

Duwamish Valley Industrial Greening Project

August 2024

Office of Sustainability & Environment



City of Seattle

Overview

- Project background
- Project status
 - Challenges
 - Accomplishments/Solutions
 - 2022-2023 projects
 - 2024 projects



Project Background



Duwamish Valley Program



18 City departments align and coordinate City efforts to advance environmental justice and equitable development.

Project Purpose and Goal

- This funding and this project contribute to achieving our goals and fulfilling our commitments in the DV.
- This work also contributes to the City's urban forestry goals:
 - 10% canopy cover for Industrial Areas; at 4% as of 2021
- Project goal:
 - Identify and implement high-impact greening projects on industrial properties adjacent to residential neighborhoods to improve air quality and health outcomes for Duwamish Valley residents.



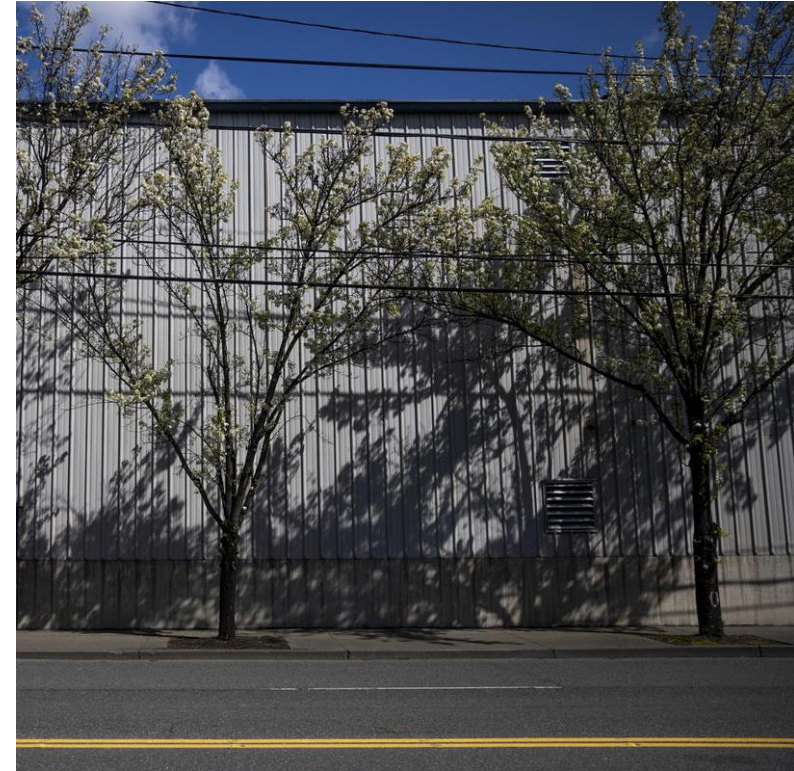
Project Components

- Focus areas: industrial properties adjacent to residential neighborhoods
- Outreach to industrial property owners and managers
- Engage community-based organizations
- Identify high-impact greening projects in these areas
- Execute landowner agreements
- Incorporate a diversity of project types
 - Tree planting
 - Swales/raingardens
 - Green walls/green screens
 - Planter boxes



Trees in Industrial Areas

- Perception that they are not allowed
- They are allowed, and required in specific zones and circumstances
- City goal of achieving 10% canopy cover in industrial areas
- 2023 Industrial and Maritime legislation – LU 10.13:
 - Keep landscaping and street standards to a minimum, except
 - Along selected arterials where installing trees can offset new industrial development impacts
- Industrial zoning standards require trees along designated streets and for certain uses adjacent to residential lots



Project Status



Challenges

- Outreach limitations
 - Extensive and overlapping past outreach
- Property owner level of interest/concerns
 - Understanding the need for and benefits of greening properties
 - Prioritizing existing site uses (e.g. parking)
- Site conditions
 - Regulations related to Superfund site status
- Bureaucratic processes
 - Specialized and site-specific solutions don't fit existing process standards



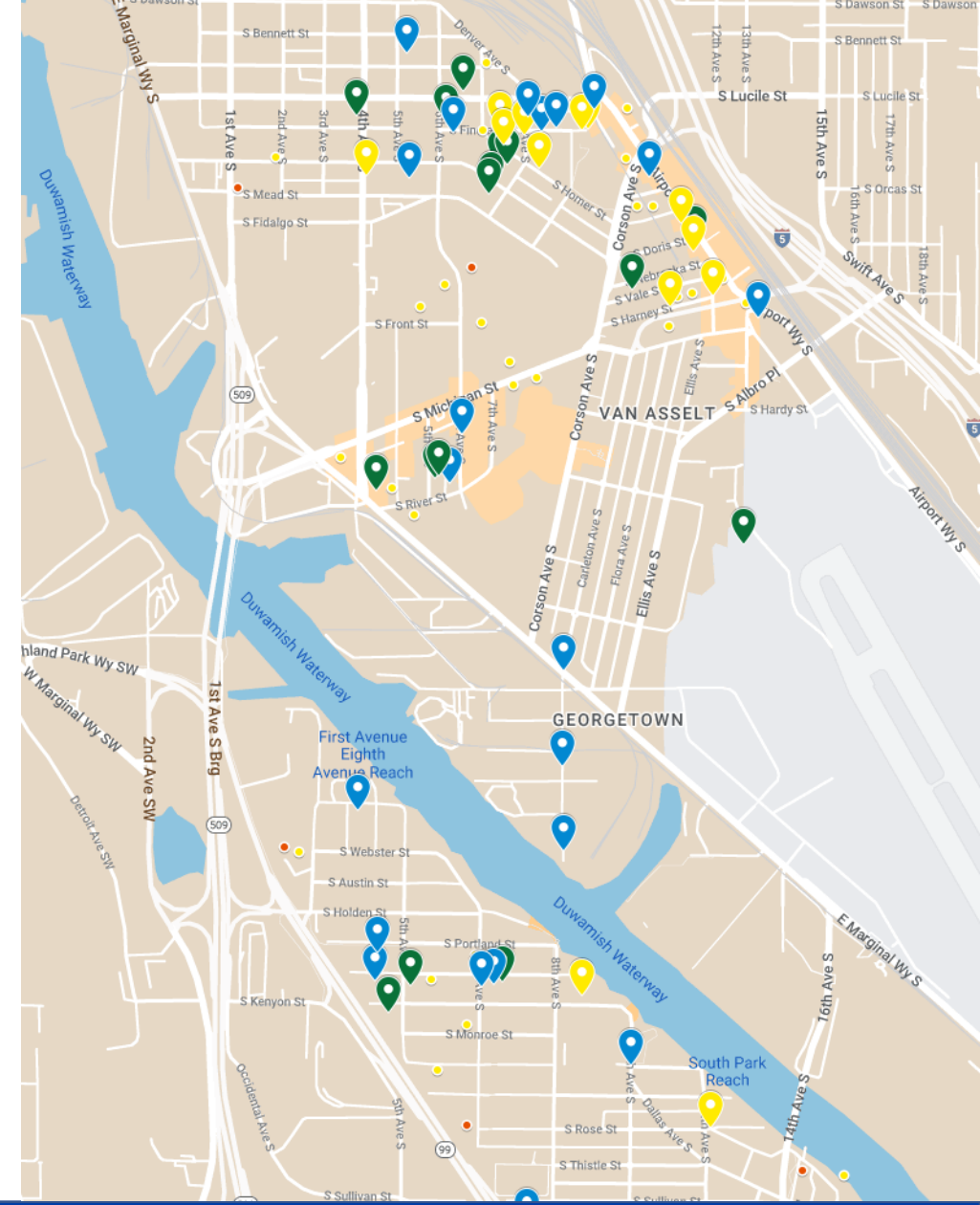
Accomplishments and Solutions

- Collaborative outreach
 - Agencies
 - Community-based organizations
- Business partnerships
 - Developed relationships
 - Installed successful pilot projects
- Site condition collaborations
 - Connect with research teams



Totals 2022-2024

- Property owners contacted: ~100
- Plants installed
 - Trees: 100
 - Other plants: 2,428
- Area planted: 20,000+ sq. ft.
- OSE funds: \$900,000 (outreach, planning and design, installation)
- Additional prospective projects: 12



Project Sites

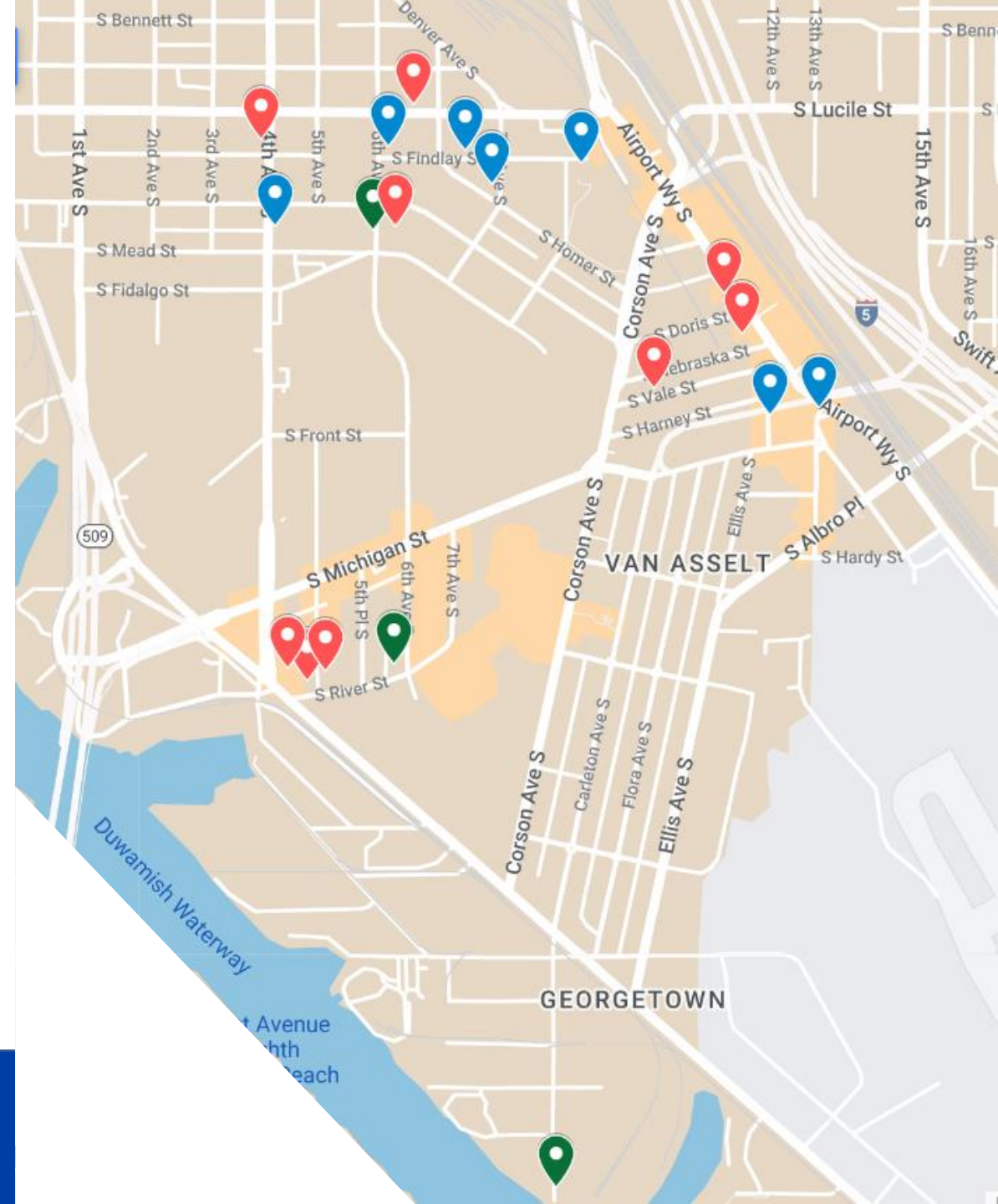
Georgetown



Complete

In progress

Planter boxes

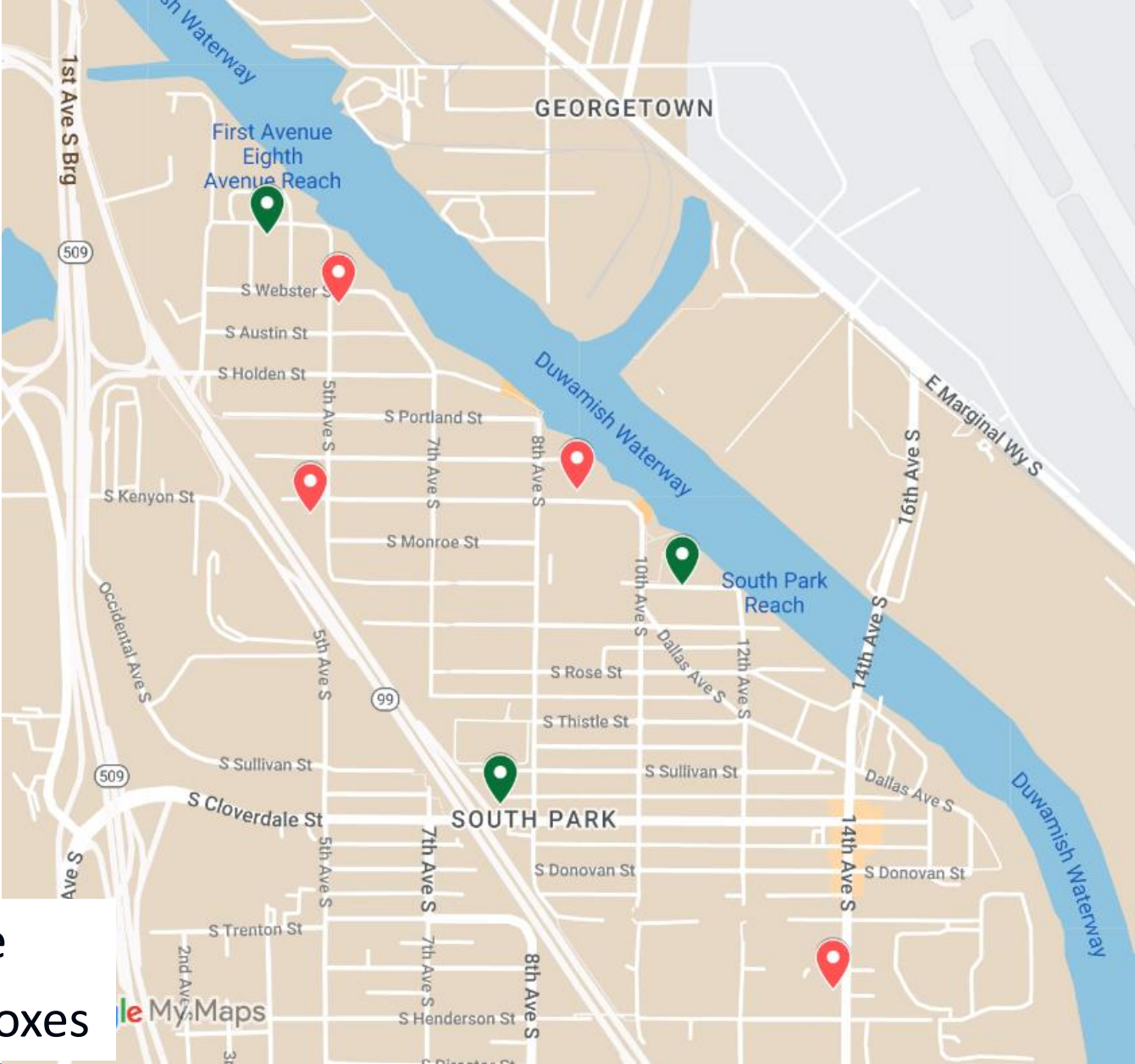


Project Sites

South Park



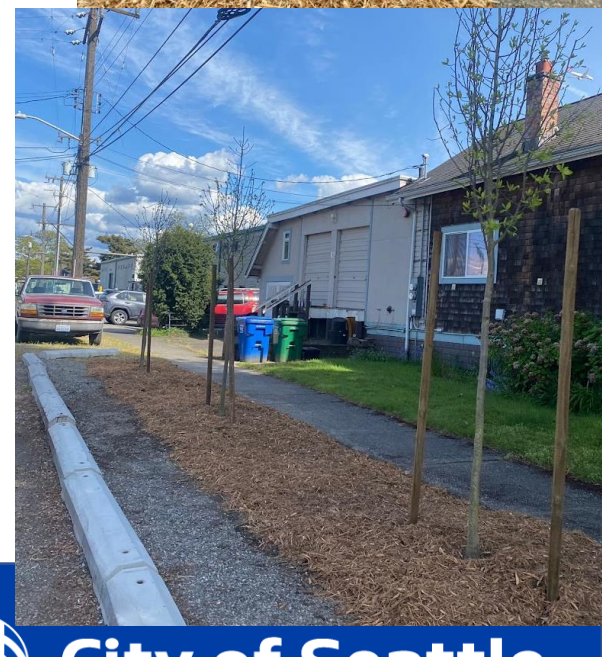
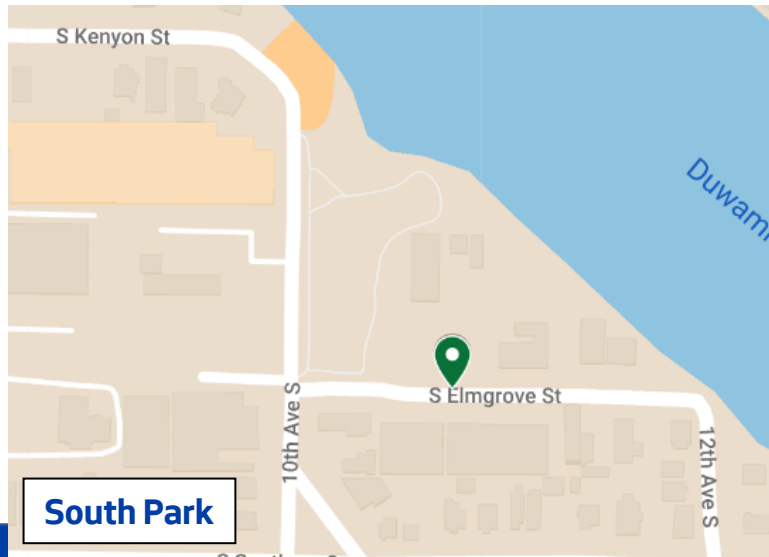
Complete
Planter boxes



Projects Completed 2022-2023

Elmgrove between 10th and 12th Ave S

- Excavation, soil amendments, north and south sides of Elmgrove (2,800 sq ft planting total)
- 30 trees planted



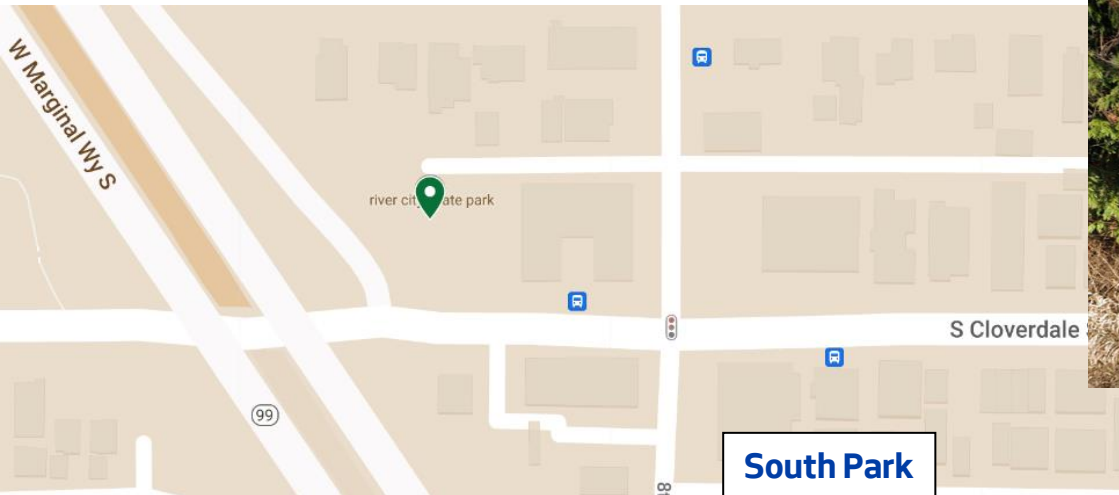
Projects Completed 2022-2023

River City Skatepark

- Other funding (grant) covered raingardens, other improvements
- OSE funding covered tree planting; 10 trees planted



- Raingarden 1:
=26sf raingarden
- Raingarden 2:
● add trees, plants
- Raingarden 3:
● add tree, plants
- Courtyard/ Entry:
add permeable
paving, tree
boxes
- Buffer Planting:
add trees along
west fence
- Green Wall: add
vines



Projects Completed 2022-2023

6th Ave South (Seattle Design Center)

- Depave, swale installation, wheel stops (1,100 sq ft planted area)
- 271 plants



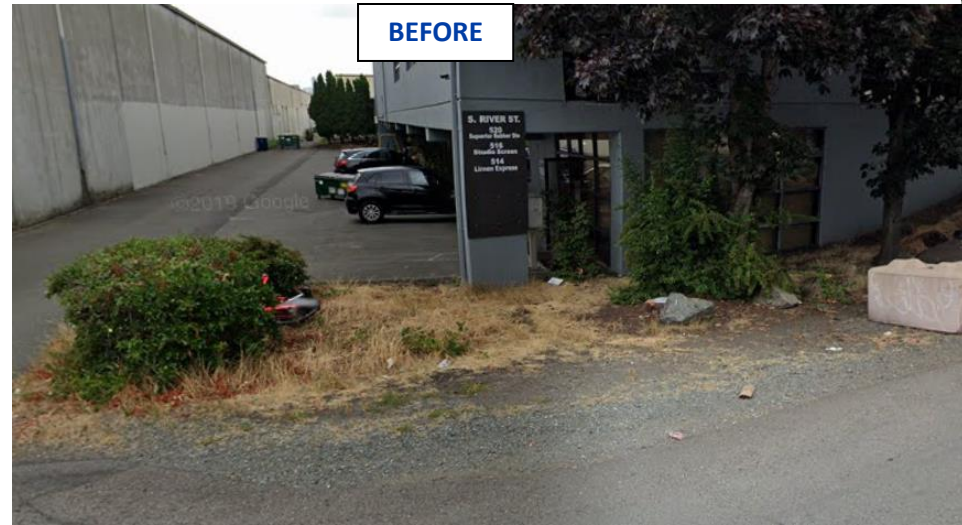
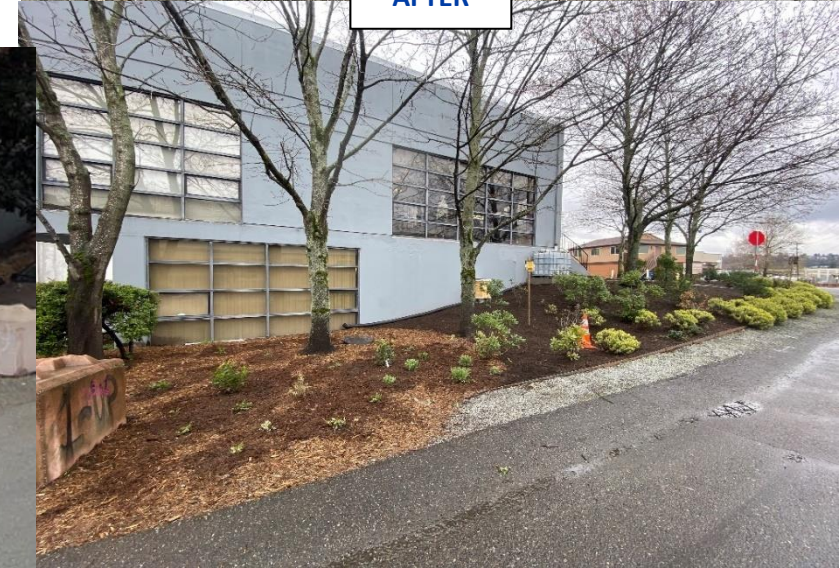
Projects Completed 2022-2023

Beyond Clothing – 6th Ave S

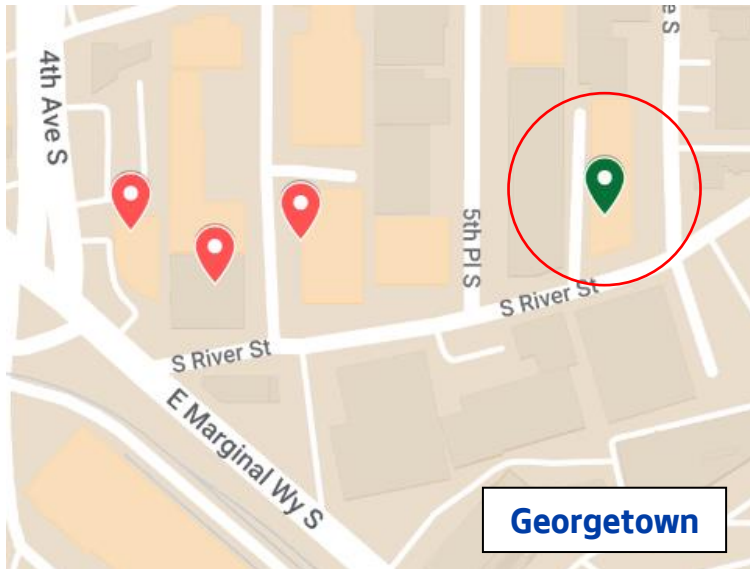
- Raingarden, planter box (150 sq ft planted area)
- 54 plants



AFTER



BEFORE

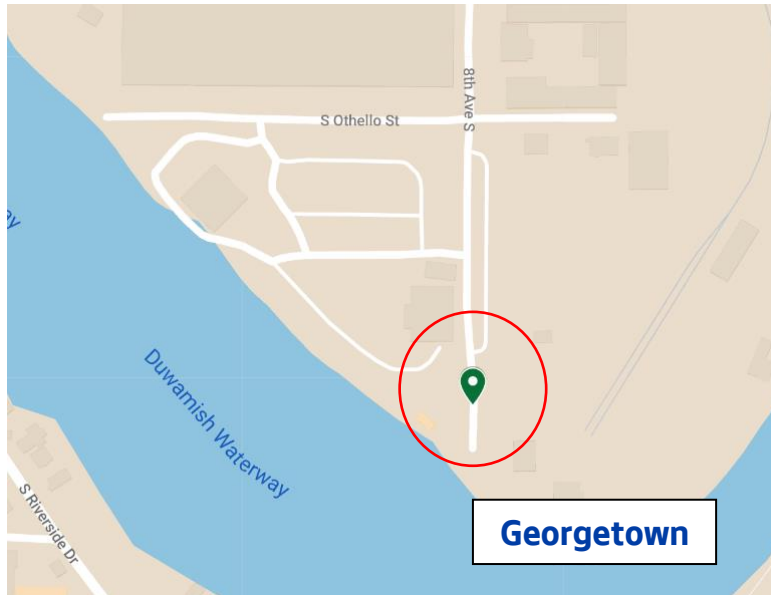


Georgetown

Projects Completed 2022-2023

Gateway Park North

- Larger, ongoing project
- OSE funding contributed to planting 7 additional trees and 6 willow structures



2024 Project Sites

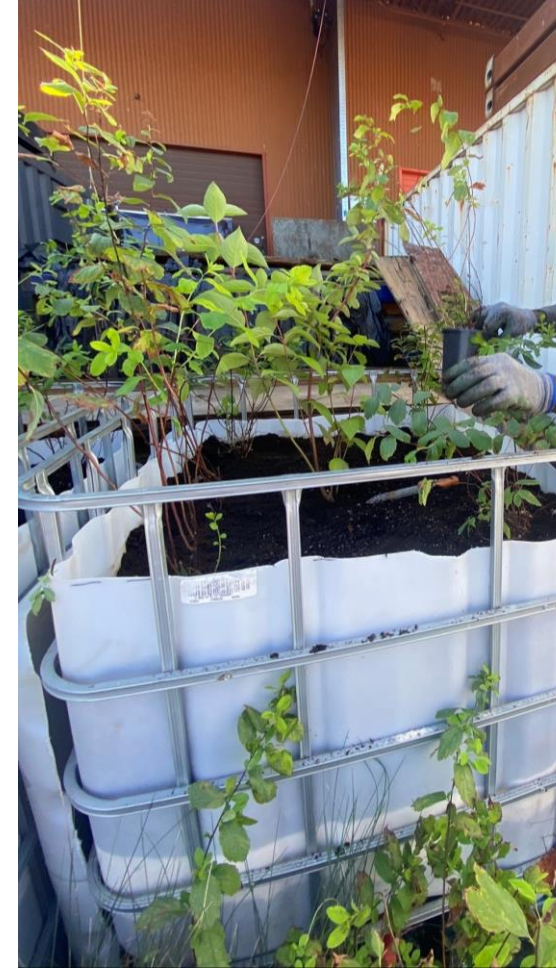
Planter boxes

- Temporary measure for some properties not yet ready for in-the-ground projects
- Permanent measure for some properties where depaving and planting not possible
- 29 boxes installed at 17 sites; 260 plants
- Has resulted in more property owners committing to projects



2024 Project Sites

Planter boxes



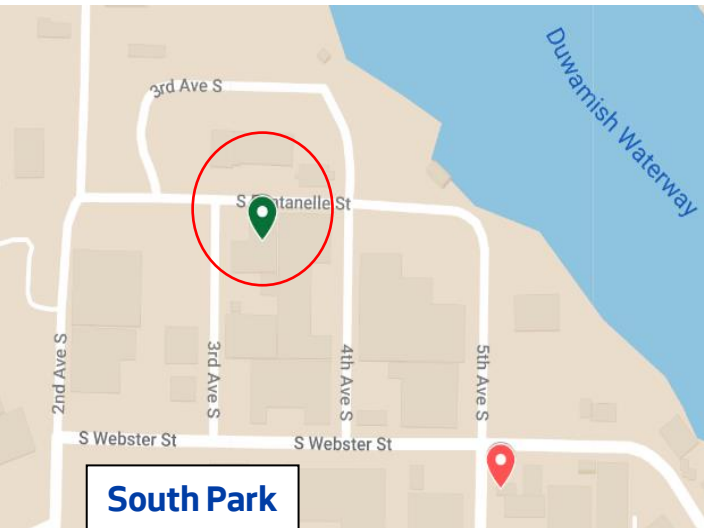
2024 Projects Completed

Duwamish River Community Coalition office

- Raingarden (600 sq ft), cistern
- 2 large conifers, 5 other trees, 50 shrubs/groundcovers



AFTER



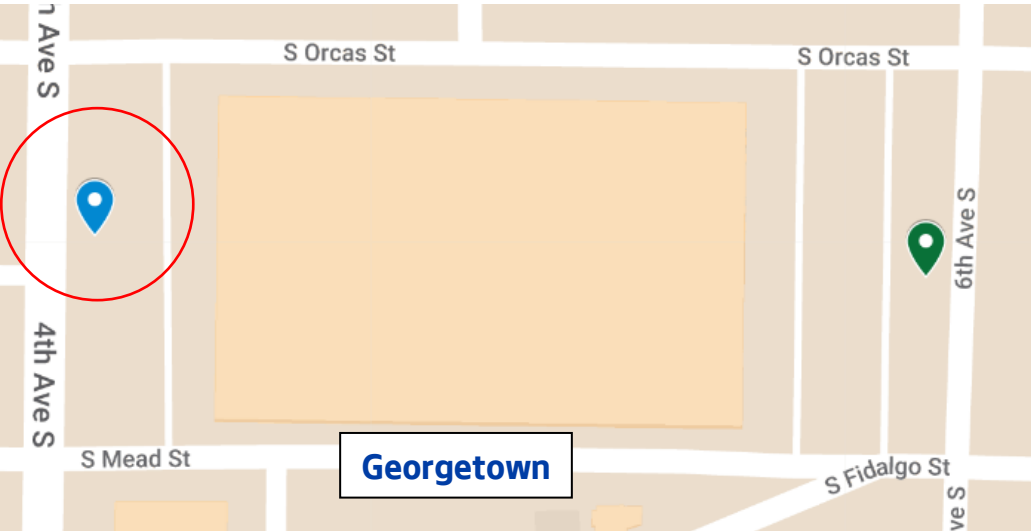
BEFORE



2024 Projects in Planning

4th Ave (Seattle Design Center) – Georgetown

- Depave, swale installation, wheel stops
- 1,140 sq ft planting area; 150 plants, including trees



2024 Project Sites in Planning

Findlay Corridor

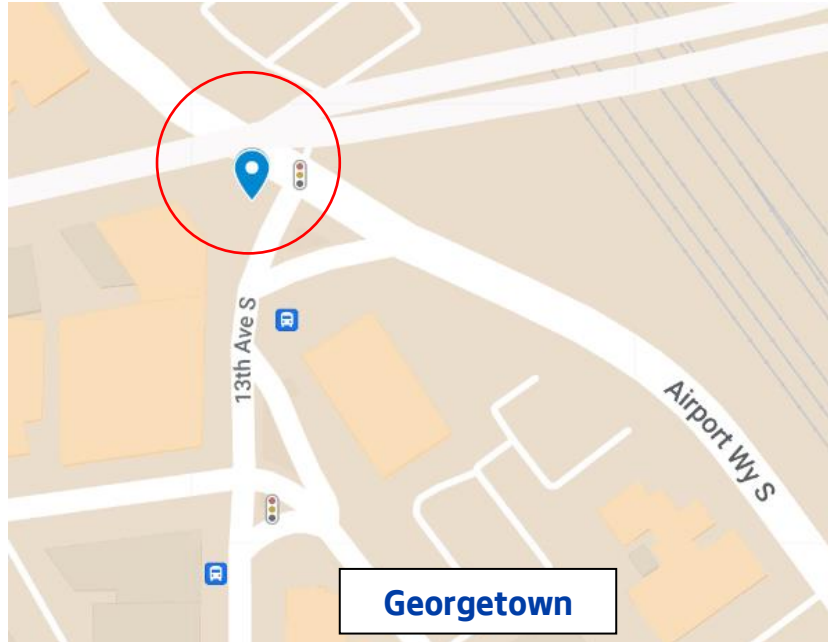
- Three projects in planning



2024 Project Sites in Planning

Airport Way and 13th Ave

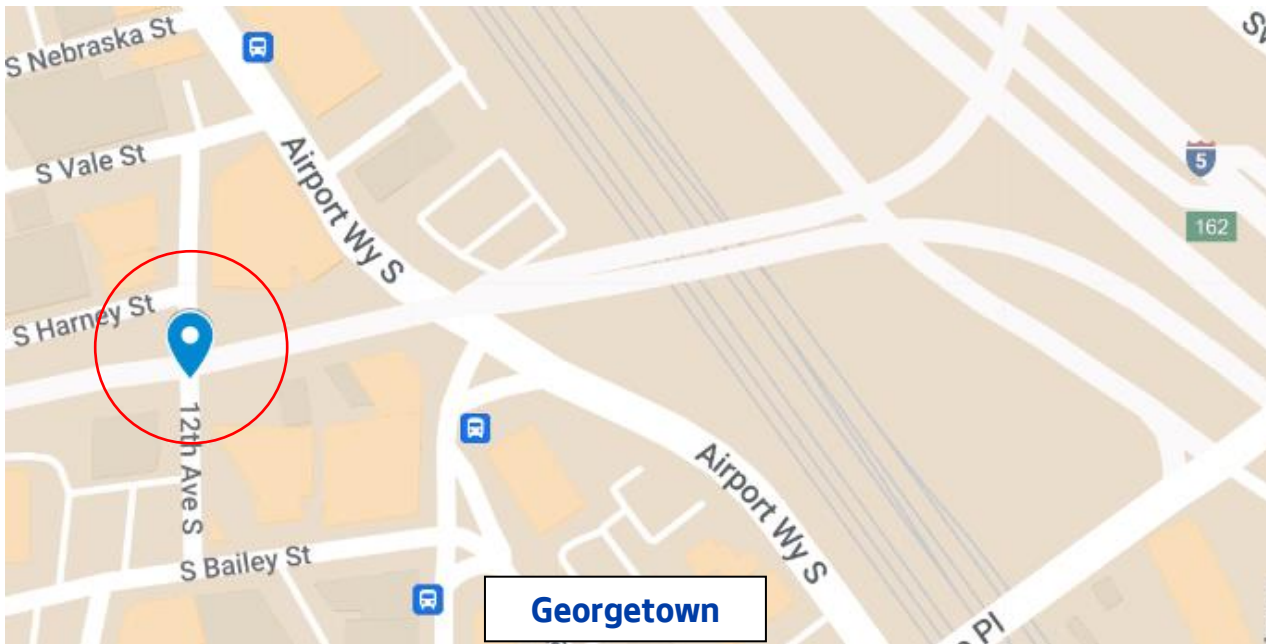
- Depave parts of large curb bulb
- Plant 4 trees



2024 Project Sites in Planning

WSDOT ROW at 12 Ave

- Stormwater park, to include public use elements
- OSE funding to cover tree planting



Questions?

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