



MCLANE CREEK & BLACK LAKE BASINS

WATER QUALITY WORKSHOP

Thurston County Long-Range Planning & TRPC April 9, 2014

Tonight's Agenda

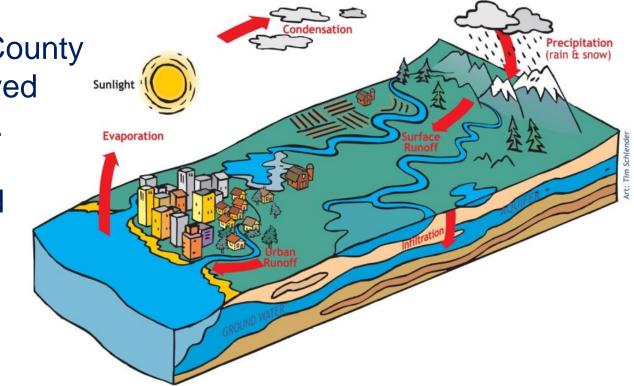
- Welcome
- Presentation: Guiding Growth –
 Healthy Watersheds Project
 - Allison OsterbergThurston County Long-Range Planning
 - McLane Creek Basin
 - Black Lake Basin
- Table Displays



Guiding Growth – Healthy Watersheds Project Background

Thurston County is one of the fastest growing in Western Washington – How do we best protect water resources as our region grows?

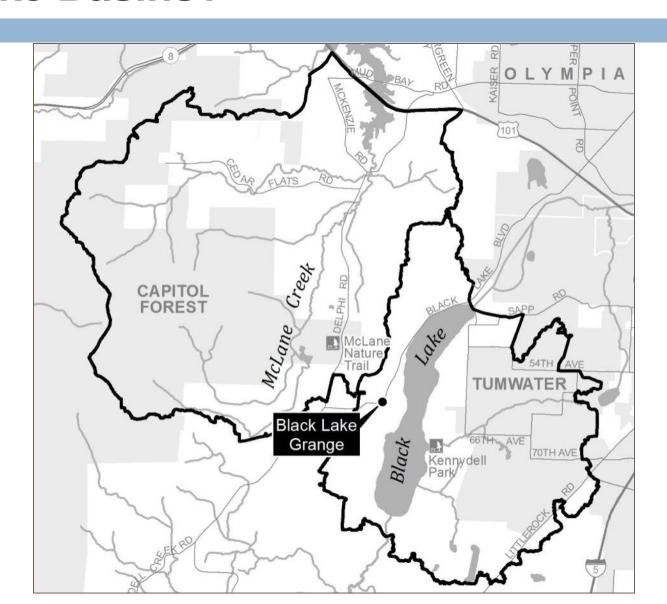
 2009: Thurston County and TRPC received a grant from EPA to conduct watershed-based planning



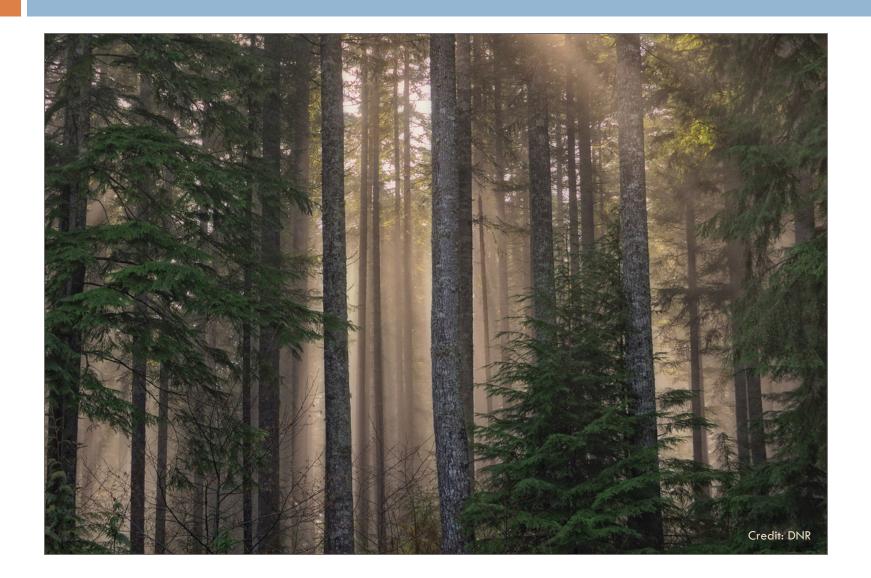
Guiding Growth – Healthy Watersheds Project Background

- Assessed current conditions for 69 basins
- April 2013: Selected 3 basins for focus
 - McLane Creek
 - Black Lake
 - Woodard Creek (March 12 workshop)
- Currently gathering information and conducting analyses on each basin

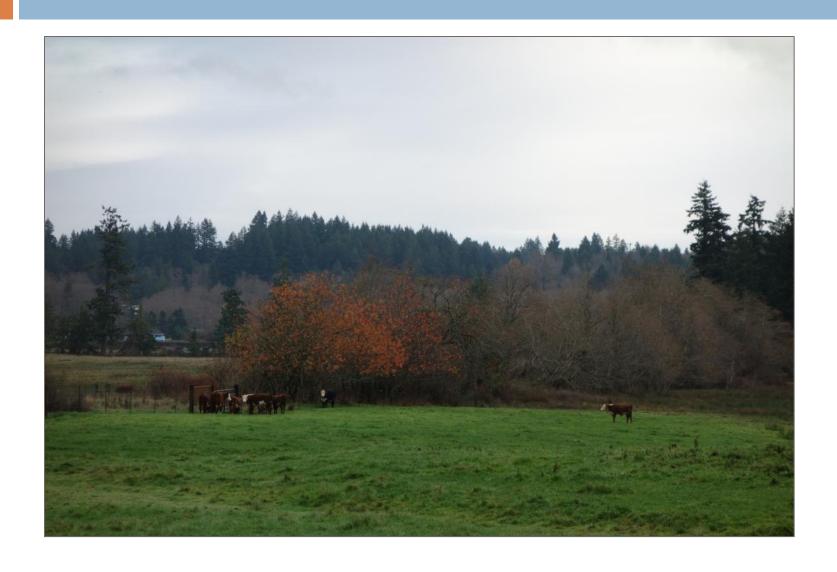
Where are the McLane Creek and Black Lake Basins?











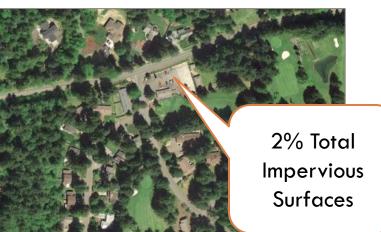


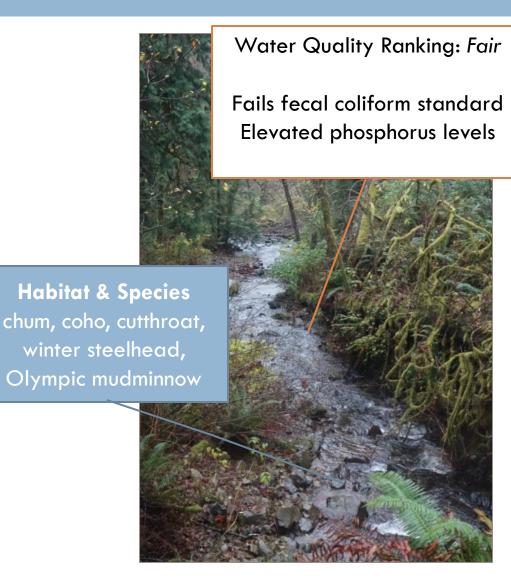
- □ ~ 7,000 acres
- McLane, Swift, Cedar Flats, Beatty creeks discharge into Eld Inlet
- Jurisdiction
 - Rural Thurston County
 - Capitol Forest & McLane Creek Nature Trail
- Mix of forestry, agriculture, and residential land uses



What is the current condition of McLane Creek Basin?







What are the water resource concerns in McLane Creek Basin?

- Loss of tree cover
- Water flow and quality
- Riparian corridors & tree cover
- Population growth & development





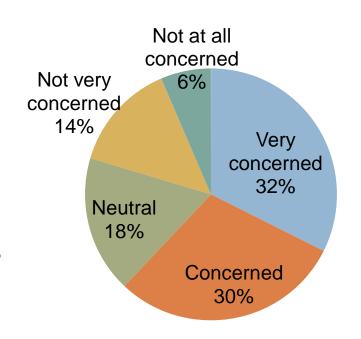


- Summer 2013: Public survey sent by mail
- Received over 100 responses
- High level of concern about water quality

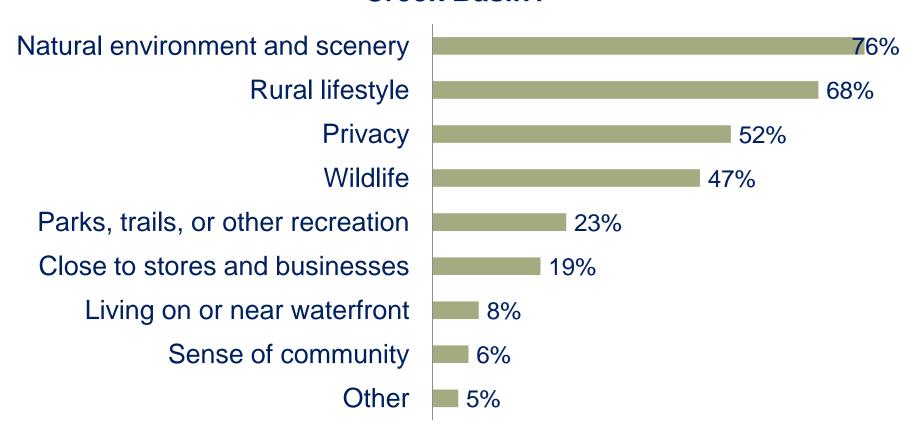
Important:

- Clean drinking water
- Puget Sound WQ
- Healthy salmon runs
- Private property rights
- Preserving working forests and farms

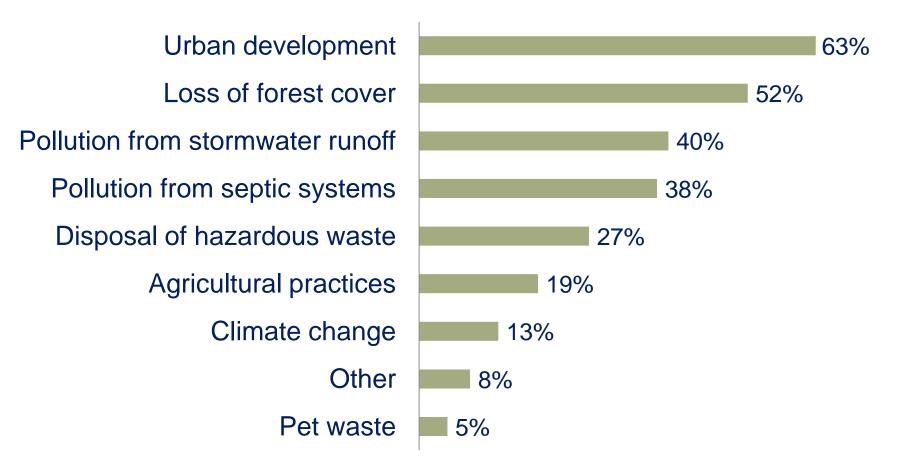
How concerned are you about water quality in McLane Creek Basin?



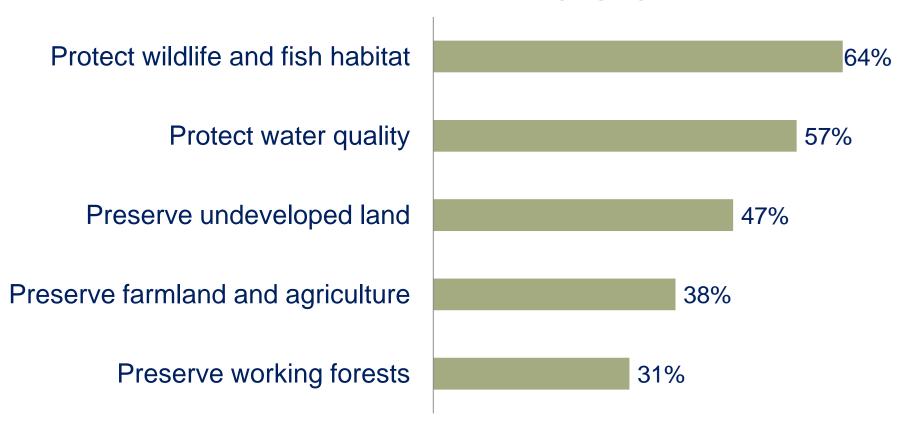
What do you value most about living in the McLane Creek Basin?



What are the greatest risks to water quality in McLane Creek Basin?



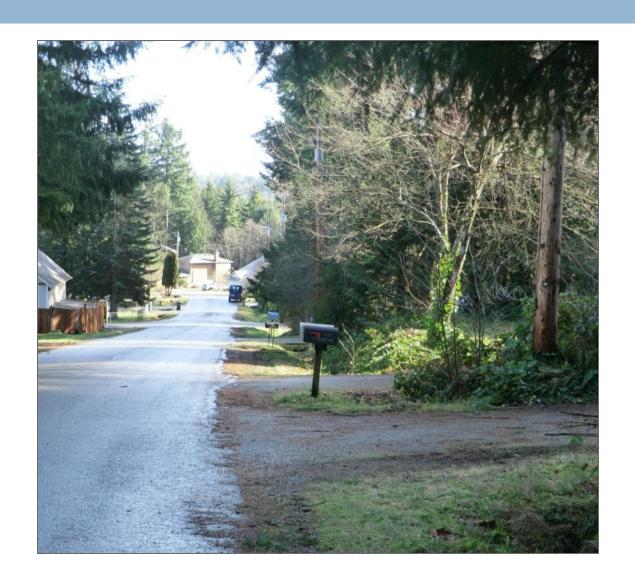
What should be addressed in a watershed plan for McLane Creek Basin? (Top 5)









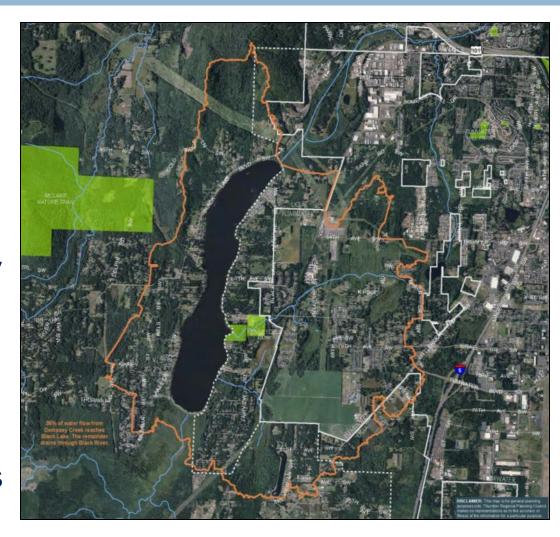




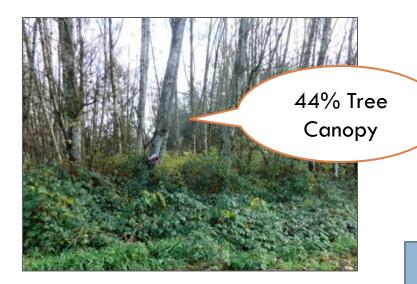
~ 5,000 acres
 (additional area
 occasionally drains to
 Black Lake)

Jurisdiction

- Rural Thurston County
- Tumwater City and UGA
- Low density residential land use, open space and parks



What is the current condition of Black Lake Basin?



8% Total Impervious Surfaces Water Quality Ranking: Fair

Elevated nutrient levels; blue-green algae blooms in lake

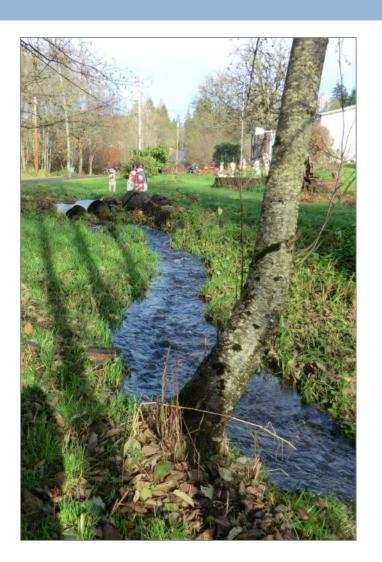
Fish Pond Creek fails fecal coliform standard



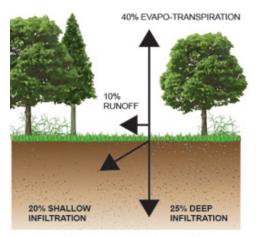
What are the water resource concerns in Black Lake Basin?

- Population growth & development
- Water quality and algal blooms
- Nuisance aquatic species
- Shoreline vegetation & tree cover

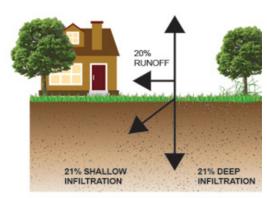




How will future development affect Black Lake Basin?

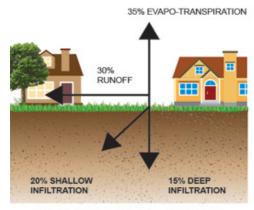


NATURAL GROUND COVER

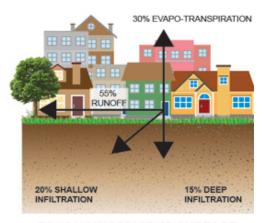


36% EVAPO-TRANSPIRATION

10-20% IMPERVIOUS SURFACE



35-50% IMPERVIOUS SURFACE



75-100% IMPERVIOUS SURFACE

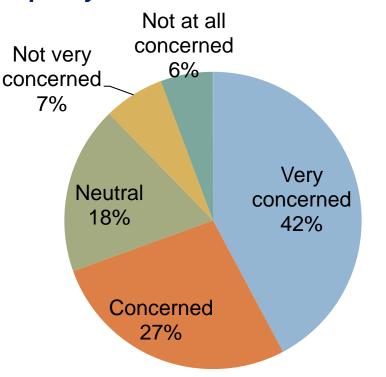
SOURCE: (GUIDANCE SPECIFYING MANAGEMENT MEASURES FOR SOURCES OF NONPOINT SOURCE POLLUTION IN COASTAL WATERS, 1993) AS SHOWN IN (ARNOLD, 1996).

- Summer 2013: Public survey sent by mail
- Received 340 responses
- High level of concern about water quality

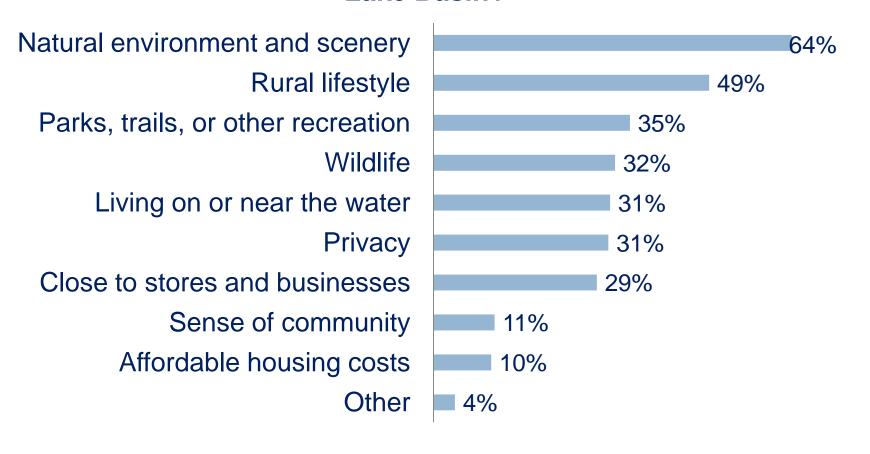
Important:

- Clean drinking water
- Puget Sound WQ
- Swimmable lakes and streams
- Private property rights
- Healthy salmon runs

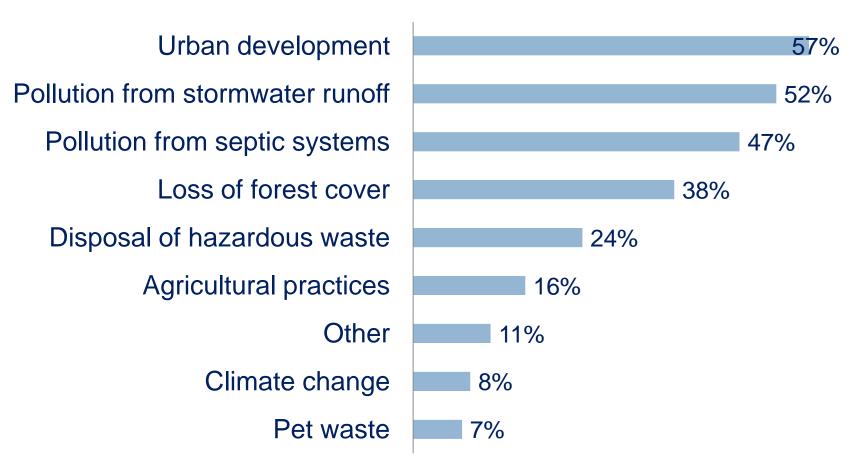
How concerned are you about water quality in Black Lake Basin?



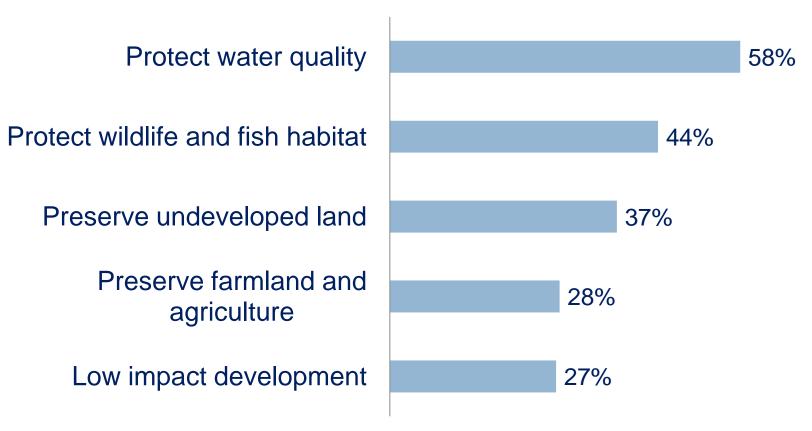
What do you value most about living in the Black Lake Basin?



What are the greatest risks to water quality in Black Lake Basin?



What should be addressed in a watershed plan for Black Lake Basin? (Top 5)



Alternative Land Use Scenarios

Historic Conditions

Forested, with some prairie and wetlands

Current Conditions

Current development, impervious surfaces, and stormwater

3. Planned Future Trend

Current regulations carried out into the future

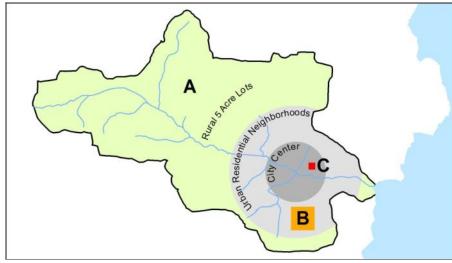
4. Alternative Futures

- Changes to land use and development regulations
- Restoration of riparian areas and wetlands
- Stormwater retrofits in older neighborhoods

Guiding Growth – Healthy Watersheds Potential Management Options

 Changes to zoning and Urban Growth Area (UGA) boundary





Guiding Growth – Healthy Watersheds Potential Management Options

 Changes to development regulations (including low impact design standards)



Guiding Growth – Healthy Watersheds Potential Management Options

- Restoration of wetlands and vegetation along waterbodies
- Long-term preservation of sensitive lands
- Stormwater retrofits





Guiding Growth – Healthy Watersheds Next Steps

Tonight

Gather feedback on water resource concerns and potential management options

Develop recommended policy changes
 Spring/Summer 2014



Guiding Growth – Healthy Watersheds Contact

Questions? Comments?

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