

Lower Duwamish Valley Resilience District

Leveraging public investment to address climate change, foster economic development, and prevent community displacement

SPU Customer Review Panel - 9/13/2021

Centering On Community Challenges

Lead with awareness + recognition of history, racial inequity, economic and health disparities, and structural injustice.

Focus on basic human right to **affordably access essential service**, have good health, a clean environment, and the opportunity for self-determination and full thriving... in place.



Health Defined by Geography?



Duwamish Valley Program

Life Expectancy



Asthma Prevalence



Living Near Contaminate Site, Superfund Site, or Freight Corridor

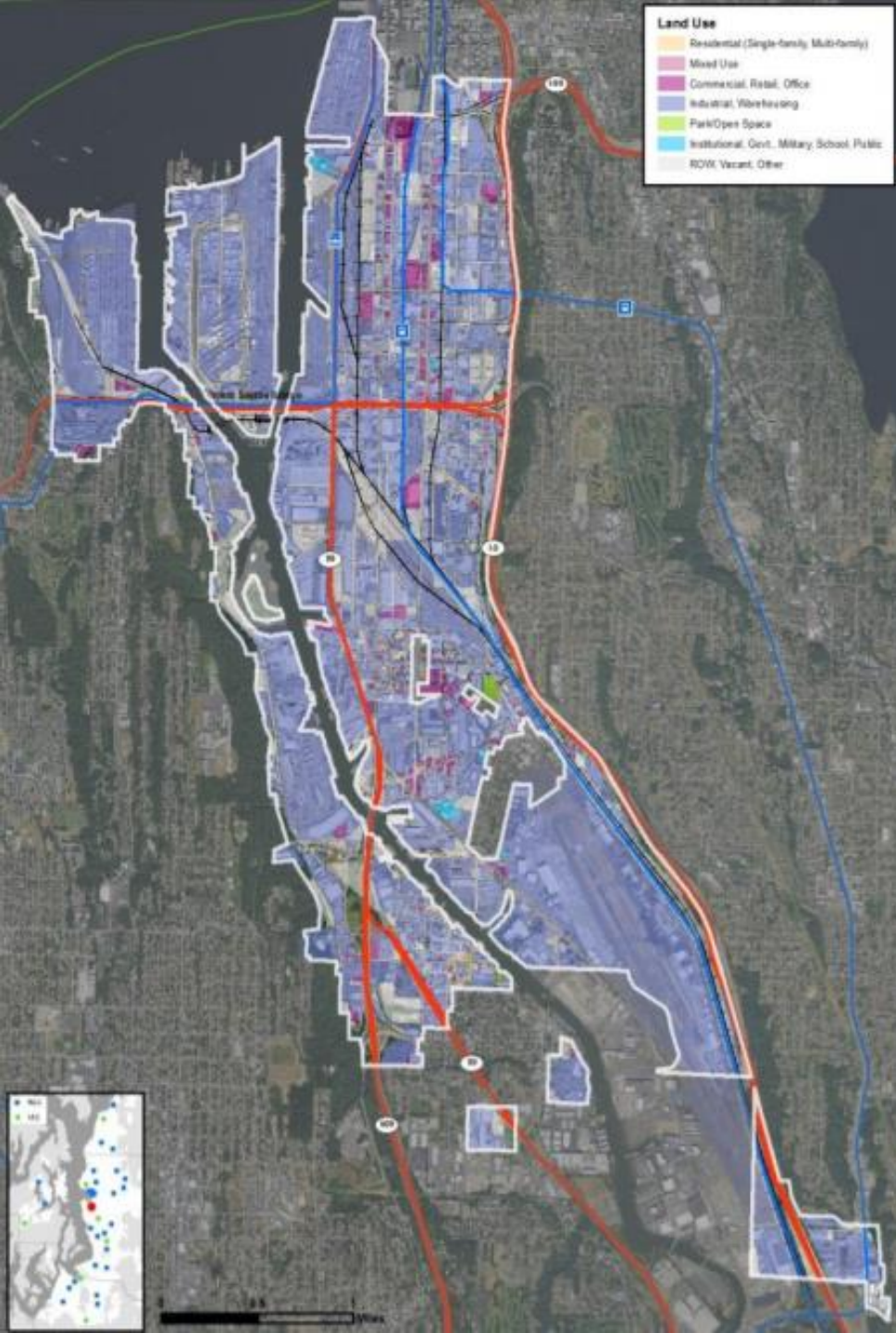


How do we understand + manage our impact?









Duwamish MIC

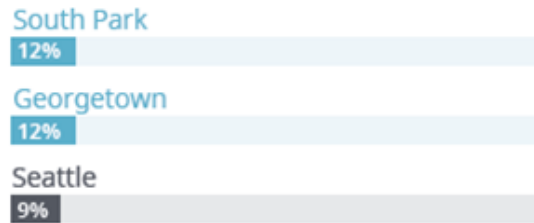
- Duwamish Manufacturing/Industrial Center is one of the largest, most intensely developed manufacturing/industrial areas in the Pacific Northwest
 - 60,000 jobs
 - 5,000 acres
- The Duwamish Valley communities of Georgetown and South Park play a substantial role:
 - ~\$300 million in annual taxable revenues in 2016
 - 10,000+ industrial jobs



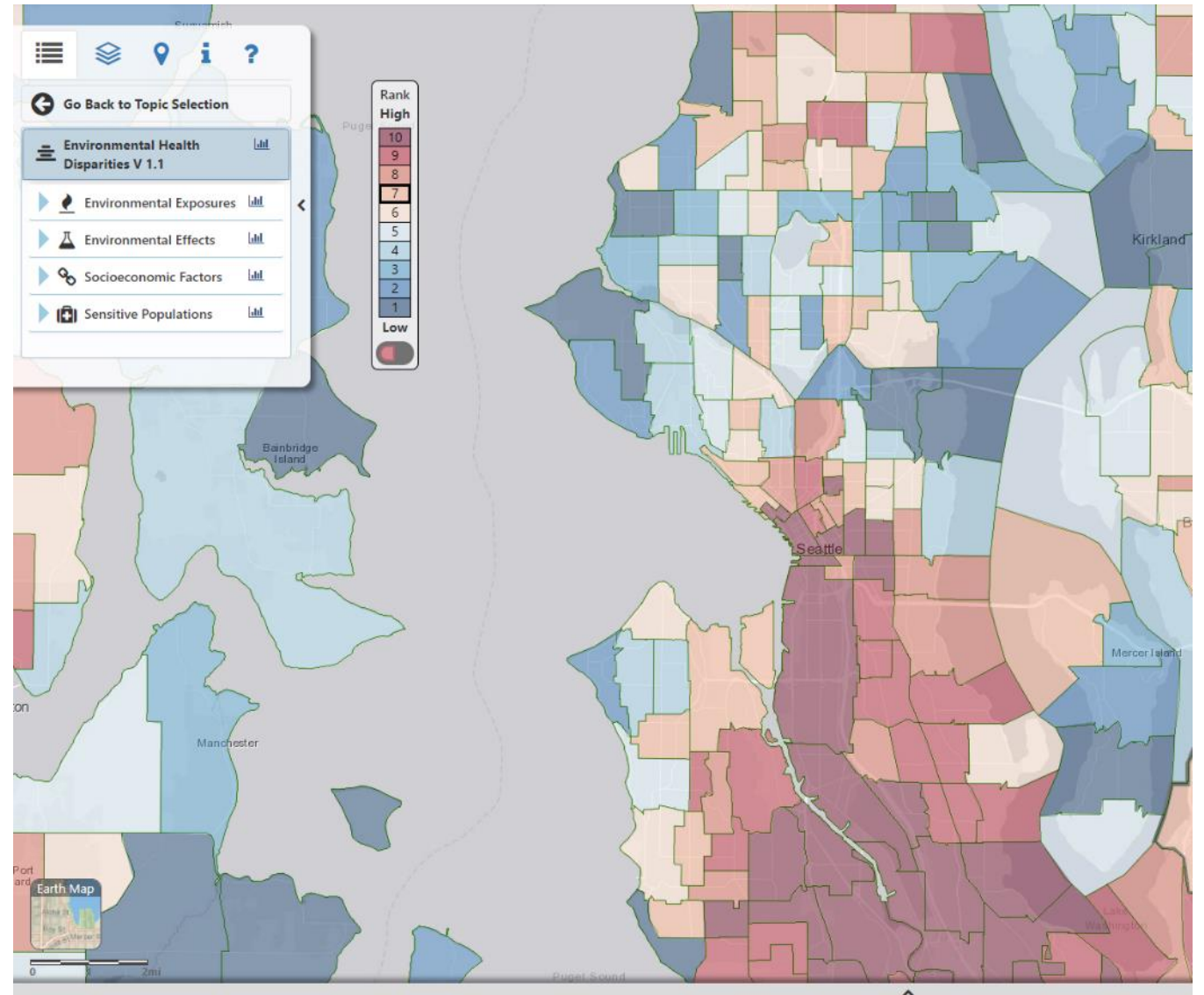
Life Expectancy



Asthma Prevalence



Living Near Contaminate Site, Superfund Site, or Freight Corridor



SPU South Park Drainage Improvements Program

Pump Station – 2021 Construction

SPU



Roadway and Drainage Improvements – 2021/22

SPU and SDOT







Water Quality Treatment Facility – by 2030

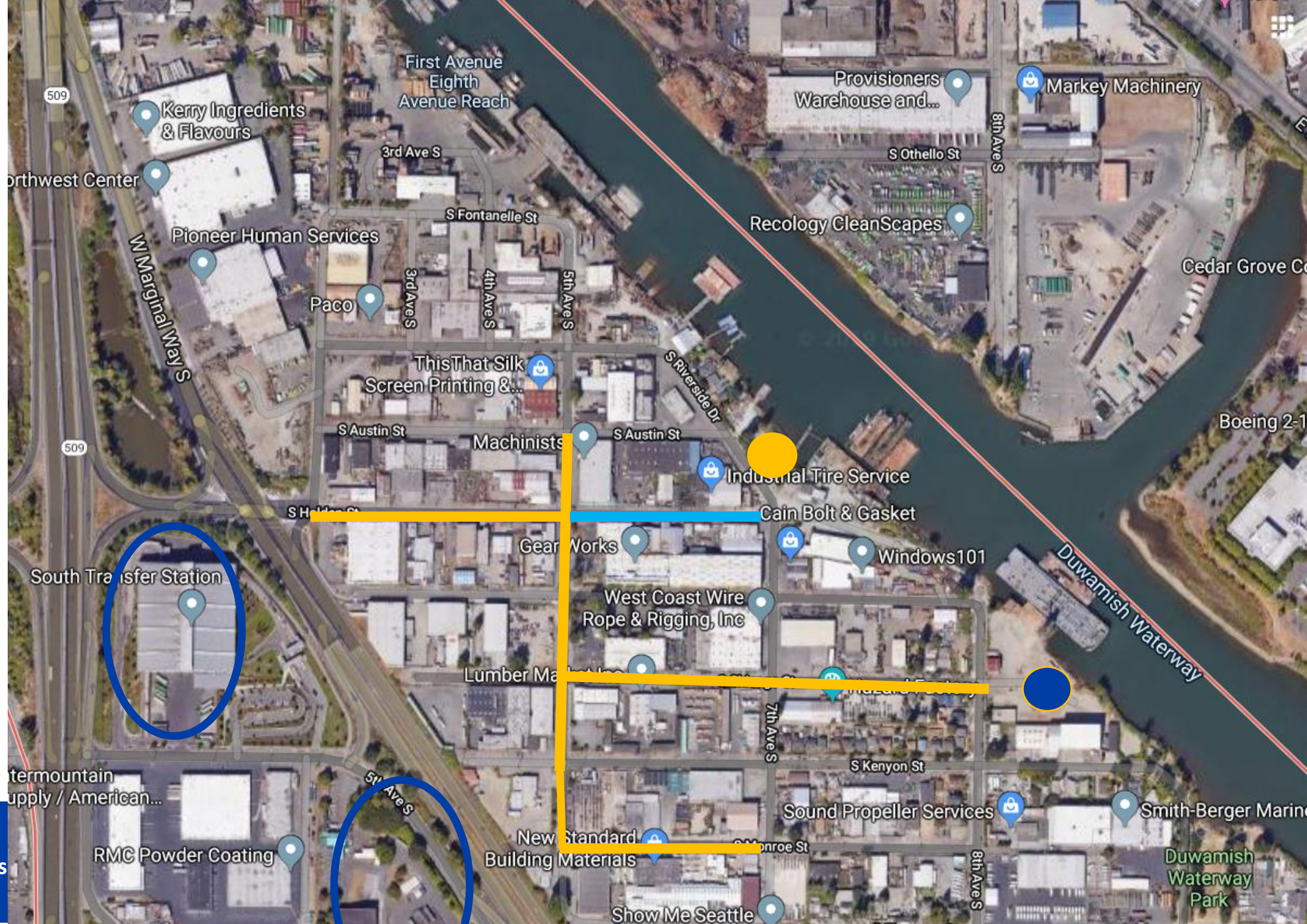
SPU



+ potential small scale (\$6M) phase 2 with Fed Stimulus \$

SPU Project Locations

-  Pump Station
-  Roadway and Drainage
-  Drainage Only
-  WQ Facility



Episodic Impacts in South Park

Table 1. Sea Level Rise Projections for the City of Seattle

Condition	2020	2050		2100	
	Water Level (ft) ¹	Projected SLR (ft) ²	Water Level (ft) ^{1,3}	Projected SLR (ft) ²	Water Level (ft) ^{1,3}
Daily high tide	0	1	1	3	3
Monthly high tide	1	1	2	3	4
Annual high tide	2	1	3	3	5
100-year storm surge ⁴	3	1	4	3	6

¹ Water level above the average daily high tide (MHHW) in 2020.

² SLR is relative to a 1991 through 2009 average, based on 50-percent probability SLR values for 2050 and 17-percent probability for 2100, using regional climate model 8.5 greenhouse gas model. (Miller et al. 2018).

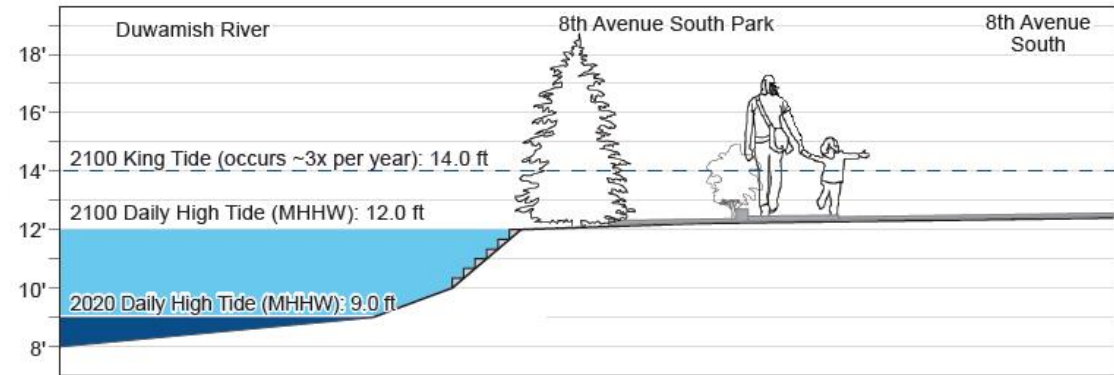
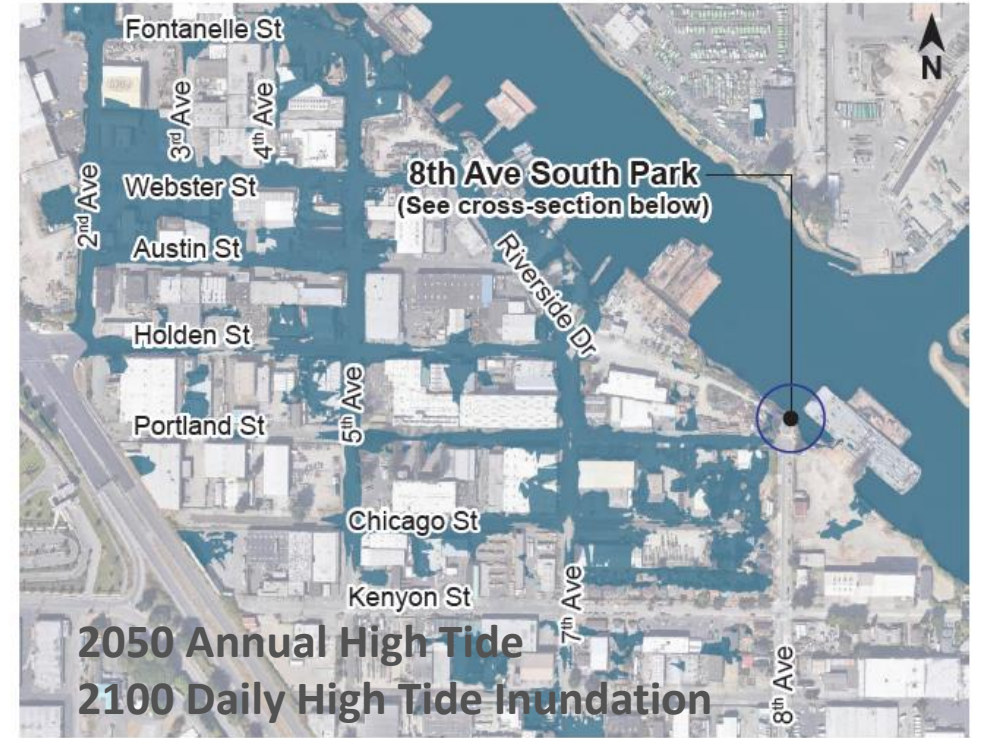
³ Calculated as 2020 water level plus projected SLR for the given future year.

⁴ Current projections do not include a change in storm surge as a result of SLR.

ft = feet

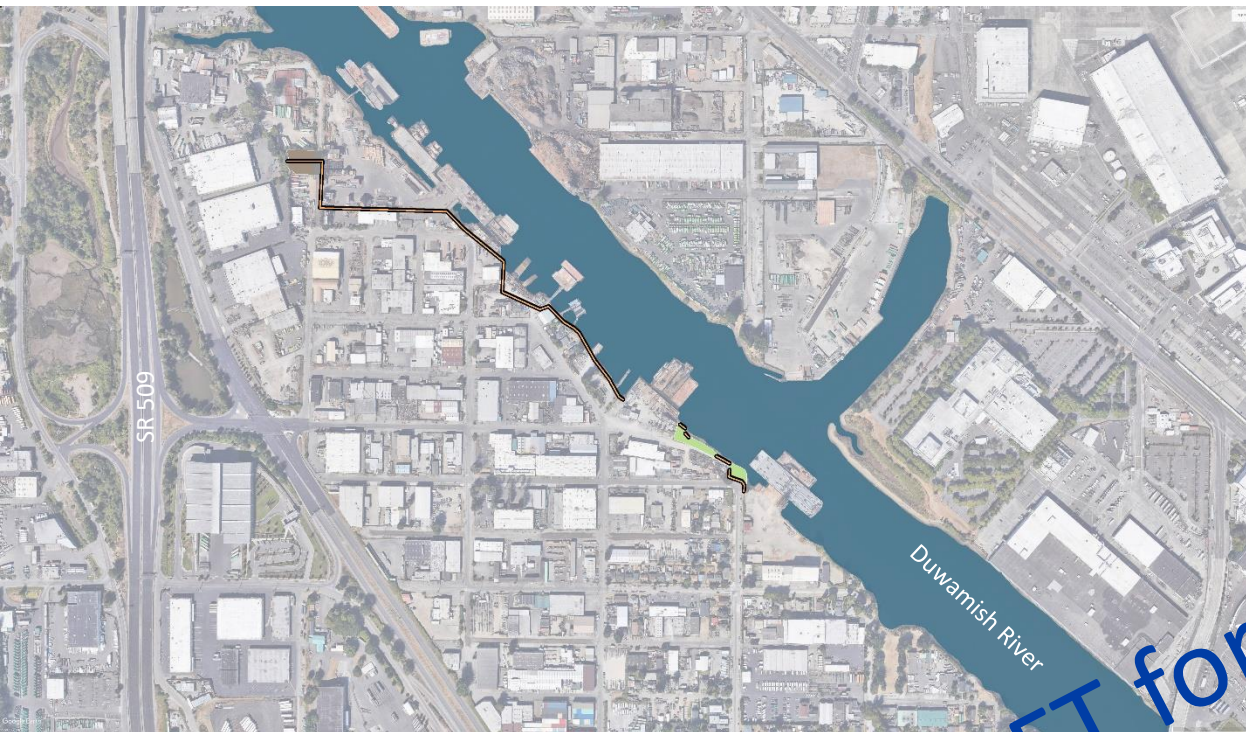
MHHW = mean higher high water

SLR = sea level rise



Sea Level Rise (SLR) Approach Comparison

Traditional SLR Infrastructure Approach



Expanded SLR Infrastructure Approach



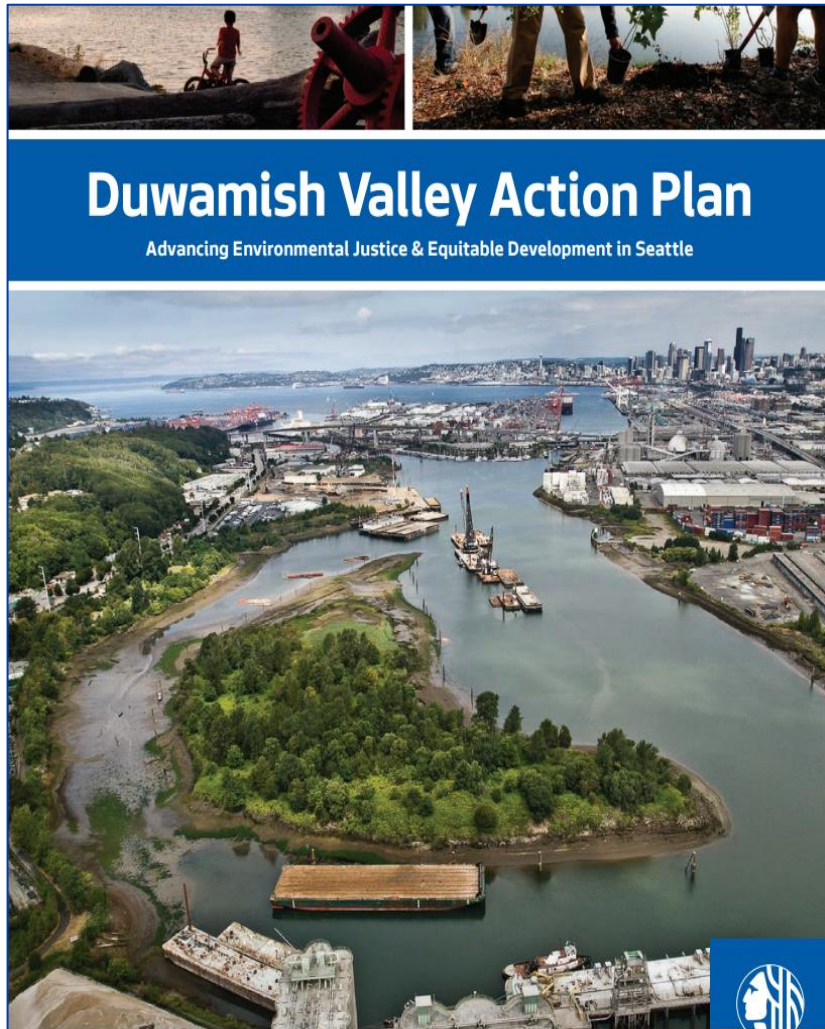
DRAFT for initiating discussion

- Fewer properties protected
- No community amenities created
- No additional open space provided
- No bio-habitat mitigation or restoration
- Not aligned with Green Space Vision Plan
- Construction/implementation less costly
- Some short term impacts due to construction / interventions
- Water access maintained for most parcels

- More properties protected from sea level rise
- More community amenities created
- More open space created
- More bio-habitat mitigation or restoration
- Aligns with Green Space Vision Plan
- Construction/implementation more costly
- More short term impacts due to construction / interventions
- Water access will shift for some parcels

These sea level rise adaptation concepts have been developed based on ACE 2017 report, South Park Vision Plan and hybrid alternatives based on city stakeholder engagement. These have been developed for planning purposes, for continued stakeholder dialogue and to develop a funding strategy for incremental adaptation to our changing climate over time. The exact location, shape and size of interventions will be determined at the time of design and construction in the future.

Duwamish Valley Action Plan (DVAP Phase 1)

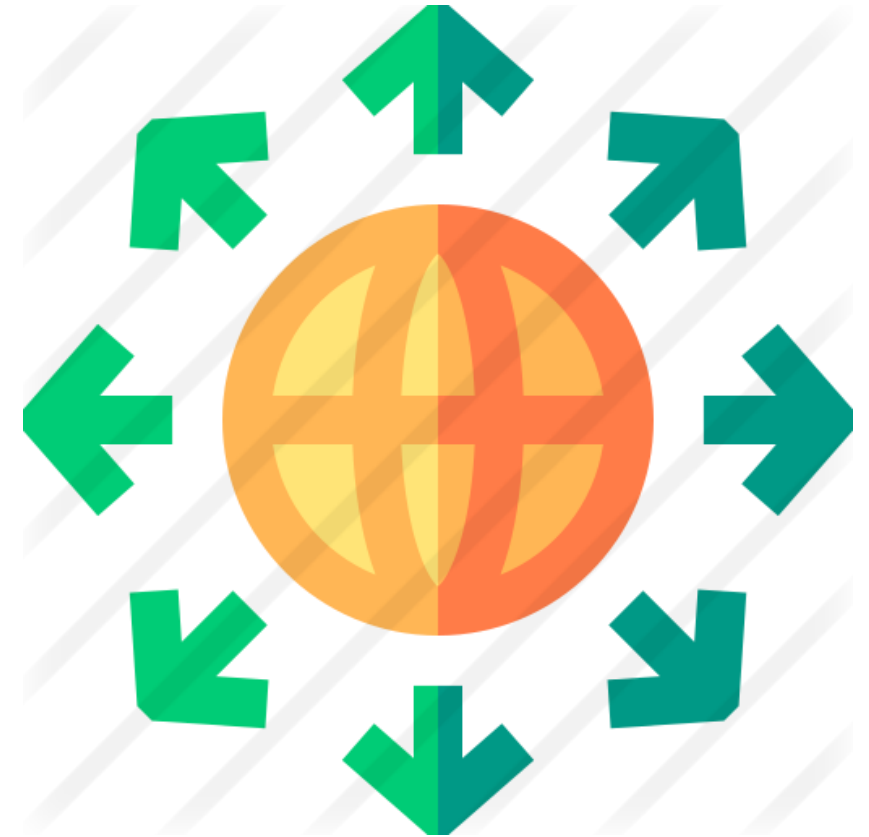


In June 2018, the City released a shared vision to promote collaboration and guide the City's work and investments in the Duwamish Valley in years to come.

Duwamish Valley Program 2.0

Expanding and Deepening our Work :

- **Partners**: City family + community stakeholders + other agencies + philanthropy + others
- **Geography**: Residential + industrial areas + Duwamish Longhouse & Cultural Center.
- **Investment**: Hundreds of millions of dollars.
- **Issues & Opportunities**: “Upstream” solutions.



Climate & Community Resilience

November 2020: Robert Wood Johnson Foundation* awarded the City's Duwamish Valley Program a **\$600,000, 2.5-year grant to implement the Resilience District vision.**

**RWJF aims to bring the most impactful ideas from across the globe to U.S. cities to address the intertwined issues of health, equity, and climate change through six projects funded through this initiative.*



Why a Resilience District?



Climate Change Adaptation

- Align Investment to Need
- Establish Development Framework

- Secure Sustainable Funding
- Equitably Distribute Benefits
- Do Deals

Community Wealth Building



Community Stabilizing

- Fight Displacement
- Share Decision-Making
- Establish and Hold Partnerships
- Deploy EJ & ED Investments

Place-based, geographic strategy & designation

A Resilience District equips community to marshal their assets to address systemic vulnerabilities / inequities, many of which have been thrust into the spotlight during the COVID-19 pandemic.

Thriving in Place



CURRENT ACTIONS

Thriving in Place

1. Affordable Housing
2. Weatherization, Air Quality & Heat
3. Drainage & Water Quality
4. Open Space
5. Community Spaces

Climate Change

6. SPU Investments

Economic Opportunity

7. Duwamish River Community Hub
8. Only in Seattle
9. COVID Grants

Thriving in Place In Place

- HALA (MHA, tenant protections)
- Community Preference Policy
- Religious Institution Zoning

Under Consideration

- Equitable Zoning Overlay

Opportunities

- Inclusionary Zoning / Tax Policy
- Renter and Owner Protections
- Community Land Trusts

Climate Adaptation In Place

- Multi-Hazard Plan
- Draft SLR Vision

Under Consideration

- Scenario Planning
- BRIC – Preliminary Design

Opportunities

- Value Capture
- Industrial Incubator Land Trust

Economic Opportunity In Place

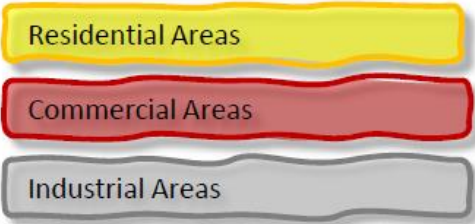
- Priority Hire / CWA

Under Consideration

- Workforce Development
- Public Private Partnerships

Opportunities

- Local Workforce Training
- Affordable Business Land Trust



The Journey



RWJF Grant Work

Advance Elements of the Resilience District

Place-based, geographic strategy & designation

1. Organizational Infrastructure

- Community voices coordination
- Cross-sector collaboration
- Community entity

2. Physical Infrastructure

- Sea level rise adaptation strategy
- Mitigation: SPWQF, SP Pump Station, drainage
- Adaptation: sea wall, berm, etc.

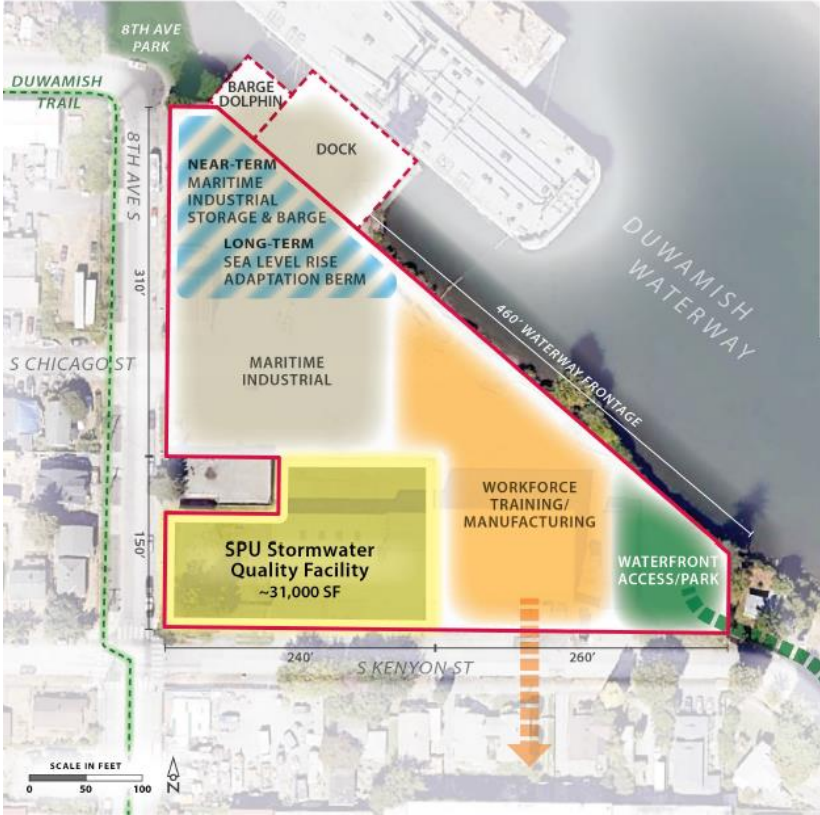
3. Financial Infrastructure

- Value capture mechanisms
- Equitable investment tools



South Park Water Quality Facility Co-Development

- Scenario 1: SPU Property Ownership/Clean-up + Public Co-Development (Small WQF)



- Scenario 2: SPU Property Ownership/Clean-up + Public Co-Development (Large WQF)



Discussion



A group of people in a colorful canoe on a body of water, with industrial buildings and a barge in the background. The scene is bright and sunny, suggesting a recreational activity in an urban waterfront area.

**A resilient Duwamish Valley for
local people and businesses**

Thank you!

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