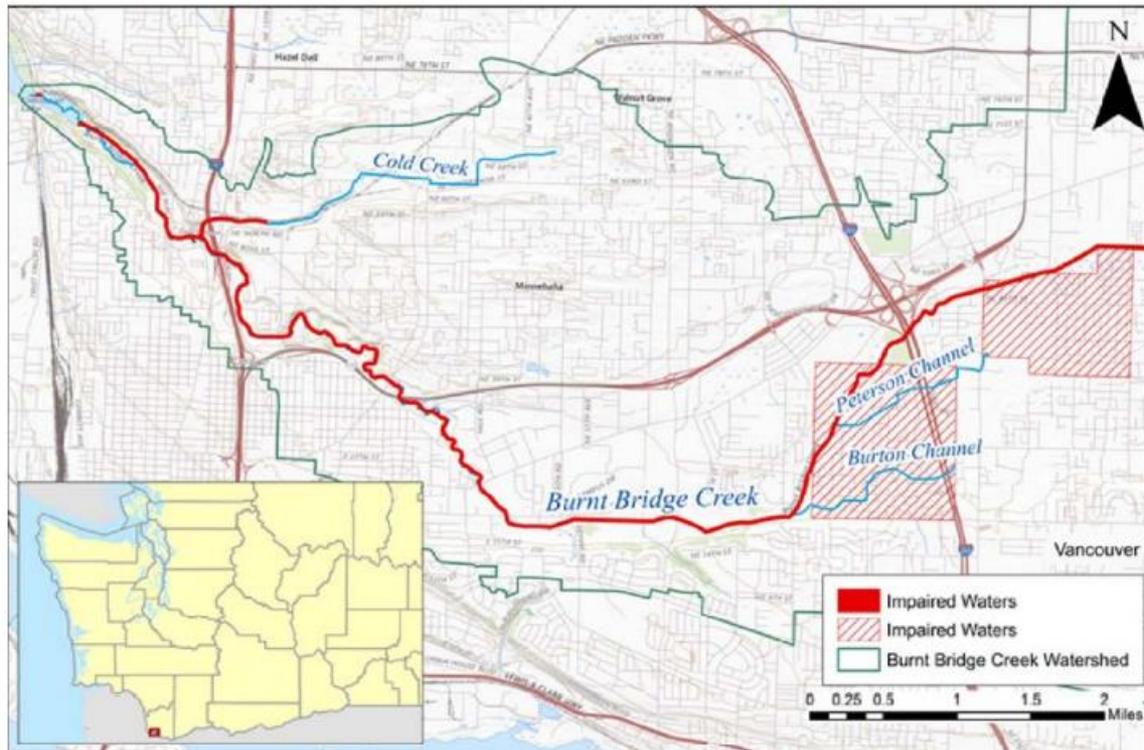
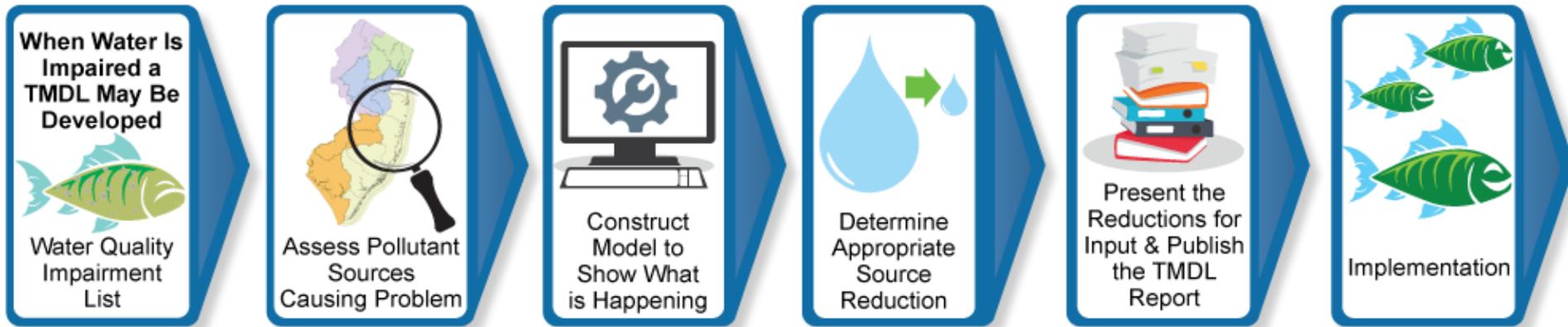


Figure 1. Burnt Bridge Creek watershed and 303(d) listings of impaired waters.

Burnt Bridge Creek

TMDL = Total Maximum Daily Load

“How much of a pollutant can the creek receive and still meet water quality standards?”



TMDL study steps

1. Water quality monitoring and assessment
2. TMDL study
3. TMDL implementation plan

Burnt Bridge Creek Source Assessment

TMDL Study- *Source Assessment*

- Identify critical areas
- Identify shade deficits
- Bacteria load reductions needed
- Implementation recommendations



DEPARTMENT OF
ECOLOGY
State of Washington

Burnt Bridge Creek Watershed Fecal Coliform Bacteria, Temperature, Dissolved Oxygen, and pH

Source Assessment Report



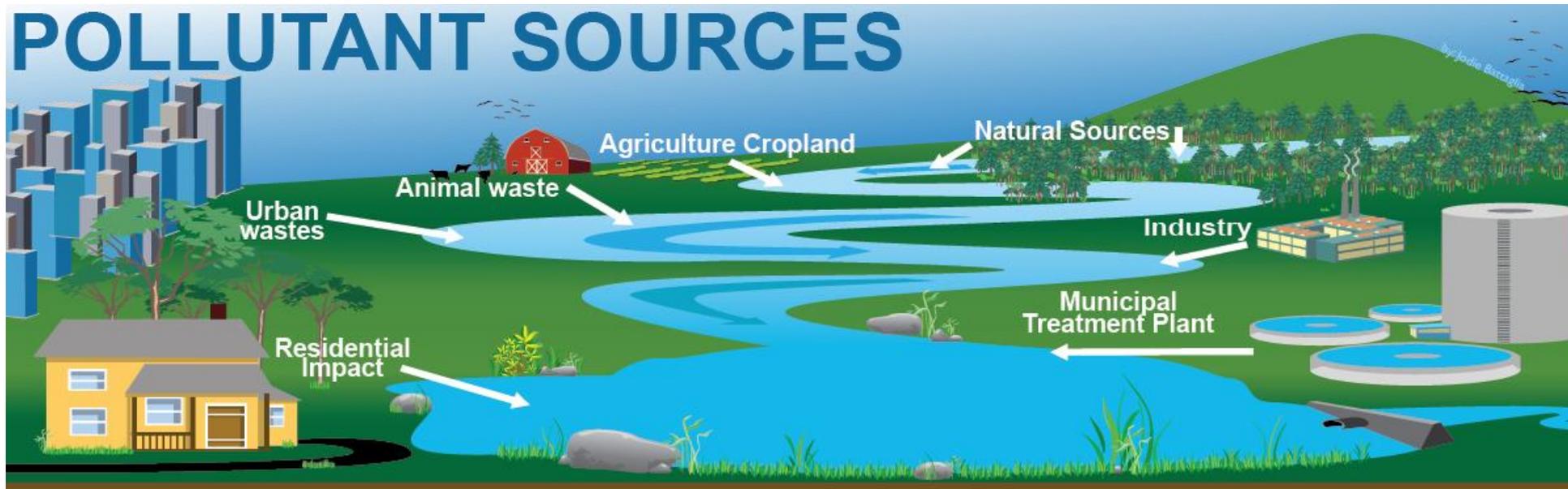
October 2020

Publication 20-03-016

TMDL Alternative

TMDL Implementation Plan - TMDL Alternative Restoration Plan

- Identify BMPs needed to address pollutant sources
- EPA's Nine Minimum Elements
- Funding



Environmental Protection Agency's Nine minimum elements for watershed plans

Element	Watershed Planning Step
1	Identify causes of impairment and pollutant sources.
2	Estimate load reductions needed.
3	Describe nonpoint source implementation to achieve load reductions.
4	Estimate technical and financial assistance needed.
5	Develop information and education component.
6	Develop implementation schedule.
7	Develop milestones and targets.
8	Develop criteria to measure progress.
9	Monitor to evaluate effectiveness of implementation efforts.

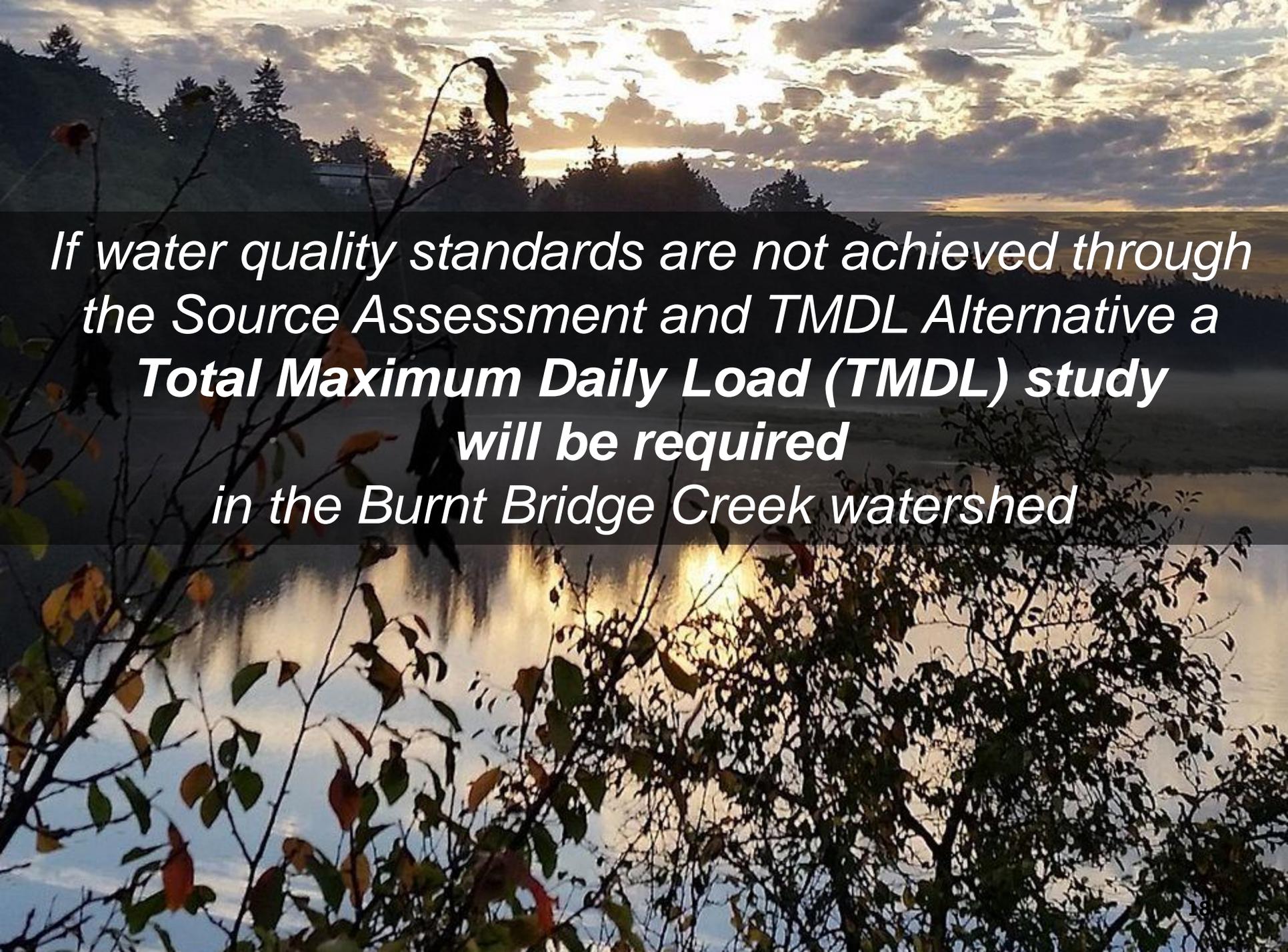
Achieve Clean Water

**Meet Water Quality
Standards**

Support Beneficial Uses

**For People, Fish, and
Wildlife**





*If water quality standards are not achieved through the Source Assessment and TMDL Alternative a **Total Maximum Daily Load (TMDL) study** will be required in the Burnt Bridge Creek watershed*

Questions?





Burnt Bridge Creek Source Assessment

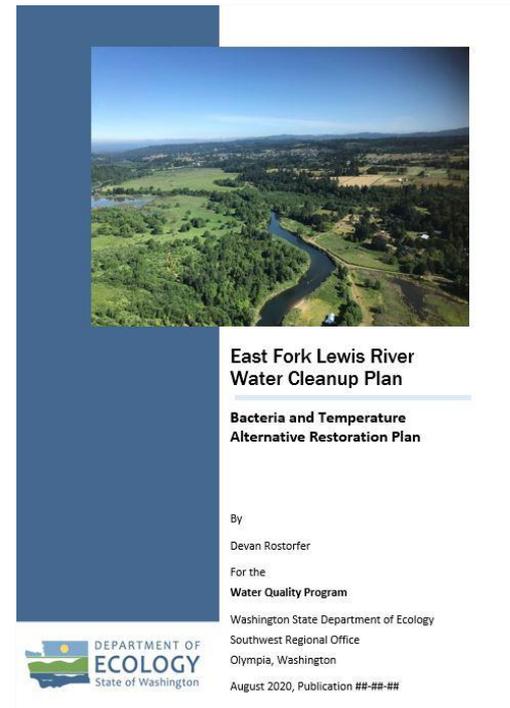
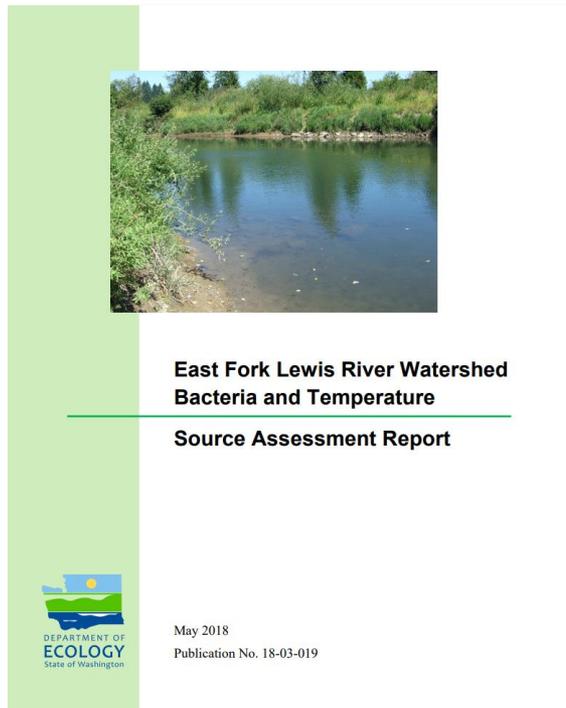
*Sheelagh McCarthy, Hydrogeologist,
Environmental Assessment Program.*

Ecology's TMDL work in Clark County



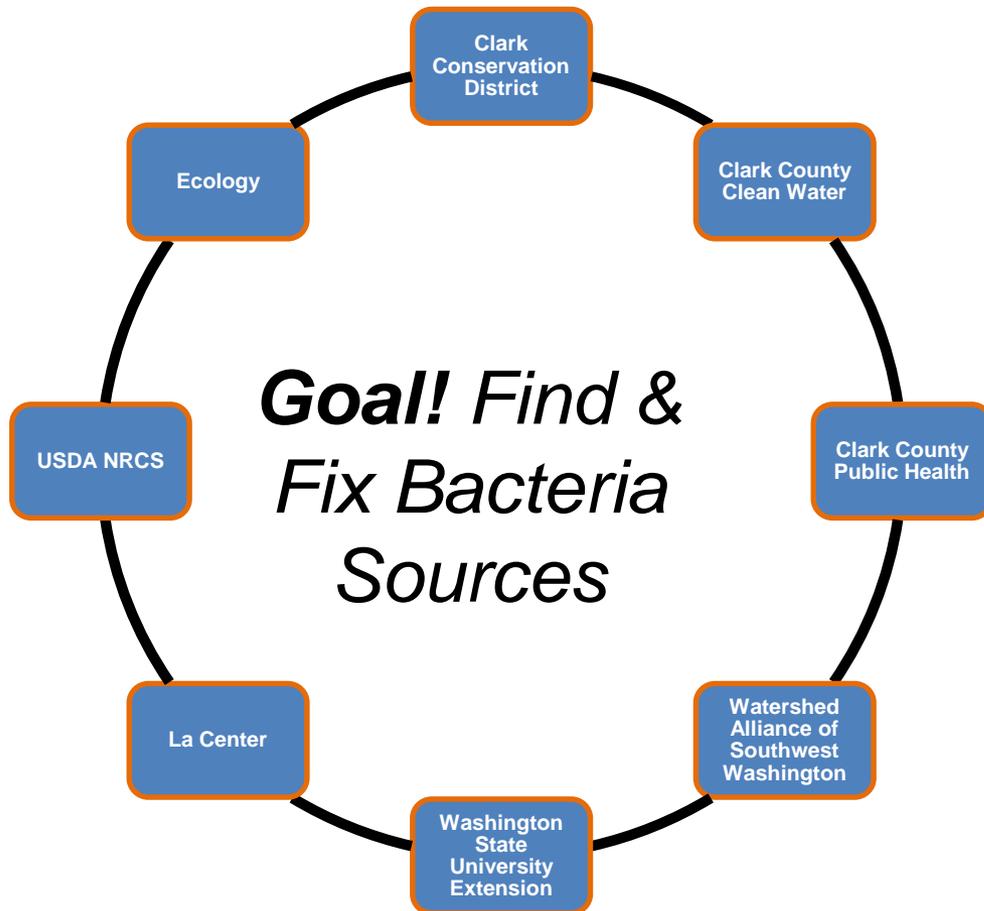
East Fork Lewis River Partnership

- *East Fork Lewis River Source Assessment, 2018*
- *East Fork Lewis River Water Cleanup Plan, 2020*



New! Pollution Identification and Correction Program

Poop Smart Clark!



- Investigative water quality monitoring and source tracing
- Outreach
- Private landowner technical assistance
- Agricultural implementation
- Septic system inspection, maintenance, and repair
- Canines for Clean Water
- Stormwater IDDE

Ecology's recent work in Clark County

- *East Fork Lewis River, 2017-2020*
- ***Burnt Bridge Creek, 2019-2022***
- *Lacamas Creek, 2021-2024*



Discussion



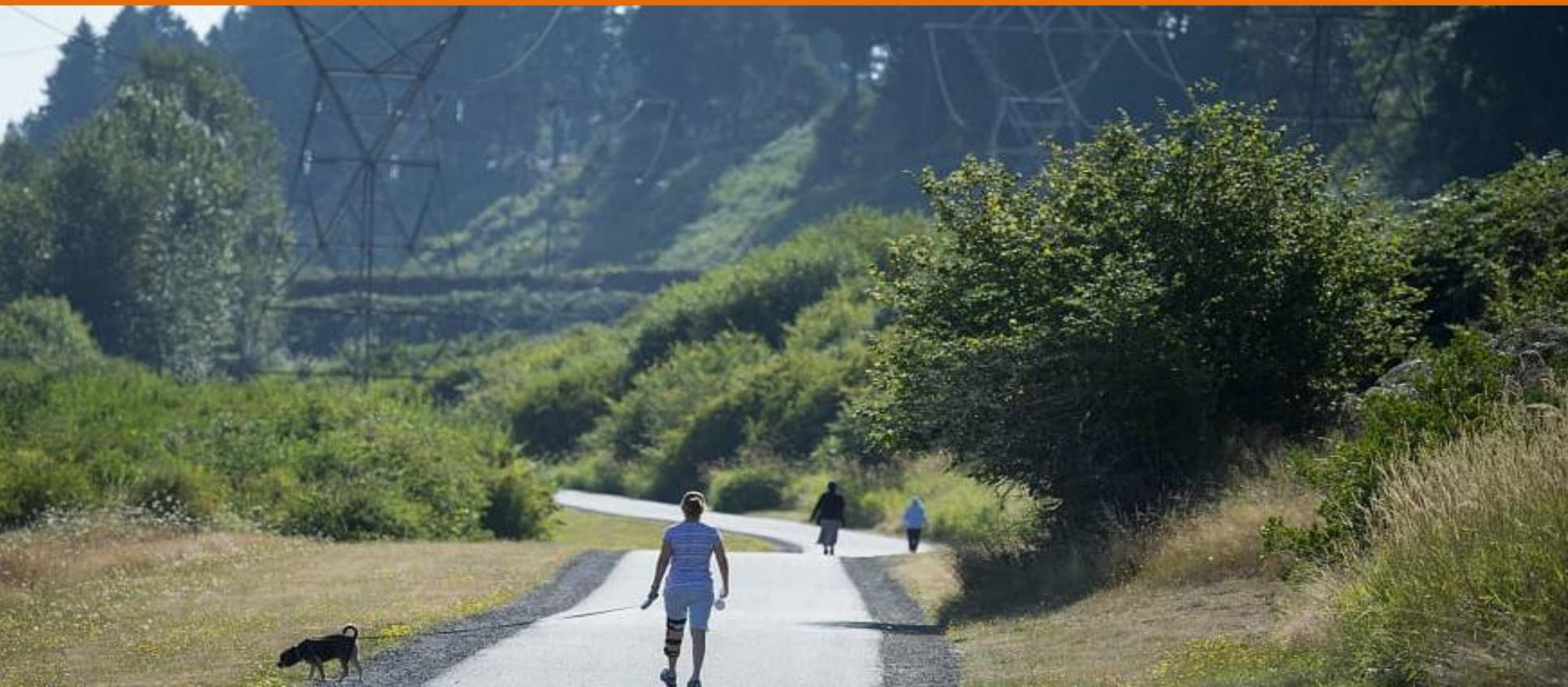
Questions

- 1. What are some expected pollutant sources?***
- 2. Are there priority areas that we should focus?***
- 3. What are some implementation opportunities?***
- 4. Are there active or upcoming projects and programs that can help address water quality impairments?***

Questions

- 5. Are there opportunities to align operations, maintenance, and implementation with water quality priorities?***
- 6. How should we consider point source discharges (facilities) in the Water Cleanup Plan?***
- 7. What are some challenges and limitations?***

Next Steps



DRAFT Timeline

- **February 2021:** Burnt Bridge Creek Kickoff.
- **June 2021:** Complete research, information gathering, stakeholder engagement, and public involvement.
- **December 2021:** Complete Draft Burnt Bridge Creek Water Cleanup Plan.
- **January 2022:** Draft Plan for internal review and comment.
- **February 2022:** Draft Plan for external review and public comment.
- **Spring 2022:** Complete public comment period and address comments.
- **Summer 2022:** Final Burnt Bridge Creek Water Cleanup Plan published.

Stakeholder Engagement

- Key stakeholders.
- Public involvement.
- Burnt Bridge Creek Partnership.



Logistics

- Meeting frequency.
- Communication preferences.
 - Email
 - Website
 - Ezview
 - Annual Reports

East Fork Lewis River Partnership

East Fork Lewis River
Partnership
for clean water



[Return to Department of Ecology website](#) | [East Fork Lewis River webpage](#) | [East Fork Lewis River Watershed Bacteria and Temperature Source Assessment Report](#) | [Learn more about the East Fork Lewis River Partnership today!](#)
[If you see something, say something! Report environmental complaints online.](#)

Announcements

- Review the [2020 East Fork Lewis River Partnership Annual Report](#).
- [Response to Public Comments](#) on *DRAFT East Fork Lewis River Water Cleanup Plan*.
- Download: [DRAFT East Fork Lewis River Water Cleanup Plan, 2020](#).
- Download: [Presentation](#) on East Fork Lewis River Water Cleanup Plan.
- News Article: [East Fork partnership draft cleanup plan released.](#)



Information to be developed

- **Implementation priorities, goals, and actions.**
- **Milestones, targets, and implementation timeline.**
- **Criteria to measure progress.**
- **Cost estimates for implementation.**
- **Public education and outreach strategy.**
- **Monitoring plan – investigative and effectiveness.**
- **Implementation tracking.**

Final Questions?



Burnt Bridge Creek Kickoff Meeting

Source Assessment and TMDL Alternative Restoration Plan

Devan Rostorfer

Water Quality Specialist

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360-409-6693

