

# WaterWorks Grant Program

Sound investments in clean water and community



King County

Department of Natural Resources and Parks  
Wastewater Treatment Division

Presented to the

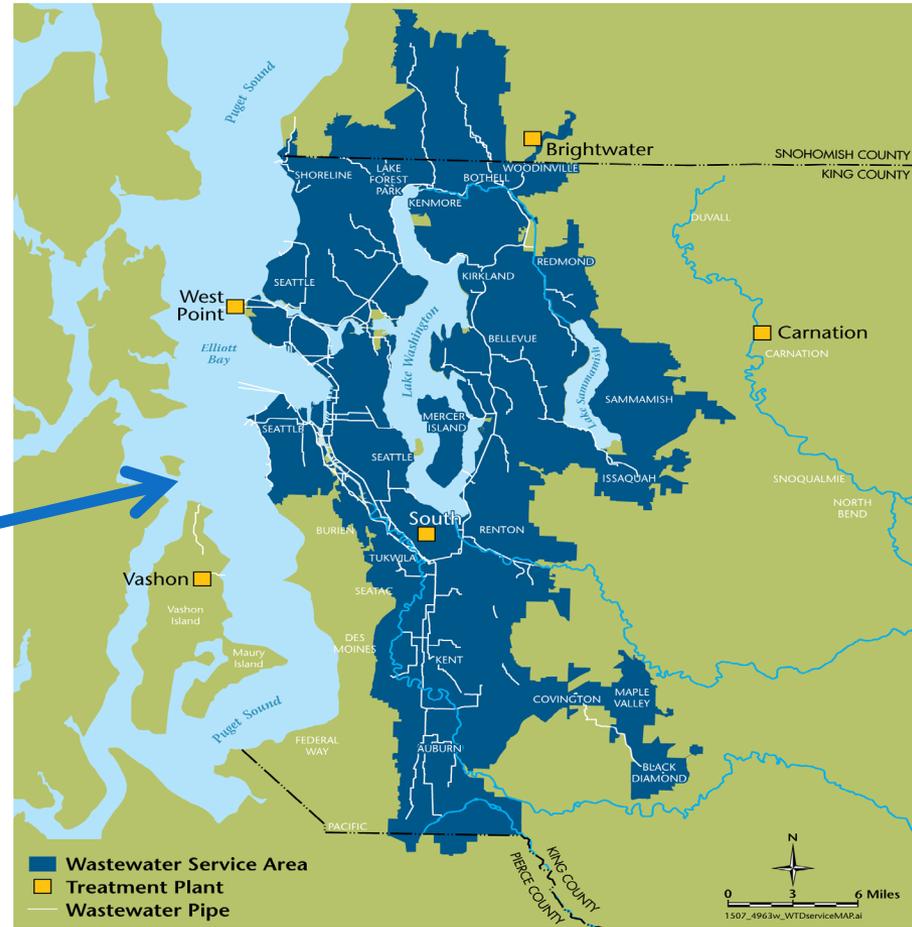
Metropolitan  
Water Pollution  
Abatement  
Advisory  
Committee

10/23/19



# Goal:

# Improve water quality in the WTD service area



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Department of  
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**Wastewater  
Treatment Division  
Service Area**

# Additional Benefits

- Build community involvement & stewardship
- Leverage funding



# 2015-2018, WaterWorks has awarded:

**\$7.7 M** for **105**  
**Projects**

green stormwater  
infrastructure  
(raingardens  
& cisterns)



education &  
community  
engagement



research &  
monitoring

stream &  
river bank  
restoration



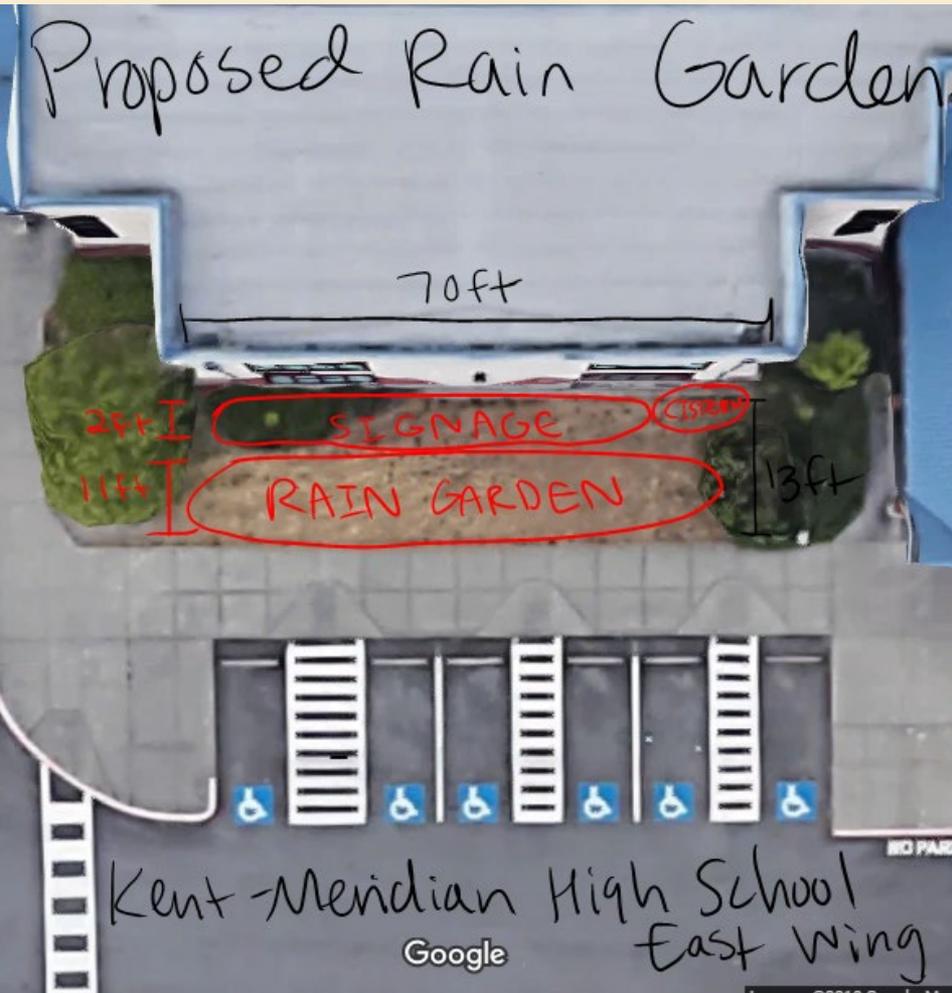
# **WaterWorks Competitive Round 4**

- 28 projects
- \$2,139,500
- Proposed Ordinance 2019-0444 would approve the Grant Ranking Committee recommended project list

# Kent Meridian High School—\$20,000

## Rain Garden Project

green stormwater  
infrastructure  
(raingardens  
& cisterns)



*“What better place to bring awareness of sustainability and water quality than a school?”*

# City of Issaquah—\$170,000

## *Lower Issaquah Creek Stream and Riparian Habitat Restoration*

stream &  
river bank  
restoration



- Additional floodplain (60,000 ft<sup>2</sup>)
- Increase channel complexity
- Reduce sediment & pollutants
- Lower water temperatures & increase dissolved oxygen

# Woodland Park Zoo—\$100,000

## *Stormwater Reuse Feasibility and Design Project with Water Quality Education*

- Identify water reuse options
- Reduce stormwater entering CSO



research &  
monitoring



education &  
community  
engagement



# Other Upcoming Projects—New grantees

## ● Interim CDA – \$70,000

- *Danny Woo Rainwater Harvesting Project*

## ● Beavers Northwest– \$39,000

- *Seattle Parks and Recreation Beaver Management Plan*

## ● Central Area Collaborative– \$75,000

- *Place-keeping with Environmental Justice*

## ● Lake Advocate– \$38,360

- *Water Quality Protection of King County Lakes Using Outreach and Education for Diverse Communities*

## ● Parkview Services– \$111,677

- *Riverton Cascade Affordable Homes*

# Sno-King Watershed Council—\$25,000

*Volunteer Water Monitoring, Outreach, and Education*



research & monitoring



education & community engagement

# ECOSS—\$85,000

## *Spill Kit Incentive Program*



- Provide spill response training to small businesses
- Focus on businesses owned/managed by immigrants, refugees, and people of color
- Staff includes native speakers of 12 languages

# Environmental Science Center—\$75,000

## *Salmon Heroes: Watershed Education and Water Quality Monitoring for Underserved Students*

● Video link:

[https://www.youtube.com/watch?time\\_continue=2&v=pSPCehu-OjQ](https://www.youtube.com/watch?time_continue=2&v=pSPCehu-OjQ)



# Stewardship Partners—\$150,000

## *Equitable Green Stormwater Infrastructure (GSI) Incentives for King County*



green stormwater  
infrastructure  
(raingardens  
& cisterns)



- Financial incentives for voluntary GSI
- Across WTD service area
- Manage 1-2 million gallons/year

# Seattle Public Utilities—\$100,000

## Protect Our Pipes, Phase 2 Outreach

- Follow up on pilot project with UW
- Social marketing campaign
- Clog data
- Outreach to multiple colleges; multi-family buildings

### Previous findings:

- Young adults use more “flushable” wipes



**Previously-funded projects**

**Results!**

# Salmon-Safe—\$42,728

## Salmon-Safe Sammamish

- REI Bellevue Campus will be **Salmon-Safe certified**:

- most stormwater from 36-acre site will be treated via **bioretention planters**
- Over **800 acres** of new development and retrofits managed to Salmon-Safe standards



# University of Washington—\$65,000

## Use of Floating Treatment Wetlands to Reduce Metals and Nutrients in Urban Stormwater: Impacts on Coho Salmon Spawning Mortality



research &  
monitoring



24 hour exposure to three treatments

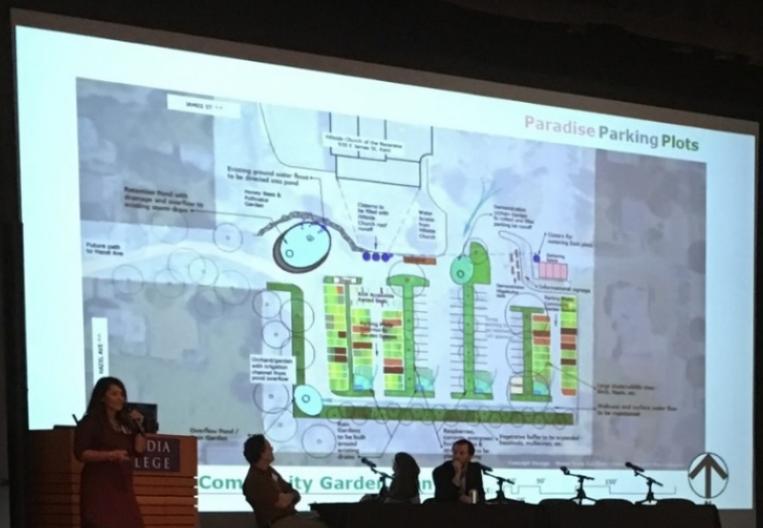
1. Hatchery water – control
2. Treated water – FTWs
3. Untreated water – direct stormwater

Monitored water quality every hour:

- Temperature (~11 – 13 °C)
- Dissolved oxygen (7.8 – 10)
- pH (7 – 7.85)

Monitored fish every hour:

- Fish survival
- Fish behavior
  - inversion
  - gasping
  - bumping



DIA  
LEGE



EXIT

# Questions?



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