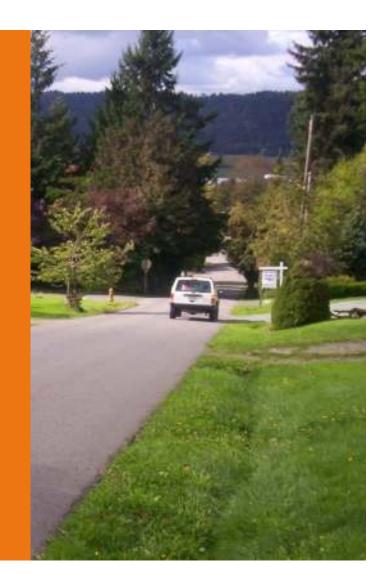
Watershed-Based Planning Project

City of Duvall Open House March 18, 2015







What we will cover today

- Intro to the Duvall Watershed Planning Project
- Steps completed so far
- Why this is important for Duvall
- Q&A, followed by Public Comment



Project Background

Urban flooding

Grow in the right places

Sensitive areas protection

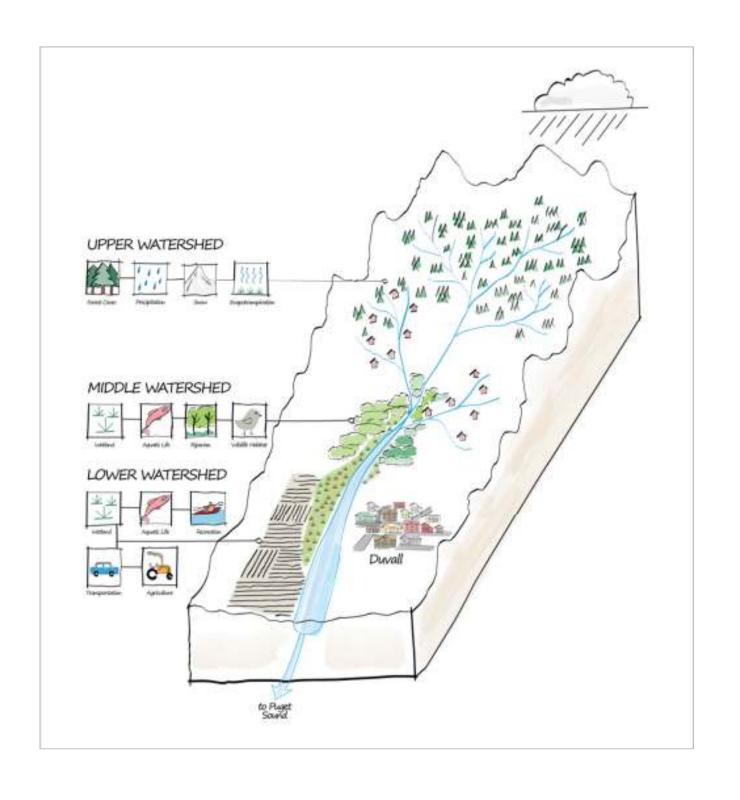




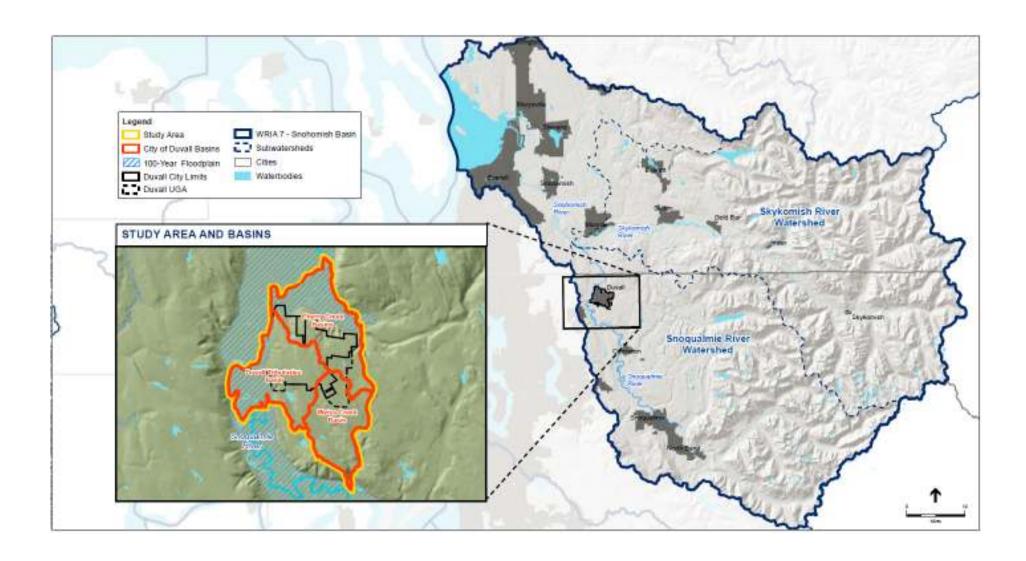
Puget Sound Watershed Characterization

- Watersheds drain to Puget Sound
- Coarse-scale
- Key watershed processes
 - Water flow
 - Water quality
 - Habitat

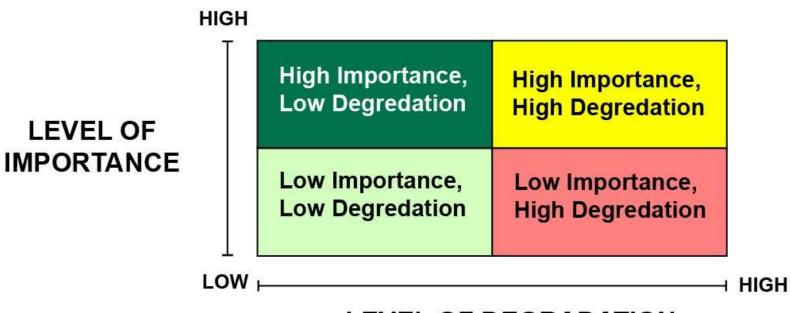






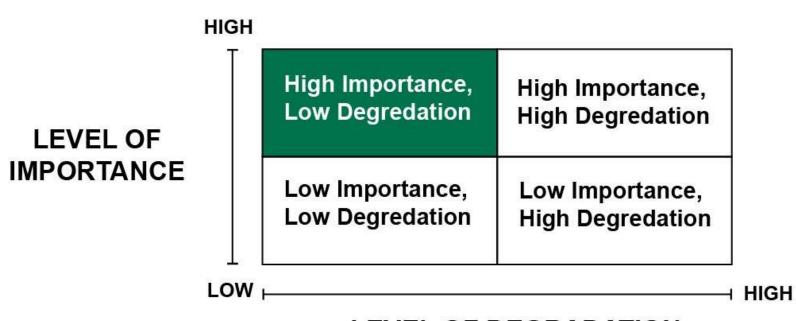






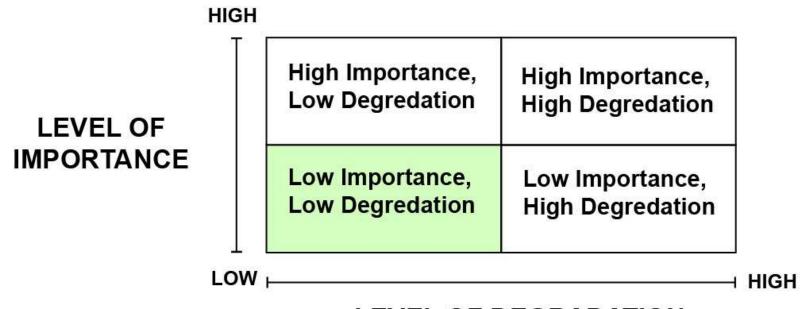
LEVEL OF DEGRADATION





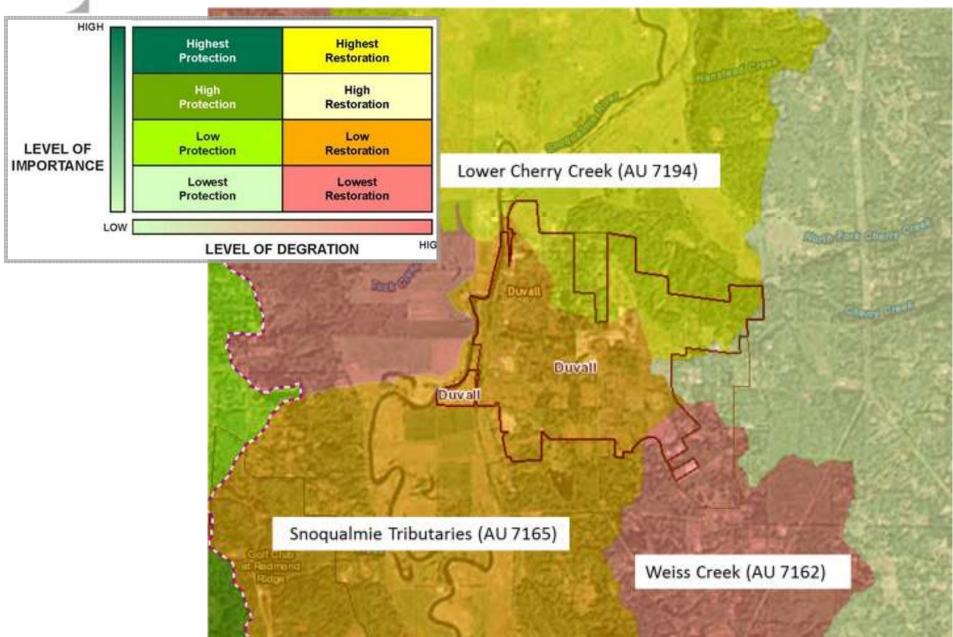
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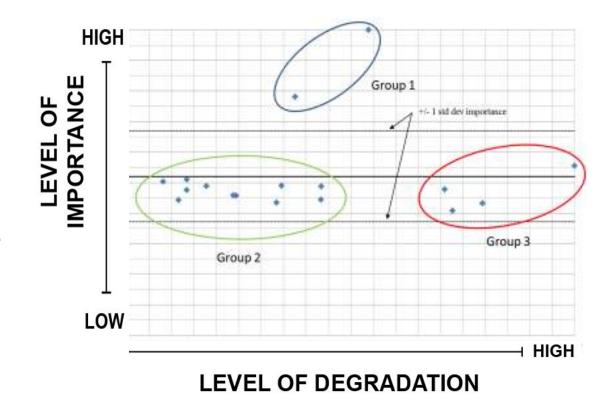






Duvall Watershed Characterization

- Basins into subbasins
- Refined indicators
 - Storage features
 - Forest cover
 - Impervious surface cover
 - Water quality measures
 - Aquatic habitat





Management Groups

- 1. Protect/Restore
- 2. Highest Conservation
- 3. Moderate Conservation
- 4. Lowest Conservation
- 5. Urban Development

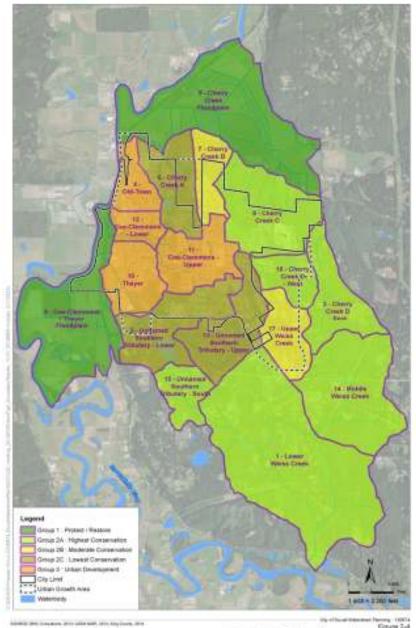
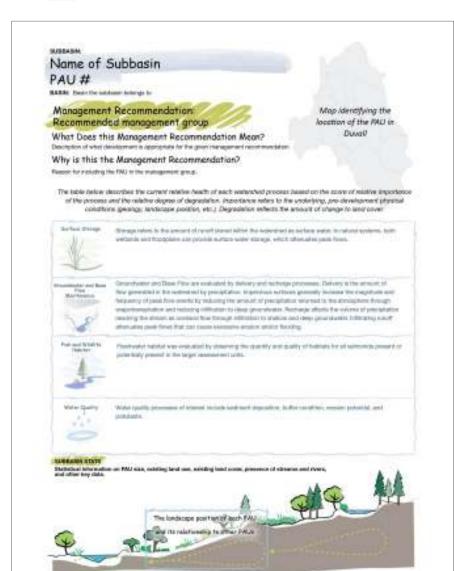


Figure 2-1
Secondary Results - Subbasin Wanagamary Recommendations

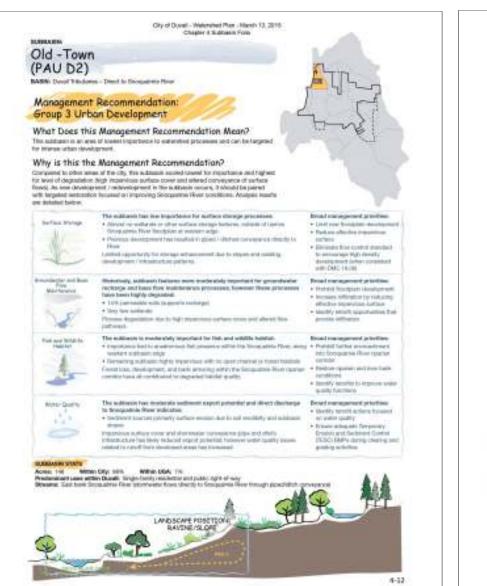


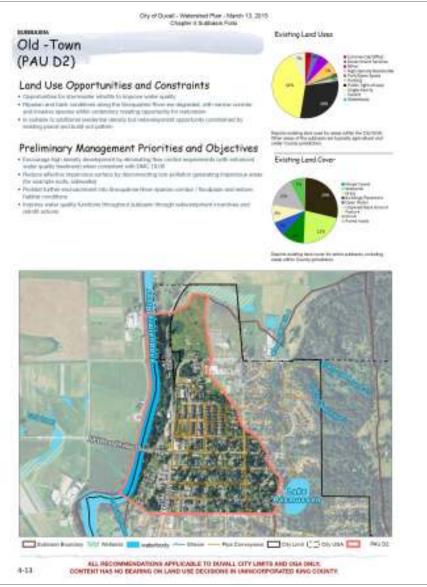




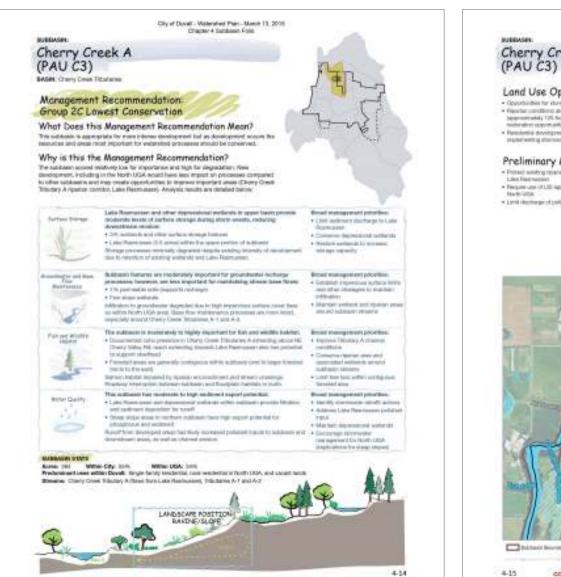


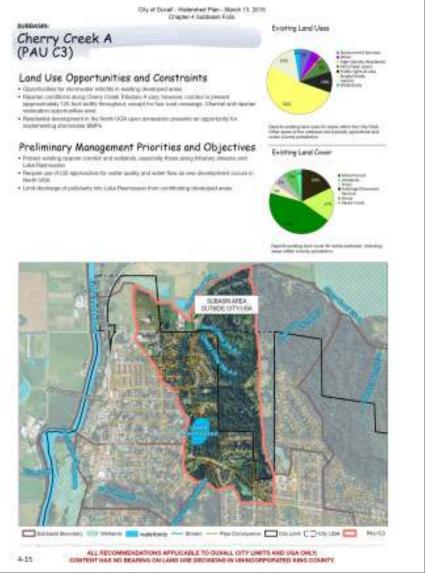
Urban Development (Old Town)





Lowest Conservation (North UGA)





Moderate Conservation (South UGA-R)



City of David - Welcontrol Platt - March 12, 2013 Chapter & Subbasin Folio

BUREASEN

Upper Weiss Creek (PAU W3)

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Land Use Opportunities and Constraints

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- Buildnam is white southy UGAT, any Artist community and discusse development proprietary artists for the flag New York and Reflect Read combine.

Preliminary Management Priorities and Objectives

- Limit Edwardson dendrigment to practicating that them. Name and Subject House, and associate how because of beginning authors assisted committee.
- Require our of LD approaches for uniter him and shifter duality wherever development occurs.
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Existing Land Use



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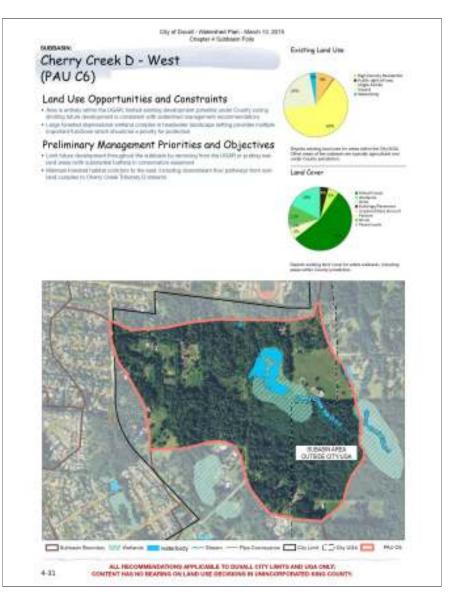
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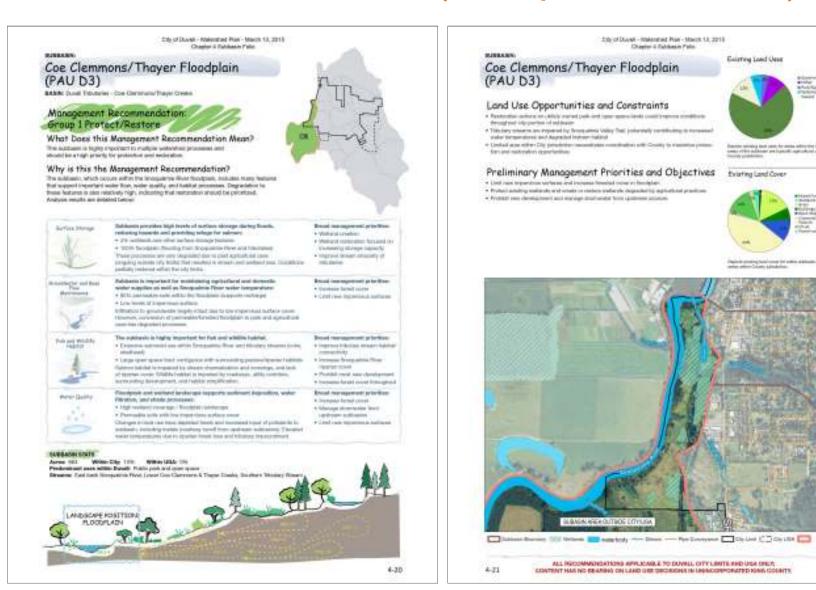


Highest Conservation (North UGA-R)





Protect/Restore (Snoqualmie River)





Goals, Policies, and Implementation

- Goals and policies to be included in revised Comprehensive Plan
- Implementation actions to achieve watershed goals
 - Development Standards
 - Stormwater
 - Sensitive Areas

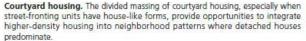


Implementation for Development Standards – Increase residential densities in subbasins

prioritized for development

Where would this apply?

Subbasin management group 3









Recent courtyard housing examples with house-like forms at street frontages

1920s courtyard apartments. Form of end units reflects neighborhood context of detached houses.



Implementation for SW – **Define and Require LID BMPs**

Where would this apply?

City-wide, with specific LID BMPs required for appropriate subbasins based on infiltration capacity and other considerations



- Preservation of Existing Trees and Vegetation
- Composting and Mulching
- **Natural Yard Management** (No Pesticides or Fertilizers)
- (5) Retain/Restore Native Plantings as Lawn Alternatives
- (6) Rainwater Harvesting/Cisterns
- Green Roofs
- B Permeable Pavement
- Splash Blocks for Roof Downspouts
- Soil Amendments

Courtesy of Rain Garden Handbook for Western Washington (WSU / Ecology, 2013)

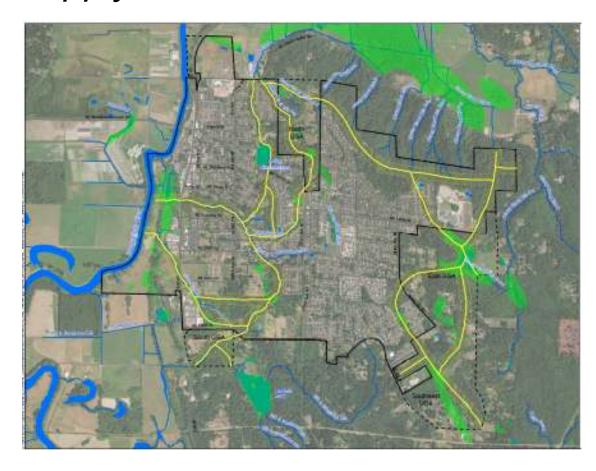


Implementation for Sensitive Areas – **Define and protect habitat corridors**

Where would this apply?

City-wide

(along mapped habitat corridors)

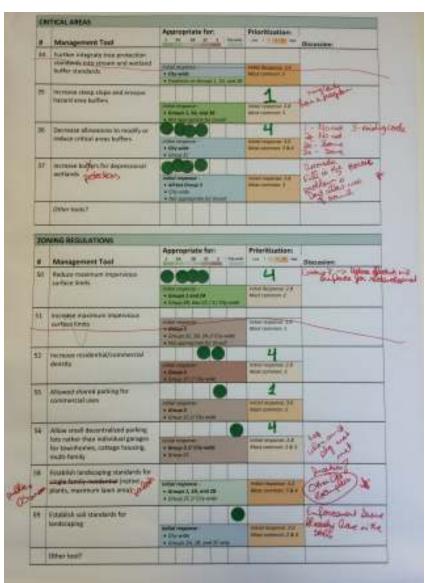




Outreach Efforts



Continues with this Open House





Next Steps

- Final draft of Watershed Plan
 Available for review before end of March
- Planning Commission and City Council Review
- Updates based on review and public comment
- Draft regulations (March June)
- Finalize by June 2015