



Storm and Surface Water Utility Projects – SSWAB Subcommittee Meeting

Nate Ensley, PE
Senior Water Resources Engineer

Agenda

- Purpose and SSWAB's Role
- Recap the purpose of our Stormwater Utility Projects
- Provide project overviews and solicit feedback
- Solicit other feedback from subcommittee members

Purpose and SSWAB's Role

- Purpose: County staff will provide an update of current capital projects under way (scoping, design, or construction) for SSWAB's information.
- SSWAB Subcommittee Role: Advisory in nature – feel free to ask clarifying questions, provide feedback on any of the projects for staff to consider.

Stormwater Utility Projects

- Designed to reduce localized flooding and improve water quality in Thurston County
- Selected to meet state/federal requirements and reviewed by the county Storm and Surface Water Advisory Board



Stormwater Utility Projects

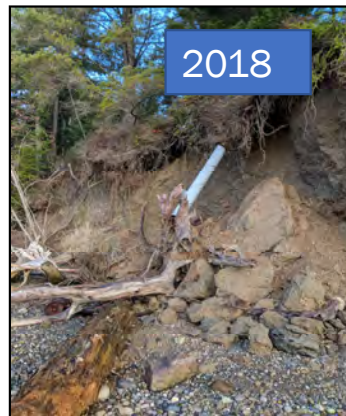
Construction Completed in 2022

Manzanita Road Conveyance

- Repaired stormwater outfall
- Rate funded
- Completed within Approved Budget (\$188k)



2007



2018



June 2022 (Retrofit Complete)

Stormwater Utility Projects

Currently under Construction

Boston Harbor Road NE Stormwater Conveyance & Outfall Improvements

- Replace failing outfall structure
- Decrease flooding on Boston Harbor Road NE that inundates private property/structures
- Roadside Ditches and Culvert improvements
- Storm and Surface Water Utility Rate funded
- Construction Contract Amount: \$1.2M

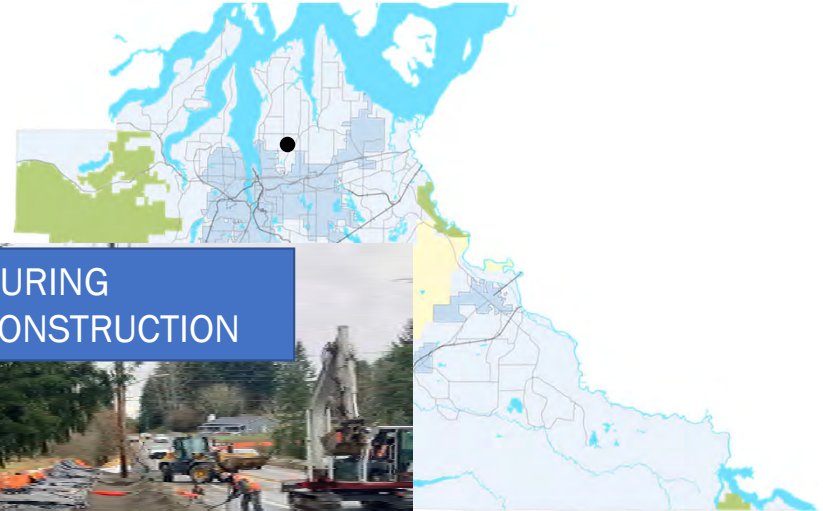


Stormwater Utility Projects

Currently under Construction

Woodard Creek Retrofit Site 1

- Part of a series of Woodard Creek Projects to improve water quality in the system discharging to Henderson Inlet
 - Woodard Creek is listed on state list of impaired and threatened waters – fecal, dissolved Oxygen, and pH.
- Installation of a stepped bioretention swale and two proprietary treatment devices
- Cost Sharing via Department of Ecology Grant
- Construction Contract Amount: \$1.1M

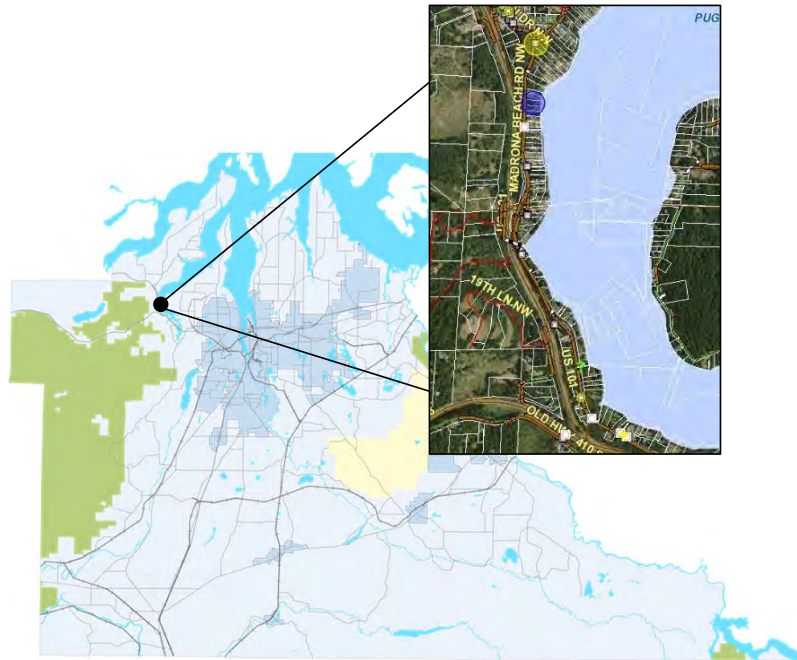


Stormwater Utility Projects

Construction in 2023

Madrona Beach Road NW Vicinity Retrofits

- Replace failing stormwater infrastructure and Improve Water Quality
- 3 locations along roadway (2 of which are partially funded by WSDOT)
- Construction Budget: Approximately \$200k

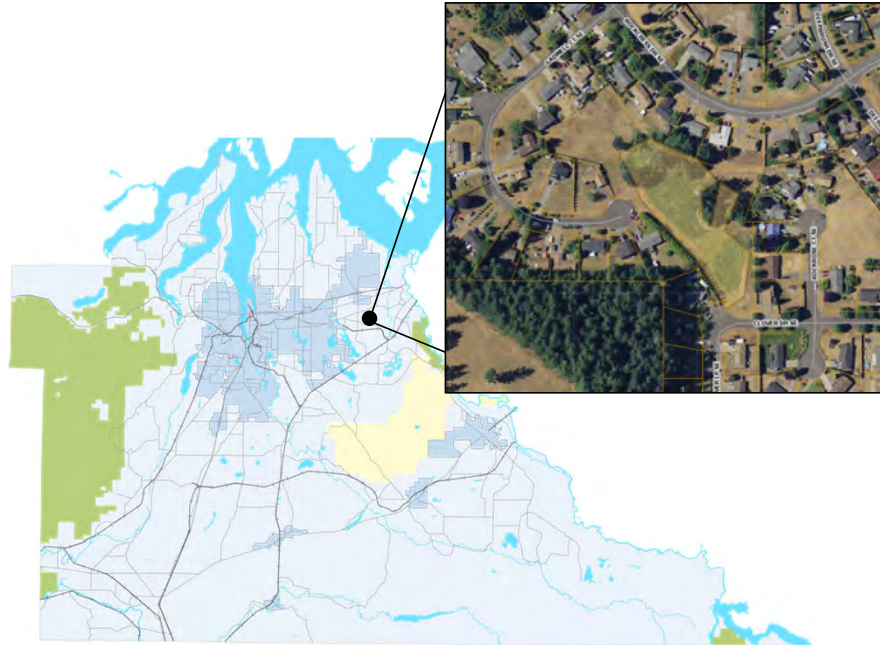


Stormwater Utility Projects

Currently Under Design

Meadows Subdivision Pond 4C Retrofit

- Upgrade Stormwater Outlet Control Structures for 5 Ponds in the Meadows, Meadows Commons, and the Ridge Subdivisions in East Lacey
- Increased flow control has the potential to reduce water quality impacts in McCallister Creek
- Cost Sharing via Department of Ecology Grant
- Estimated Construction Cost: \$716K

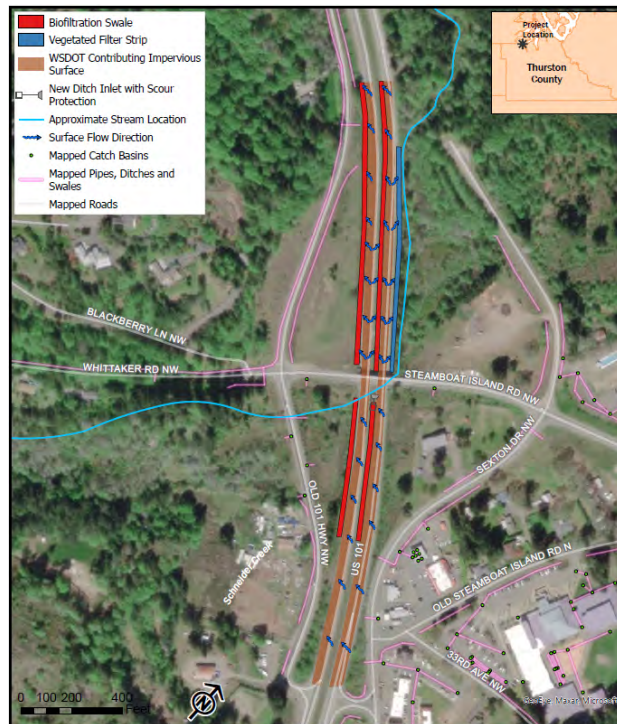


Stormwater Utility Projects

Currently Under Design

WSDOT US101 @ Schneider Creek

- US101 near Steamboat Island Rd.
- Schneider Creek: high value natural resource on the 303(d) list for bacteria in lower reach.
- Treats runoff prior to discharging to Schneider Creek via biofiltration swales and vegetated filter strips
- Improves stormwater runoff quality to Woodard Creek Basin
- Utility Rate funded (WSDOT Fees)
- Estimated Cost: \$618k

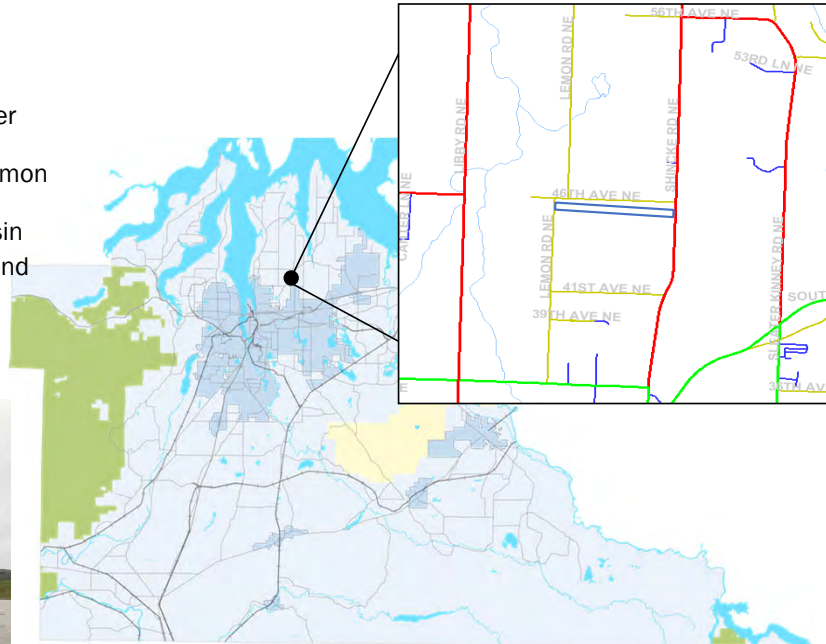


Stormwater Utility Projects

Currently Under Design/Re-Scoping

Woodard Creek Retrofit Site 4

- Part of a series of Woodard Creek Projects to improve water quality (same objectives as Site 1)
- Installation of a bioretention swales along 46th Ave and Lemon Rd.
- Improves stormwater runoff quality to Woodard Creek Basin
- Staff is evaluating project consolidation with Lemon Rd Pond
- Rate funded, potential Grant opportunity
- Estimated Cost: TBD pending project consolidation



Stormwater Utility Projects

Currently Under Scoping

Littlerock Area Stormwater Retrofit

- Install Biofiltration Swales and Bioretention Areas around Littlerock Elementary School
- Treat runoff prior to discharging to a tributary of the Black River
- Back river is listed for pH, has a TMDL for Dissolved Oxygen, temperature, and Bacteria
- Rate funded, potential Grant opportunity
- Estimated Cost: \$520,000

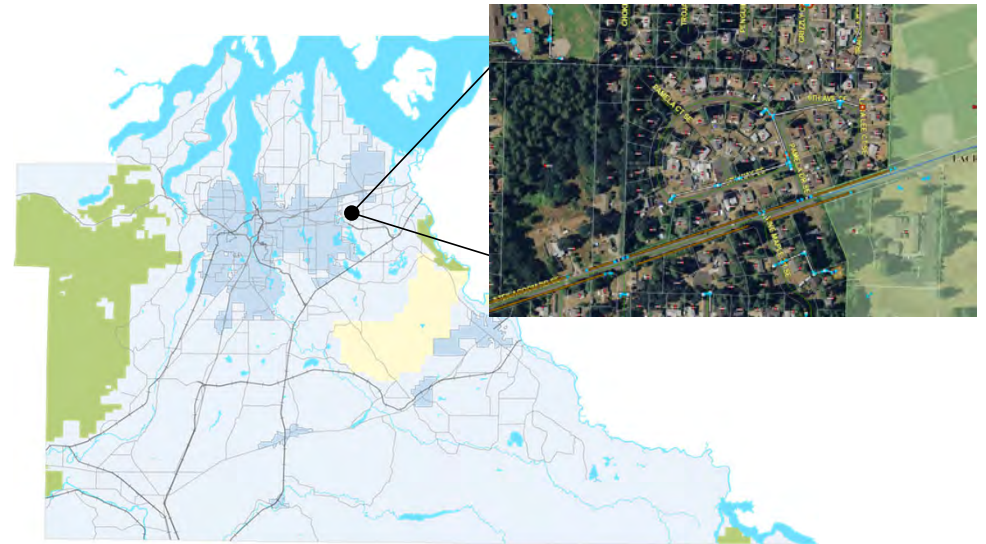


Stormwater Utility Projects

Currently Under Scoping

Sherwood Firs Stormwater Retrofit

- Failing Drywells have resulted in surface flooding over the years.
- Evaluate new underground treatment and infiltration facility
- Rate funded
- Estimated Cost: \$120,000 (note that this number is likely to change upon completion of scoping)



Stormwater Utility Projects

Currently Under Scoping

Cedar Shores Stormwater Retrofit

- Improve and expand existing 30-year-old stormwater pond attempt to meet current water quality and flow control standards.
 - Could reduce beach erosion downstream of the facility, which could improve water quality in the bay.
- Rate funded, grant opportunity
- Estimated Cost: \$440,000 (note that this number is likely to change upon completion of scoping)

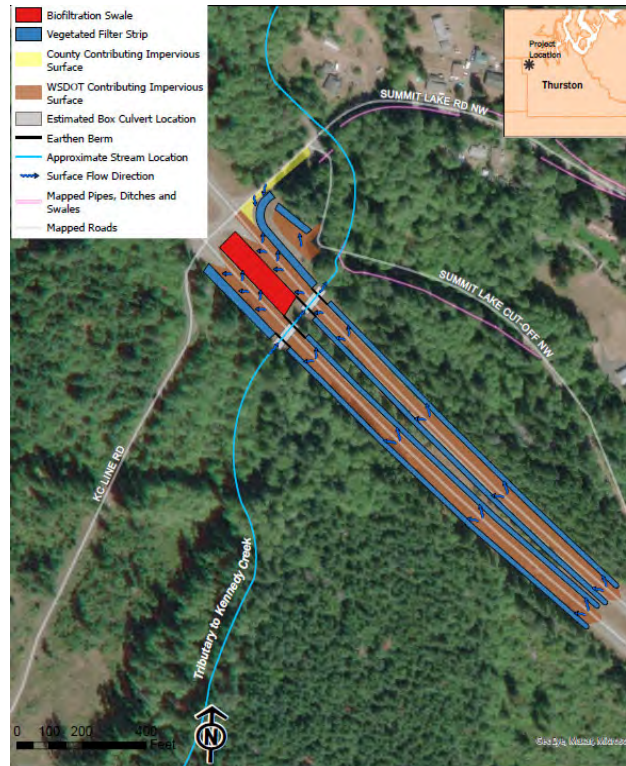


Stormwater Utility Projects

Future Project

WSDOT State Route 8

- Treat highway runoff from SR8, as well as Summit Lake Road and an adjacent Park-and-Ride using Biofiltration Swales and Vegetated Filter Strips before flows enter Kennedy Creek
- Kennedy Creek has failed water quality standards for fecal coliform and TMDL's for tributaries to Totten, Eld, and Little Skookum Inlets identifies fecal coliform bacteria concentrations in late summer as a problem.
- Rate funded (WSDOT Fees)
- Estimated Cost: \$810,000



Stormwater Utility Projects

REVENUES FOR PROJECTS				2023	2024	2025	2026	2027	2028	6-Yr. Total
Fund Source										
Stormwater Utility Rates				\$557,500	\$3,172,000	\$1,140,000	\$845,000	\$145,000	\$125,000	\$5,984,500
Grants				\$427,500	\$0	\$0	\$0	\$0	\$0	\$427,500
TOTALS				\$985,000	\$3,172,000	\$1,140,000	\$845,000	\$145,000	\$125,000	\$6,412,000
EXPENDITURES FOR PROJECTS										
Project Name	Project Number (hidden)	Fund Source	Urban Growth Area	2023	2024	2025	2026	2027	2028	6-Yr. Total
Boston Harbor Road NE Stormwater Conveyance and Outfall Improvements	27W15	SUR	Rural Thurston County	\$15,000						\$15,000
Woodard Creek Retrofit - Site 1	27W71	SUR/Grant	City of Olympia	\$10,000						\$10,000
Manzanita Road Conveyance	27W88	SUR	Rural Thurston County	\$10,000						\$10,000
Meadows Subdivision Pond 4C Retrofit	27W17	SUR/Grant	City of Lacey	\$150,000	\$400,000	\$10,000				\$560,000
Madrona Beach Road NW Vicinity Retrofits	27W16	SUR	Rural Thurston County	\$150,000	\$10,000					\$160,000
Woodard Creek Retrofit - Site 4	27W07	SUR	Rural Thurston County	\$250,000	\$1,325,000	\$15,000				\$1,590,000
Lemon Road Pond	34W05	SUR	City of Lacey	\$100,000	\$672,000					\$772,000
WSDOT US101 Schneider Creek		SUR/WSDOT	Rural Thurston County	\$200,000	\$450,000	\$10,000				\$660,000
Littlerock Area Stormwater Retrofit		SUR	Rural Thurston County		\$110,000	\$400,000	\$10,000			\$520,000
Cedar Shores Stormwater Retrofit		SUR	Rural Thurston County		\$80,000	\$350,000	\$10,000			\$440,000
Sherwood Firs Stormwater Retrofit		SUR	City of Lacey			\$30,000	\$100,000	\$10,000		\$140,000
WSDOT SR8 Kennedy Creek		SUR/WSDOT	Rural Thurston County			\$200,000	\$600,000	\$10,000		\$810,000
Stormwater Facility Improvement Program 2022-2023	34W07	SUR	Countywide	\$50,000						\$50,000
Stormwater Facility Improvement Program 2024-2028					\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Stormwater Land Acquisition/Conservation Future Program 2022-2023	27W80	SUR	Countywide	\$50,000						\$50,000
Stormwater Land Acquisition/Conservation Future Program 2024-2028		SUR	Countywide		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
TOTALS				\$985,000	\$3,172,000	\$1,140,000	\$845,000	\$145,000	\$125,000	\$6,412,000

Budget Cycle Color Coding Legend	
	2022-2023 Bi-annual approved budget
	2024-2025 anticipated biennial budget
	2026-2027 anticipated biennial budget
	2028-2029 anticipated biennial budget
Project Phase Color Coding Legend:	
	Black shading, white font - Design Phase
	Medium grey shading, bold font - construction Phase
	Light grey shading, normal font - closeout Phase



Feedback Solicitation

- Questions?
- Feedback and suggestions?