WEST BAY PARK & RESTORATION MASTER PLAN

Council Study Session | April 24, 2018

Tonight's Agenda

1) Introductions
2) 2016 West Bay Environmental Assessment
3) West Bay Park & Restoration Master Plan
4) Next Steps

West Bay Restoration Assessment

Analysis of Restoration, Public Access, and Water Quality Opportunities (Final Report Feb 2016)

Partners –

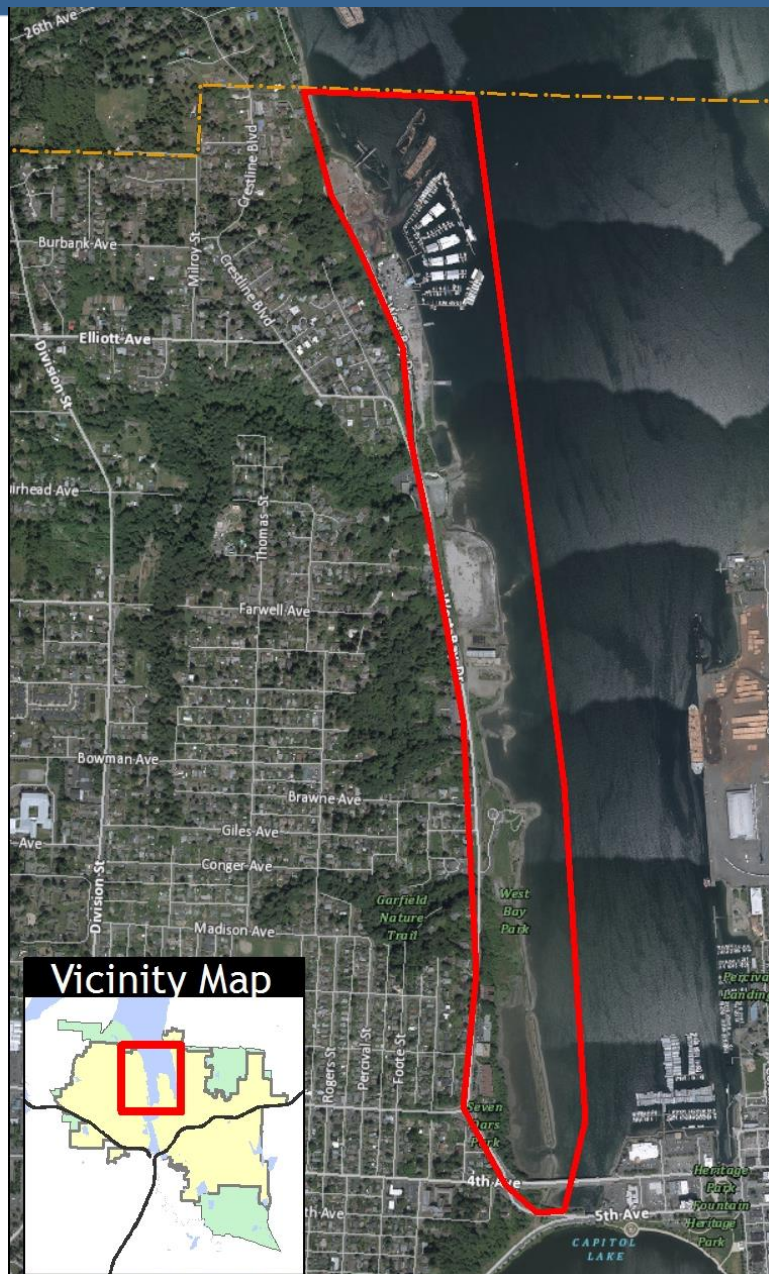
- Olympia Parks Arts and Recreation
- Olympia Public Works
- Port of Olympia
- Squaxin Island Tribe

Consultants – Coast and Harbor Engineering,

w/ JA Brennan Associates, GeoEngineers, Davido Consulting Group, & Environmental Science Associates

Scope and Area of Study

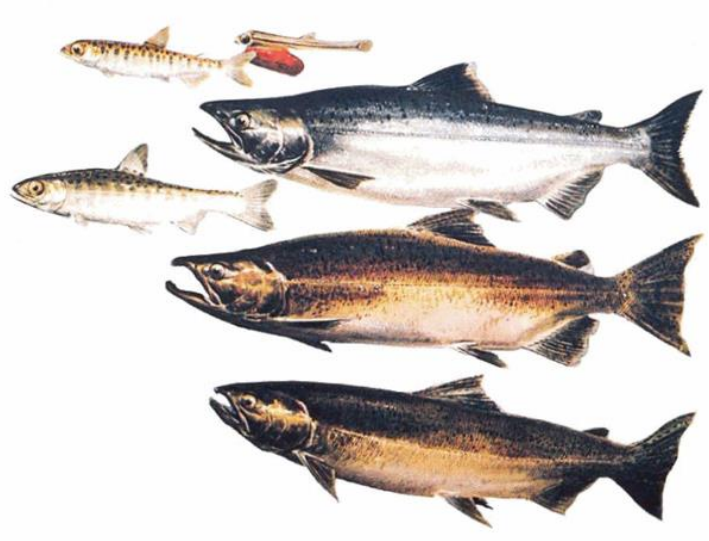
- Shoreline Restoration and Water Quality Opportunities
- Scientific Analysis of Ecosystem Benefit/Conceptual Costs
- Emphasis on Public Property
- Trail Alternatives and Public Access Compatibility



West Bay Existing Conditions

Criteria Used in Assessment

- Habitat Restoration Benefits
- Beach Slopes/Substrate
- Riparian Vegetation
- Large Wood Along Shoreline
- Tidal Circulation/Flushing
- Connectivity/Migration Corridor
- Water Quality Improvements
- Compatibility with Public Access/Trails



Habitat Opportunities – Beach/Riparian

Burfoot Park - Gravel Beach

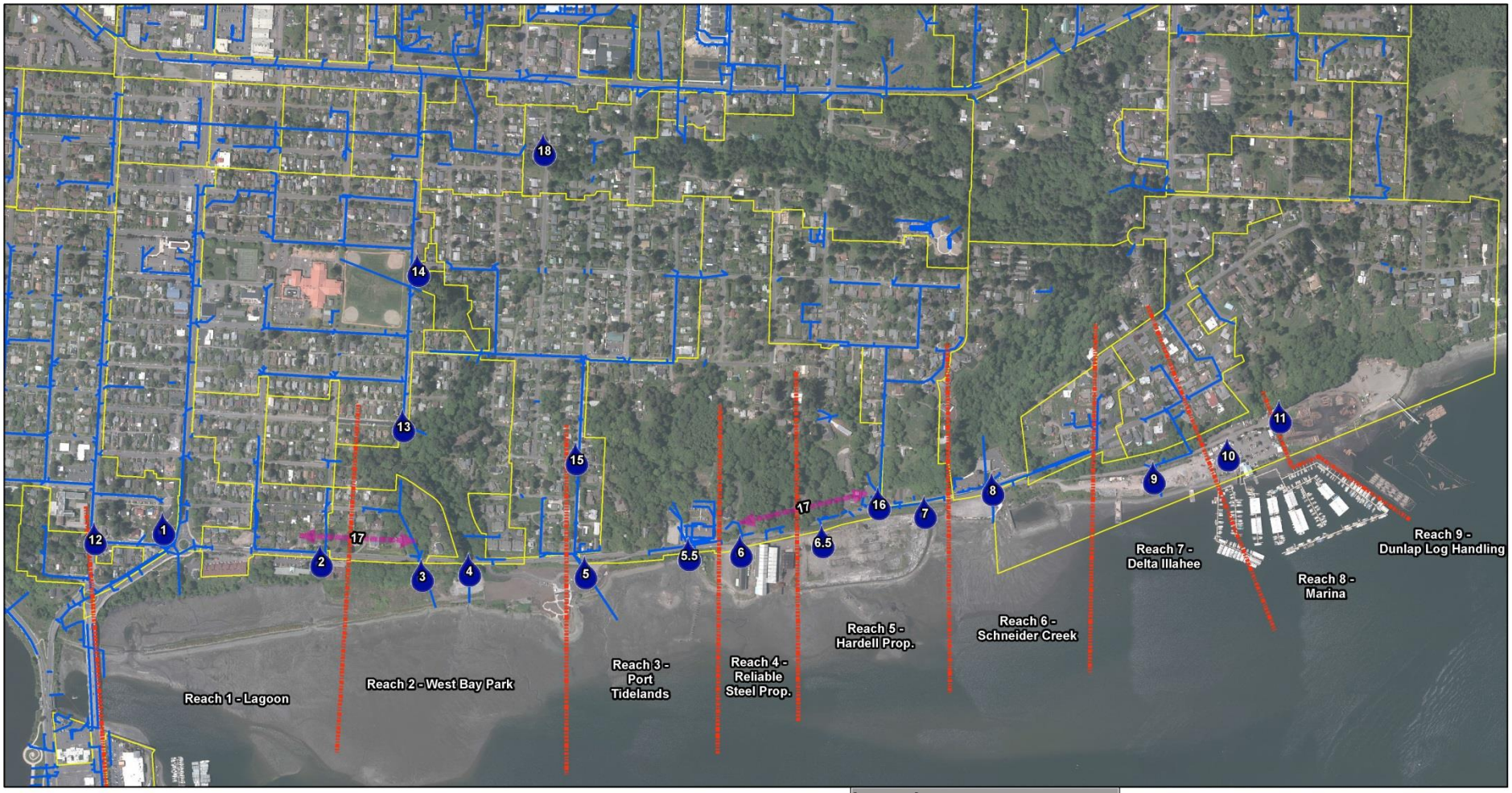
Habitat Opportunities - Salt Marsh

Priest Point Park - Salt Marsh

Habitat Opportunities – Mudflat

Priest Point Park - Mudflat

Water Quality Opportunities



Stormwater Treatment Opportunities Map

Fig. 7

Date: 2/16/2016

0 580

Feet

Legend

- Stormwater Retrofit Opportunities (Piped)
- Stormwater Retrofit Opportunities (Roadway)
- Stormwater Main
- Sub-Basins
- Reach_Matchlines

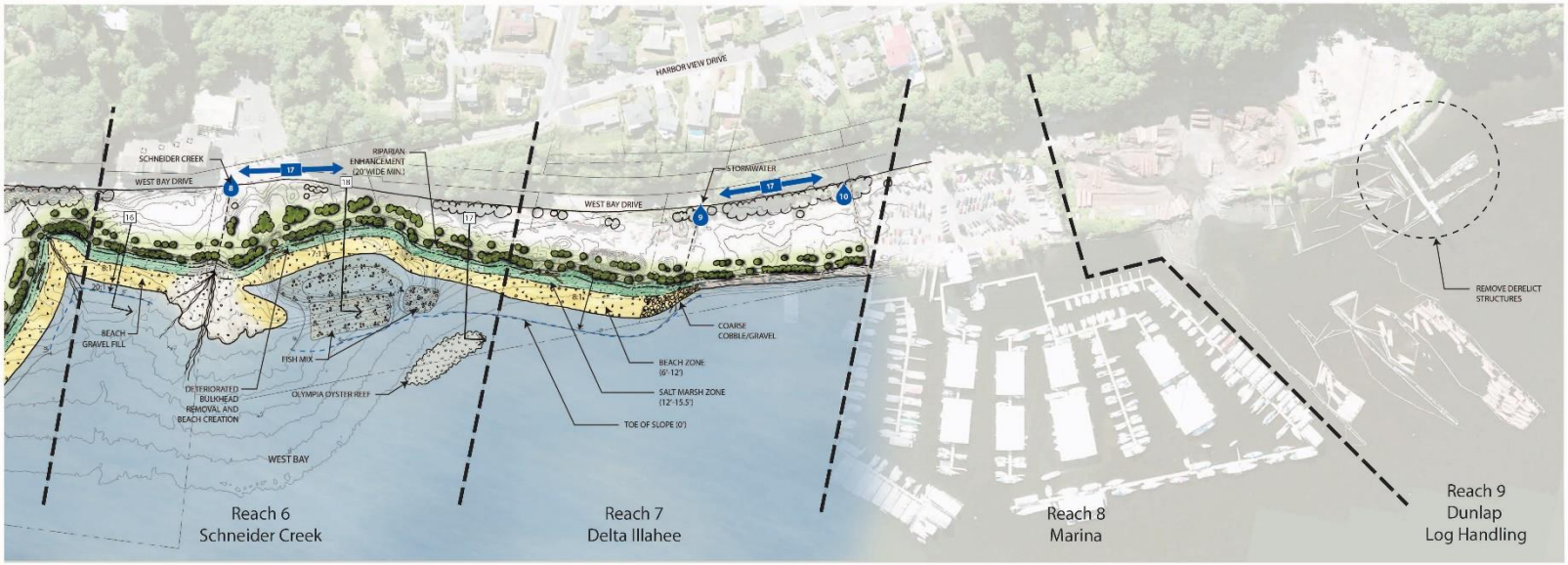
DCG INCORPORATED

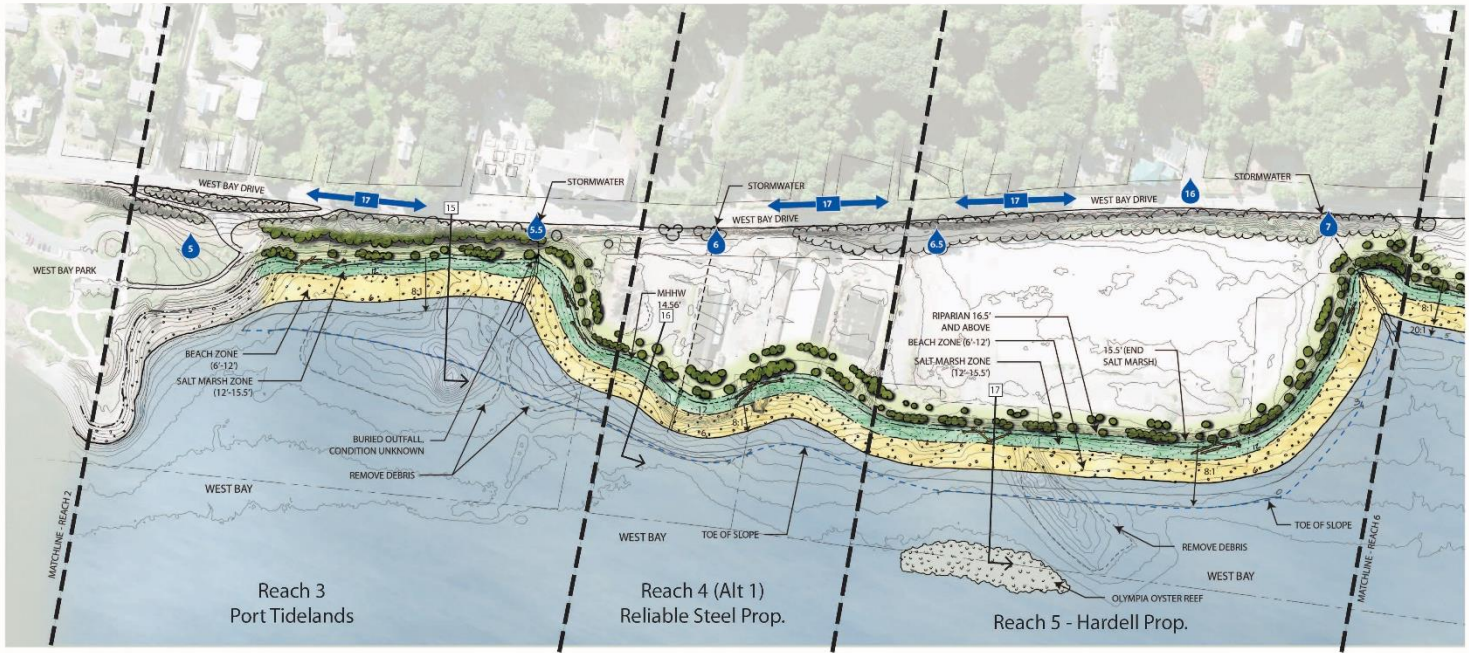
Olympia

Evaluation of Alternatives

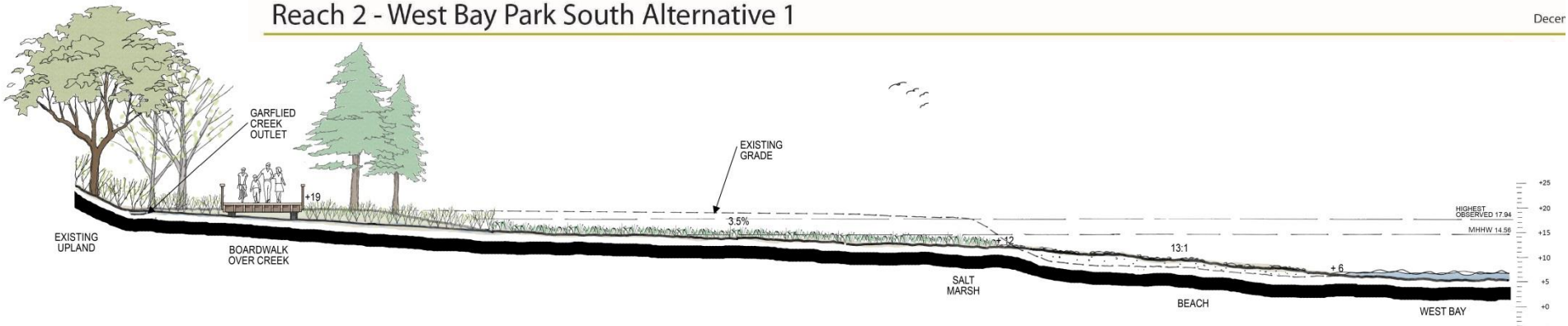
- **Semi-Quantitative – Area * Value of Habitat Change (# Score)**
- **Qualitative Analysis – 8 Other Attributes (Low-High+Exceptional)**
- **Conceptual Level Cost Estimates ($)**

City Limits to Port Tidelands



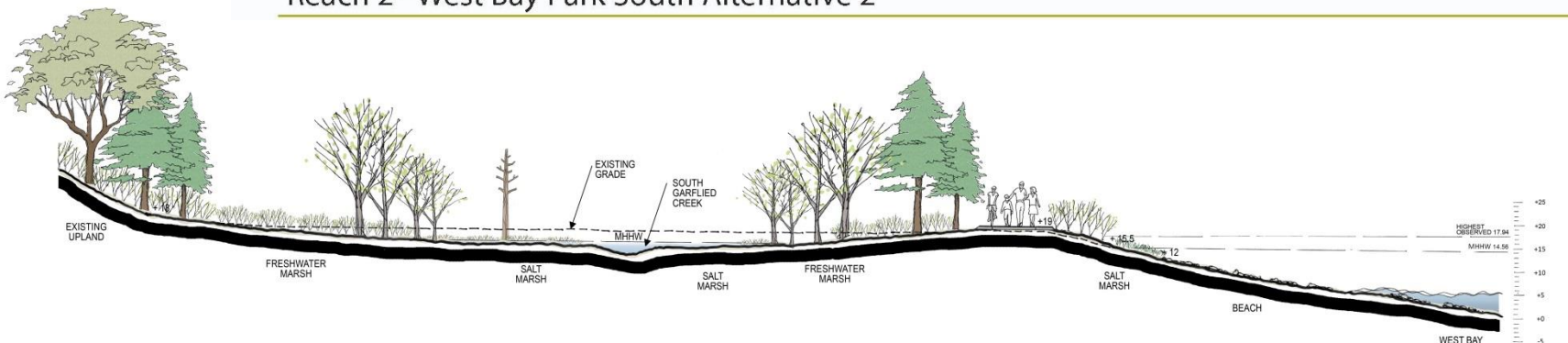


West Bay Park Alternative #1

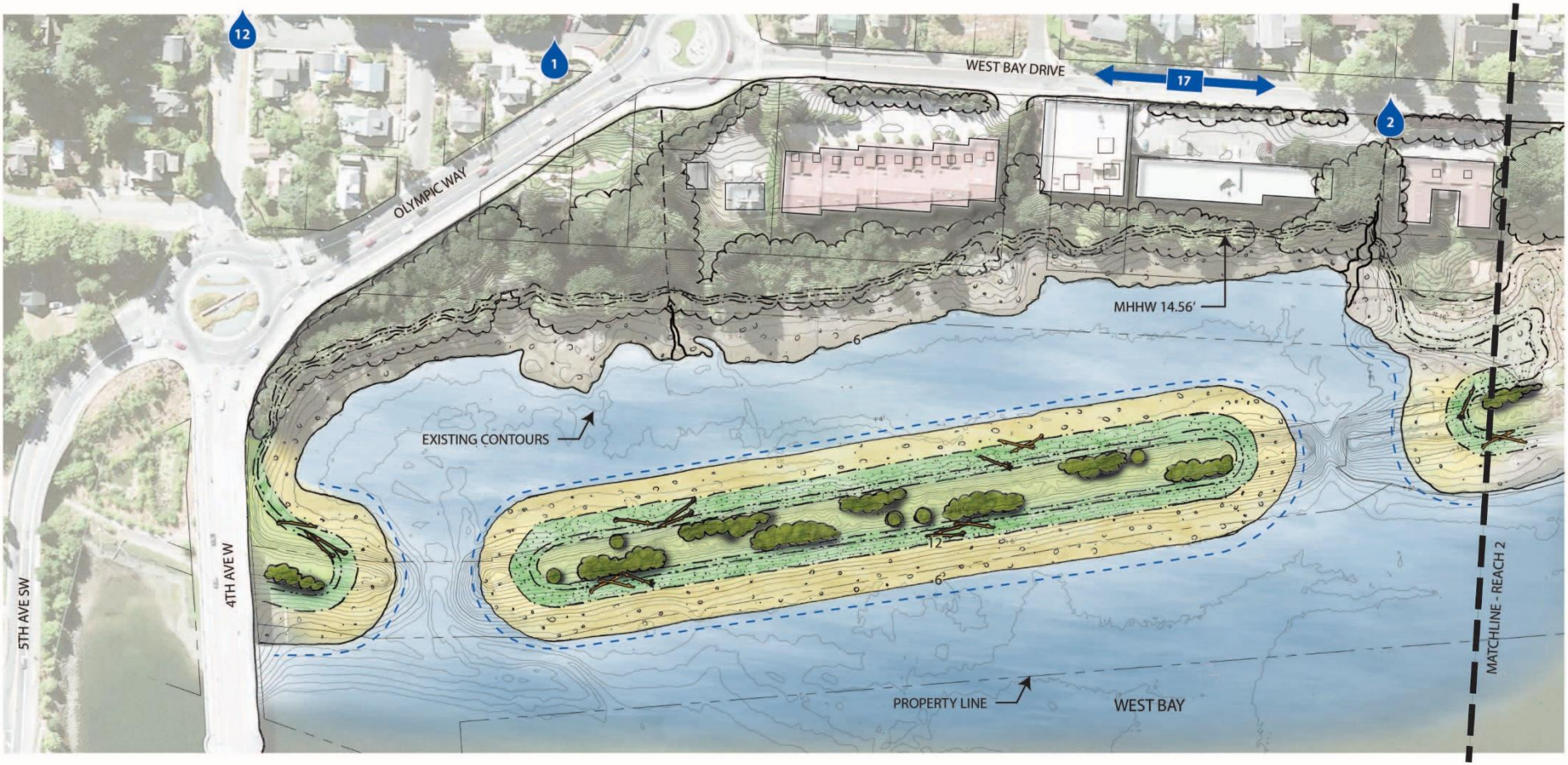


West Bay Park Alternative #2

Reach 2 - West Bay Park South Alternative 2



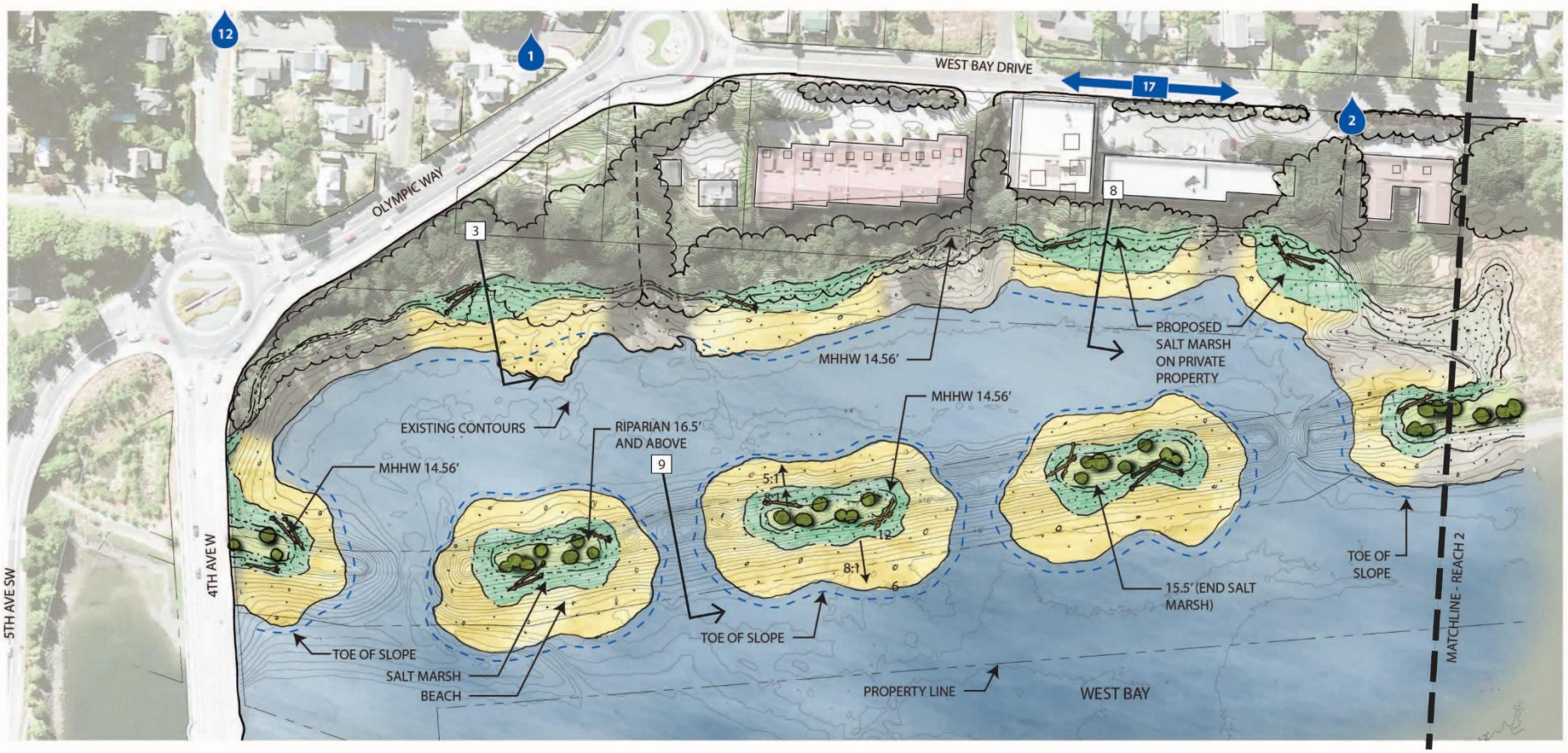
Lagoon Alternative #1



Reach 1 - Lagoon Alternative 1

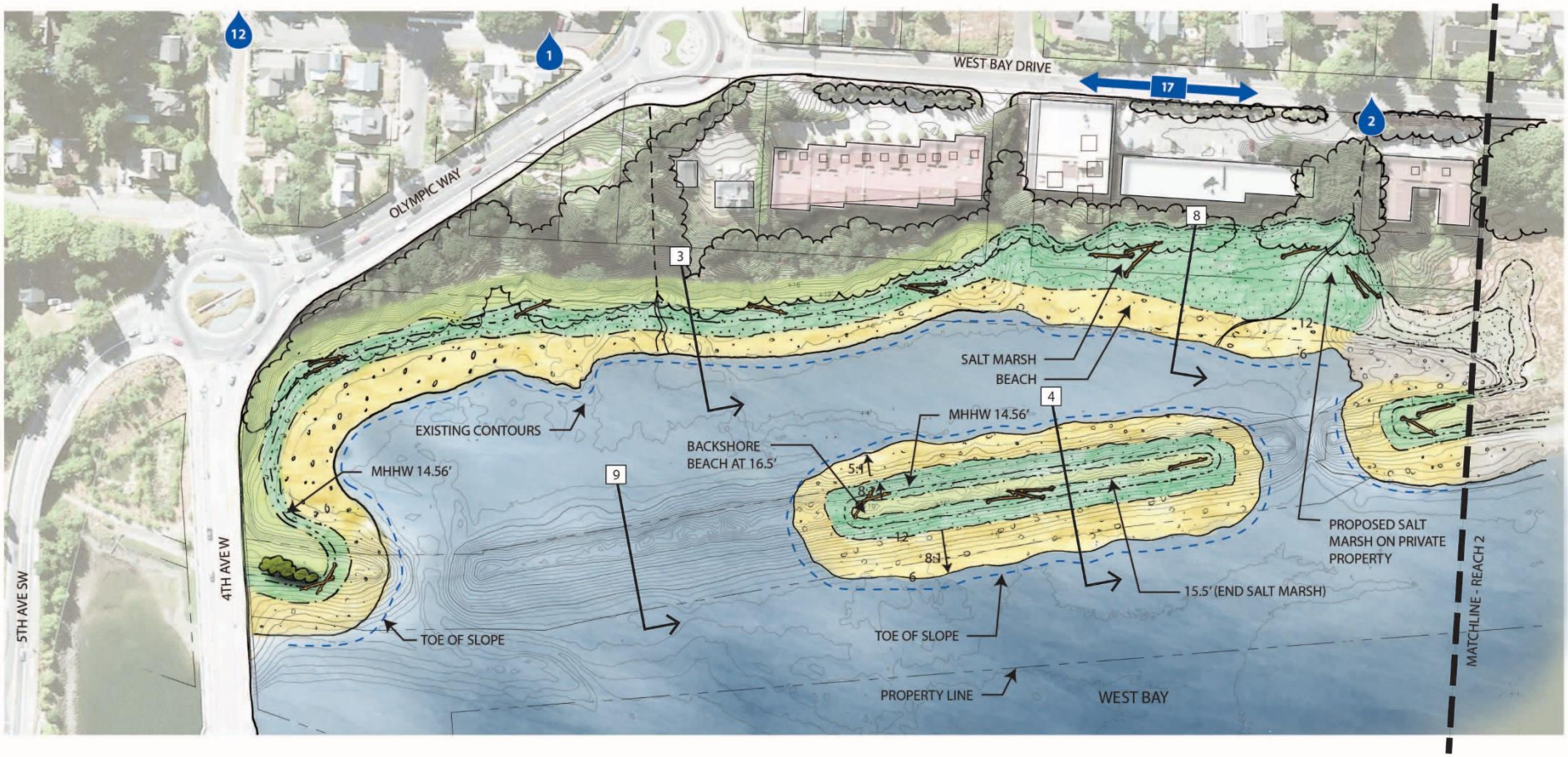
West Bay Environmental Restoration Assessment

Lagoon Alternative #2



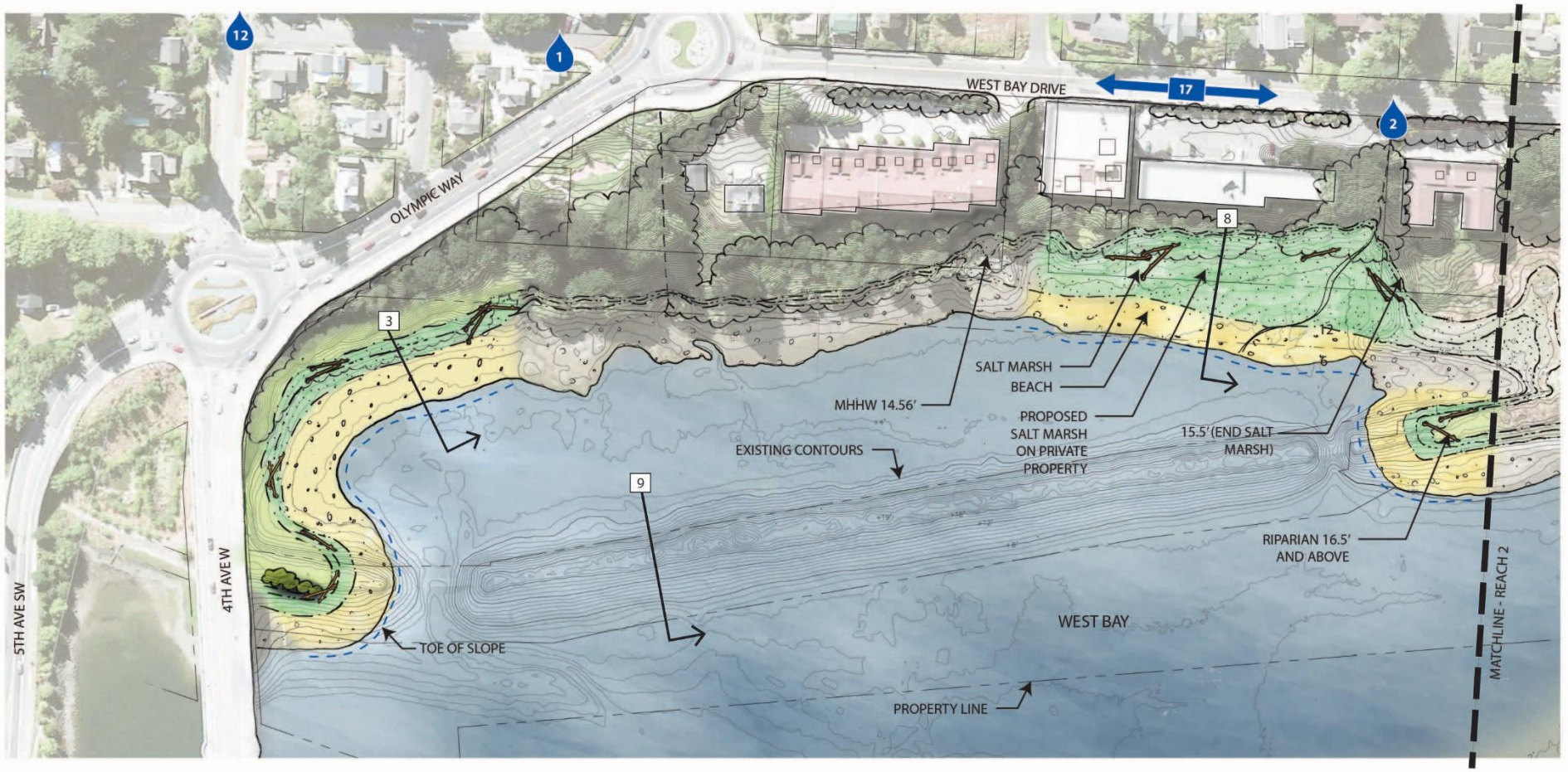
Reach 1 - Lagoon Alternative 2

Lagoon Alternative #3



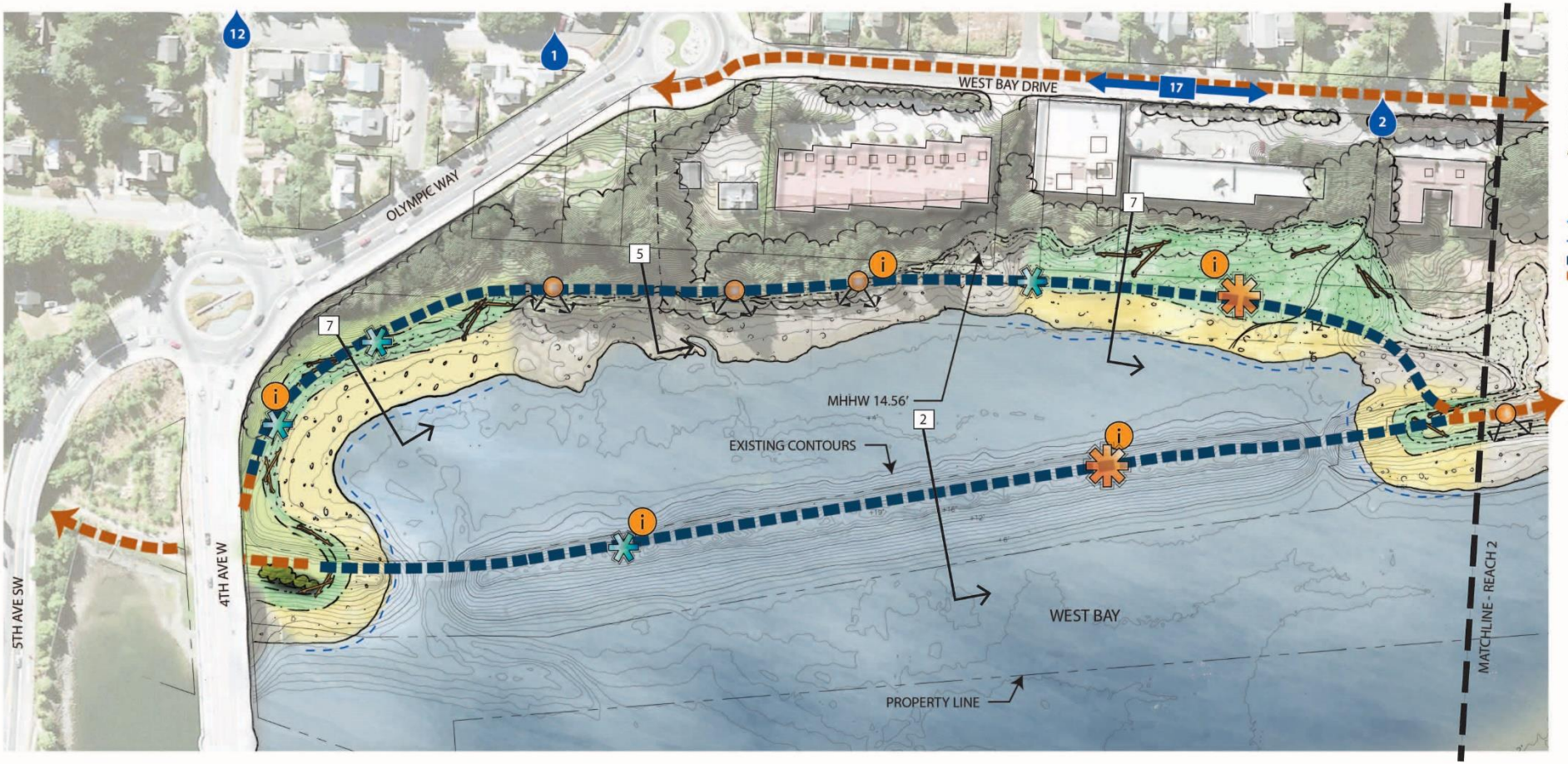
Reach 1 - Lagoon Alternative 3

Lagoon Alternative #4



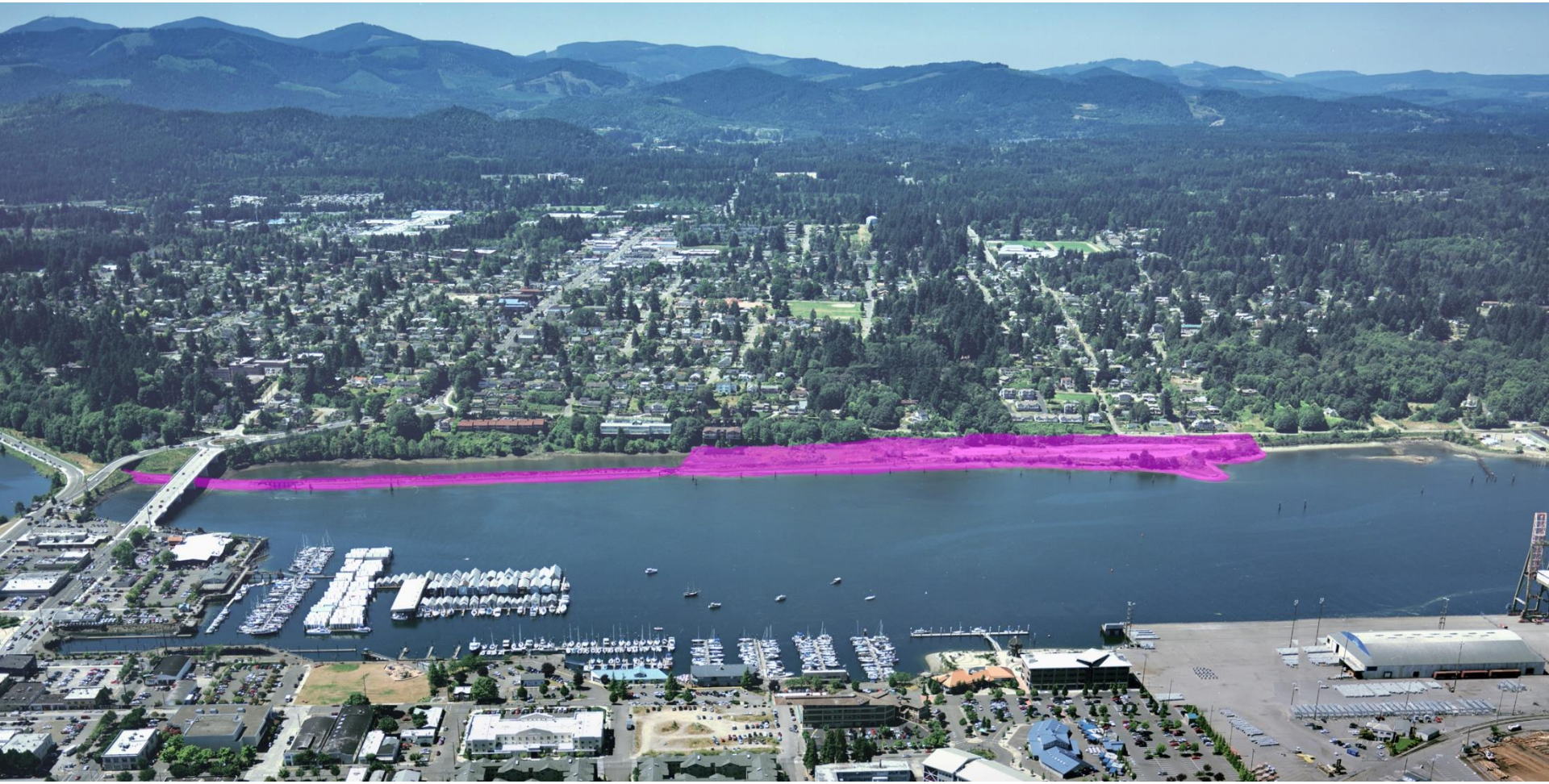
Reach 1 - Lagoon Alternative 4

Lagoon Trail Options

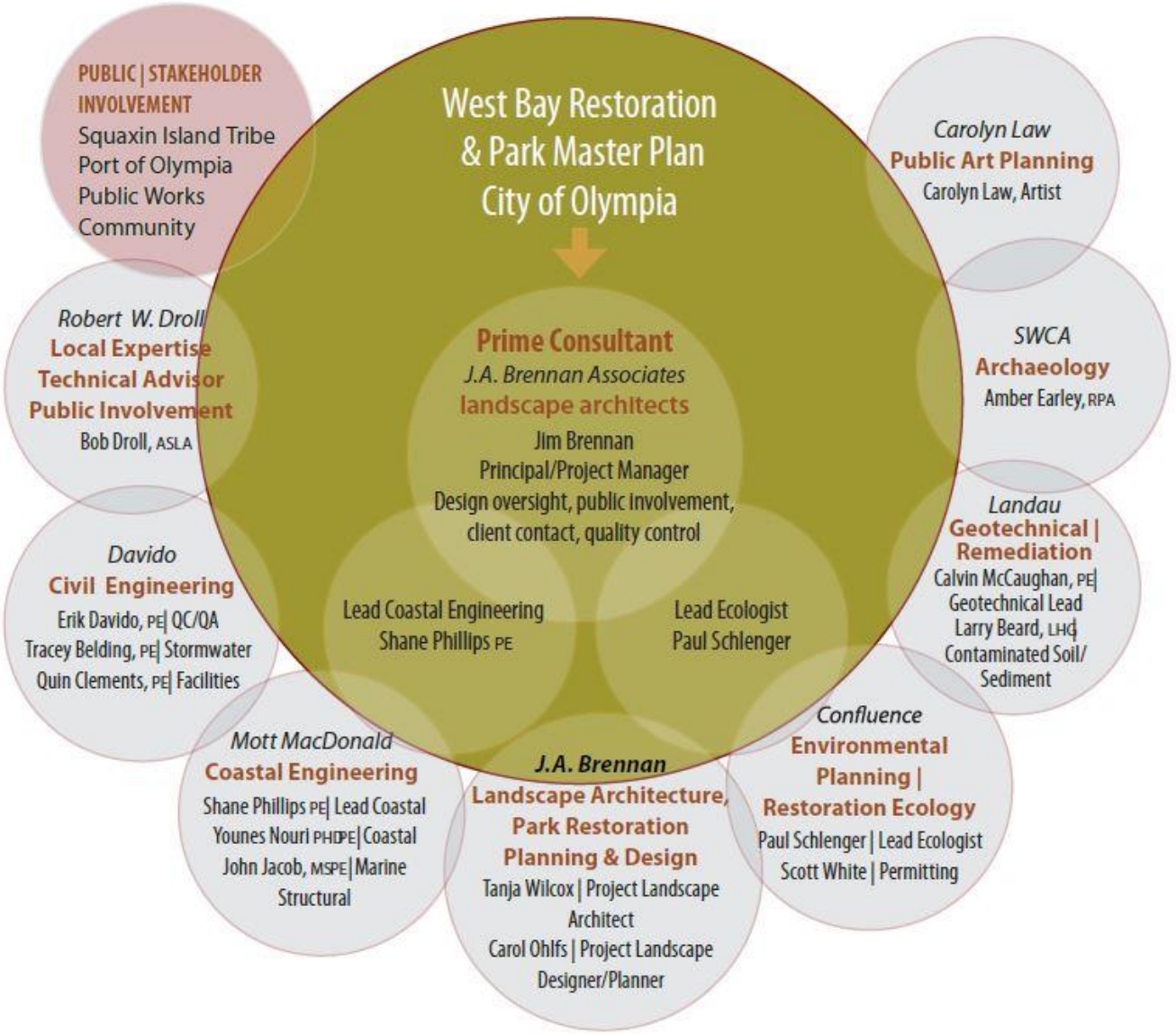


Reach 1 - Lagoon Alternative 4

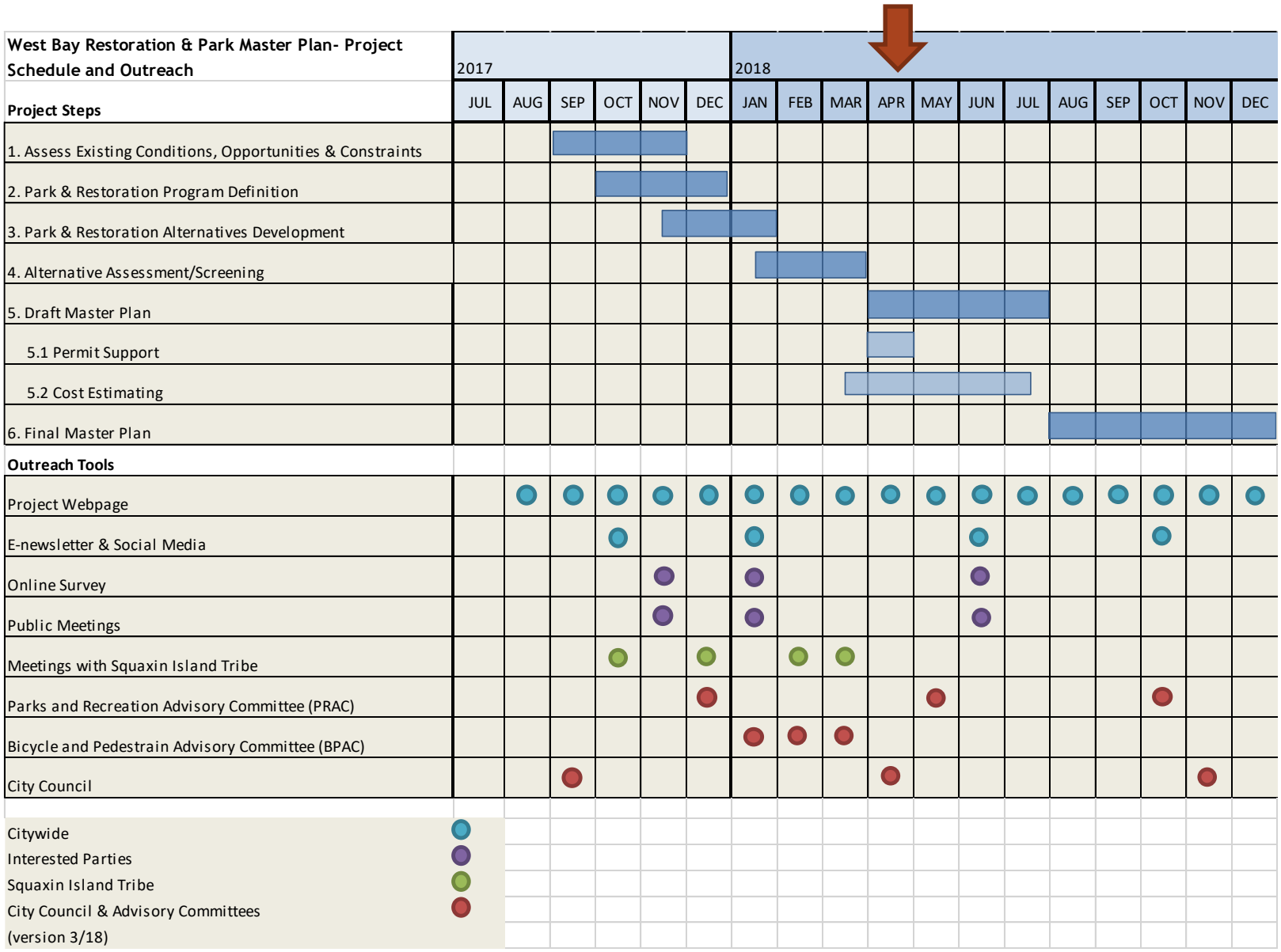
West Bay Park



Consultant Team

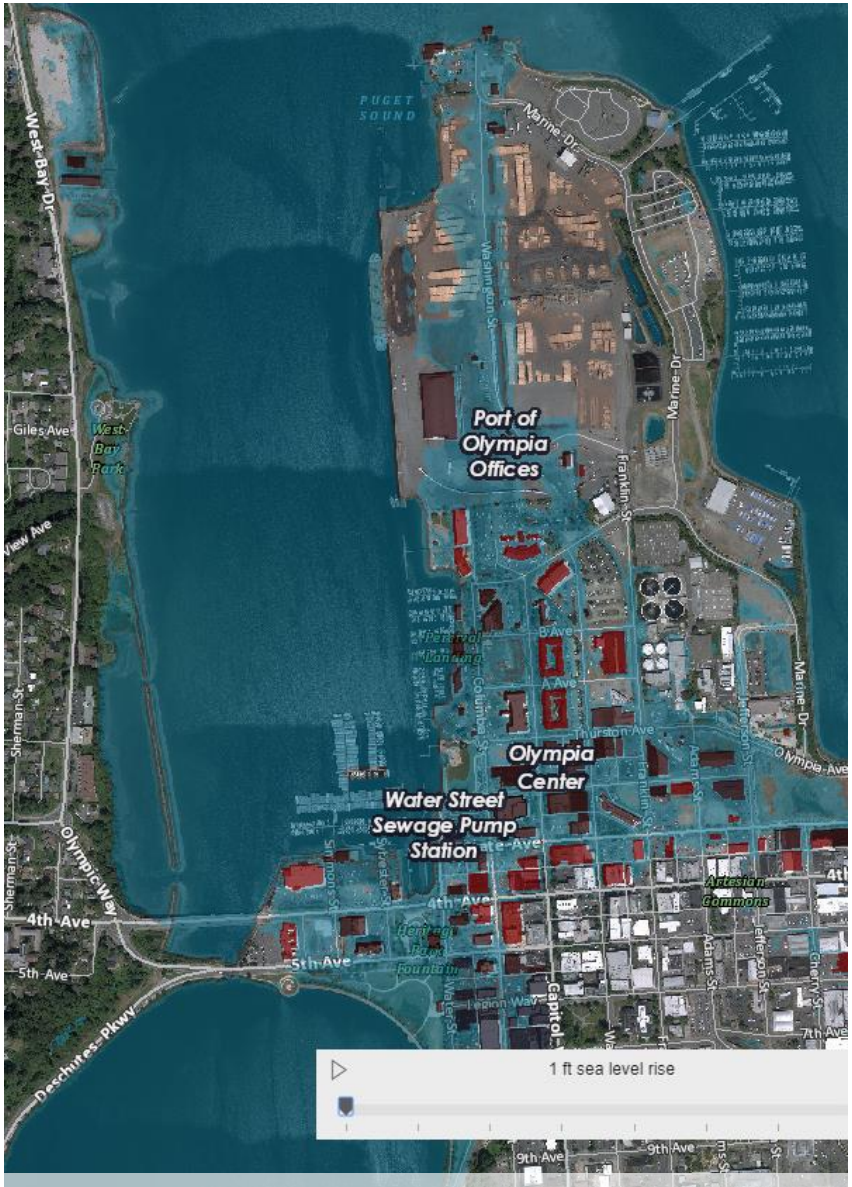


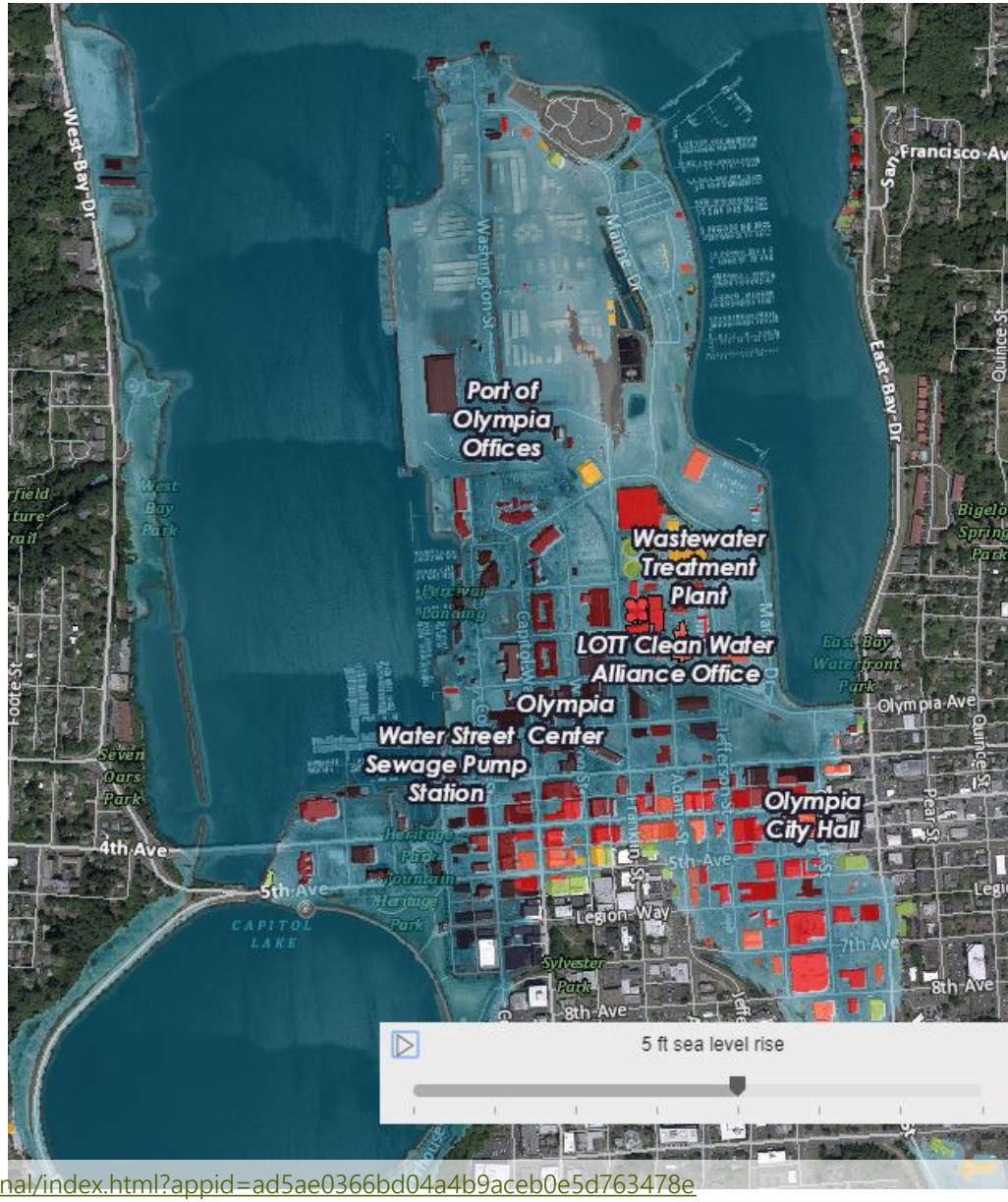
Master Plan Schedule



Science & Engineering Analysis

Sea Level Rise





https://olympiawa.maps.arcgis.com/apps/MapJournal/index.html?appid=ad5ae0366bd04a4b9aceb0e5d763478e

West Bay Coastal Processes – General Overview

Lake or Estuary compatibility

Waves and erosion potential

Sediment dynamics

Openings sized for:

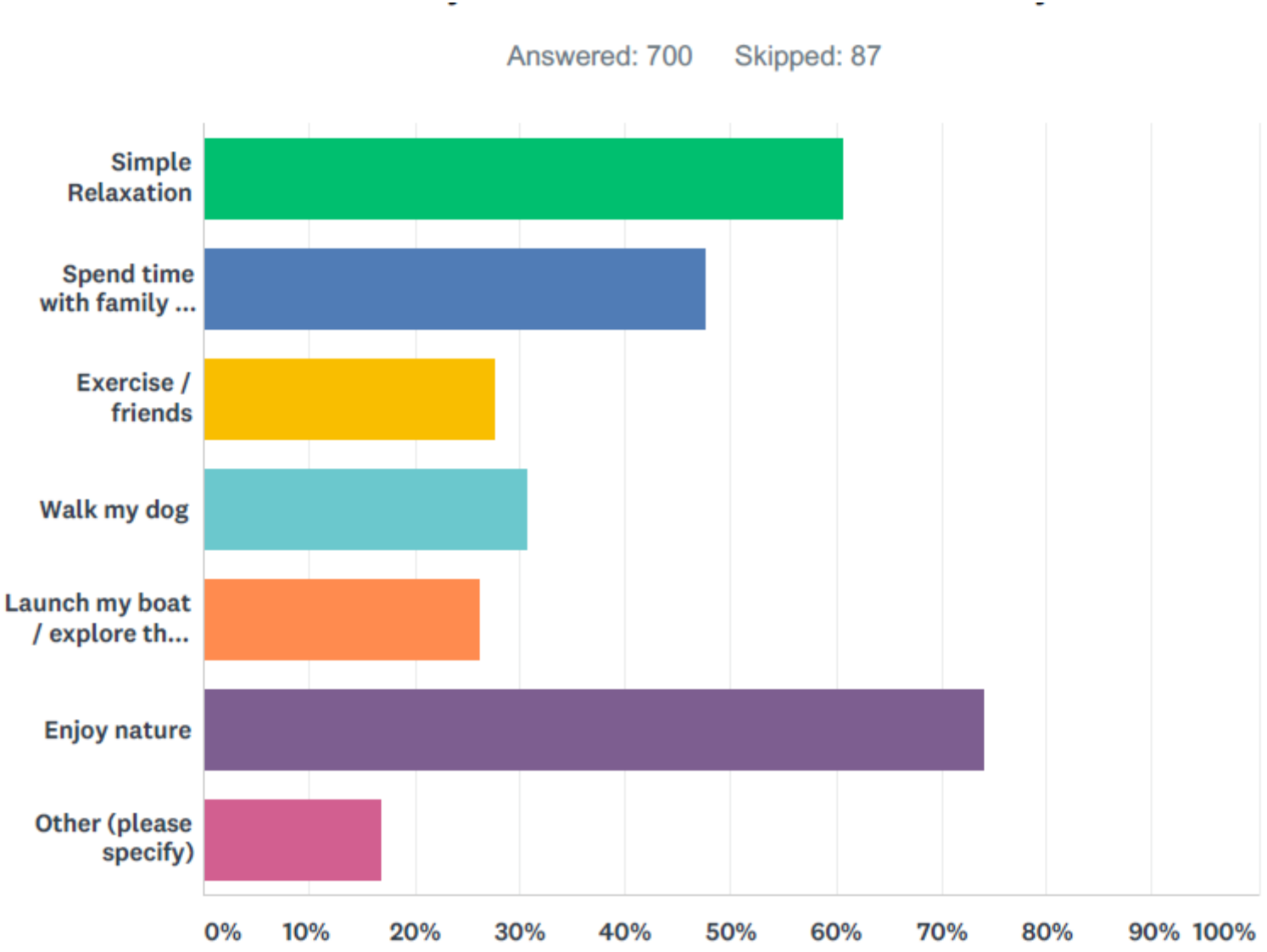
- Fish passage
- Flushing

PUBLIC INPUT


EXIT
EXIT
STORAGE

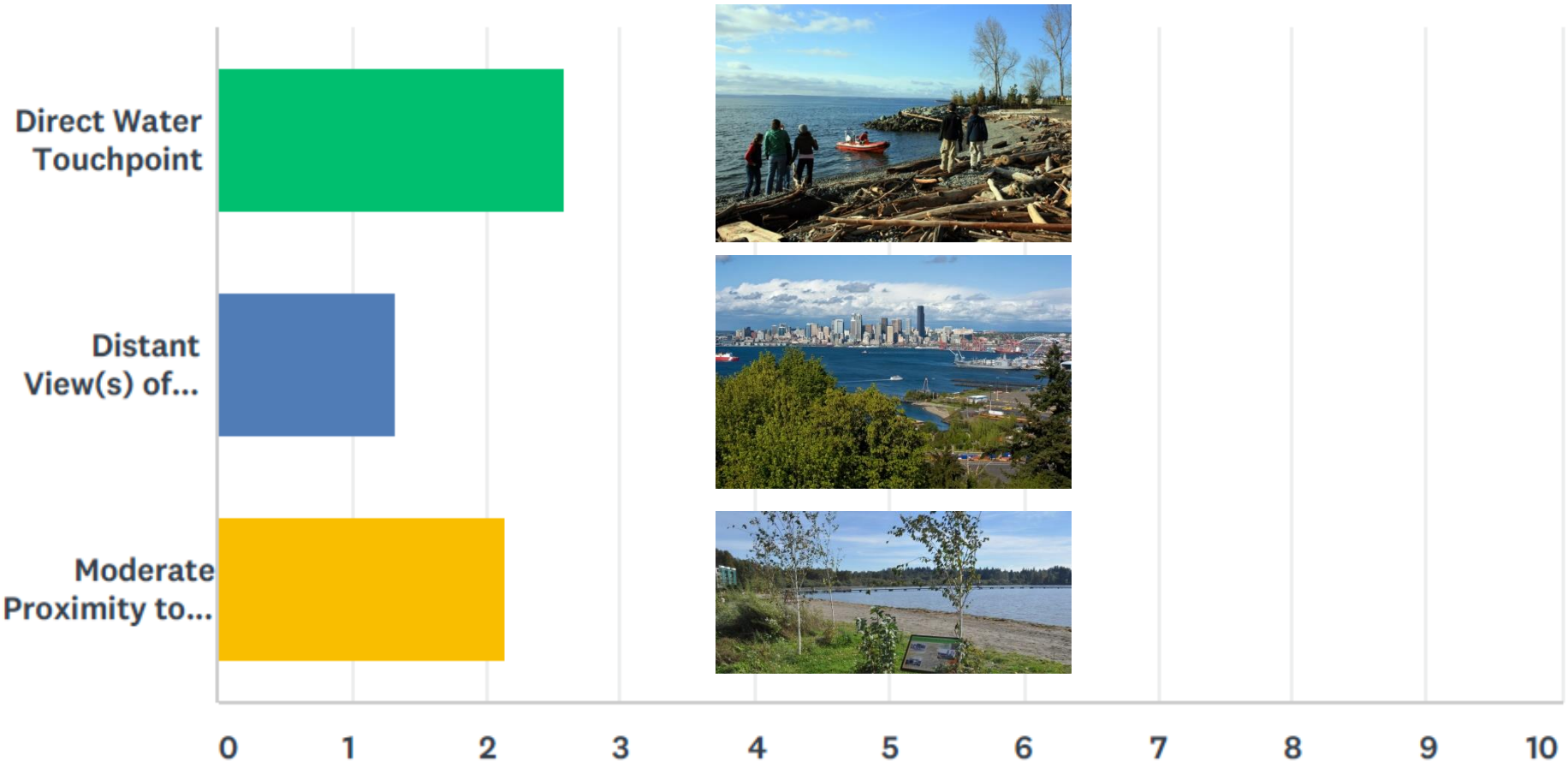

EXIT
STORAGE

What do you like to do at West Bay Park?



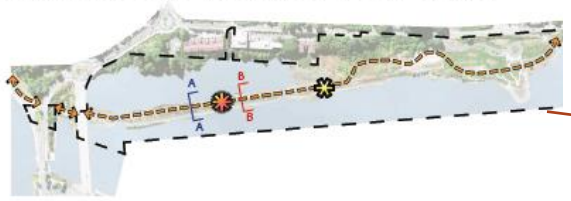
Please rank each of the following water interaction opportunities (1 = most preferred, 3 = least preferred)

Answered: 708 Skipped: 79

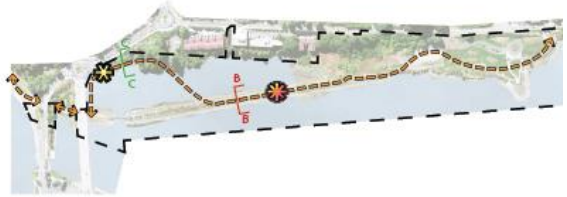


In which location would you prefer the trail for West Bay?

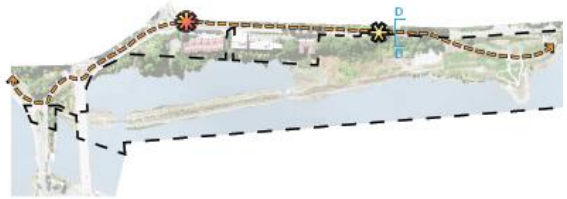
Option A:
Railroad Berm (Elevated or On-Grade)

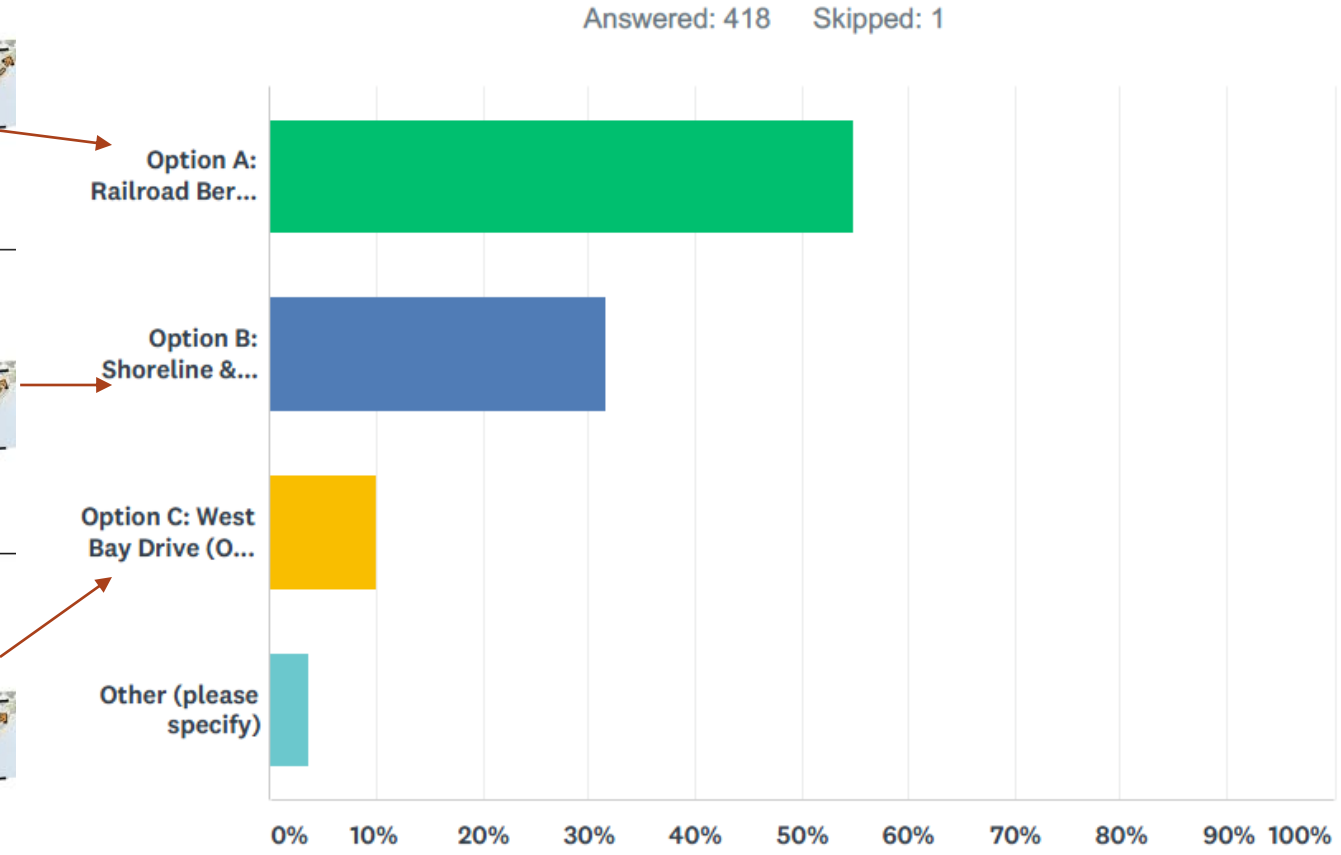


Option B:
Shoreline & Railroad Berm (Elevated)



Option C:
West Bay Drive (On Grade)





West Bay Restoration & Park Master Plan
Olympia Parks, Arts & Recreation

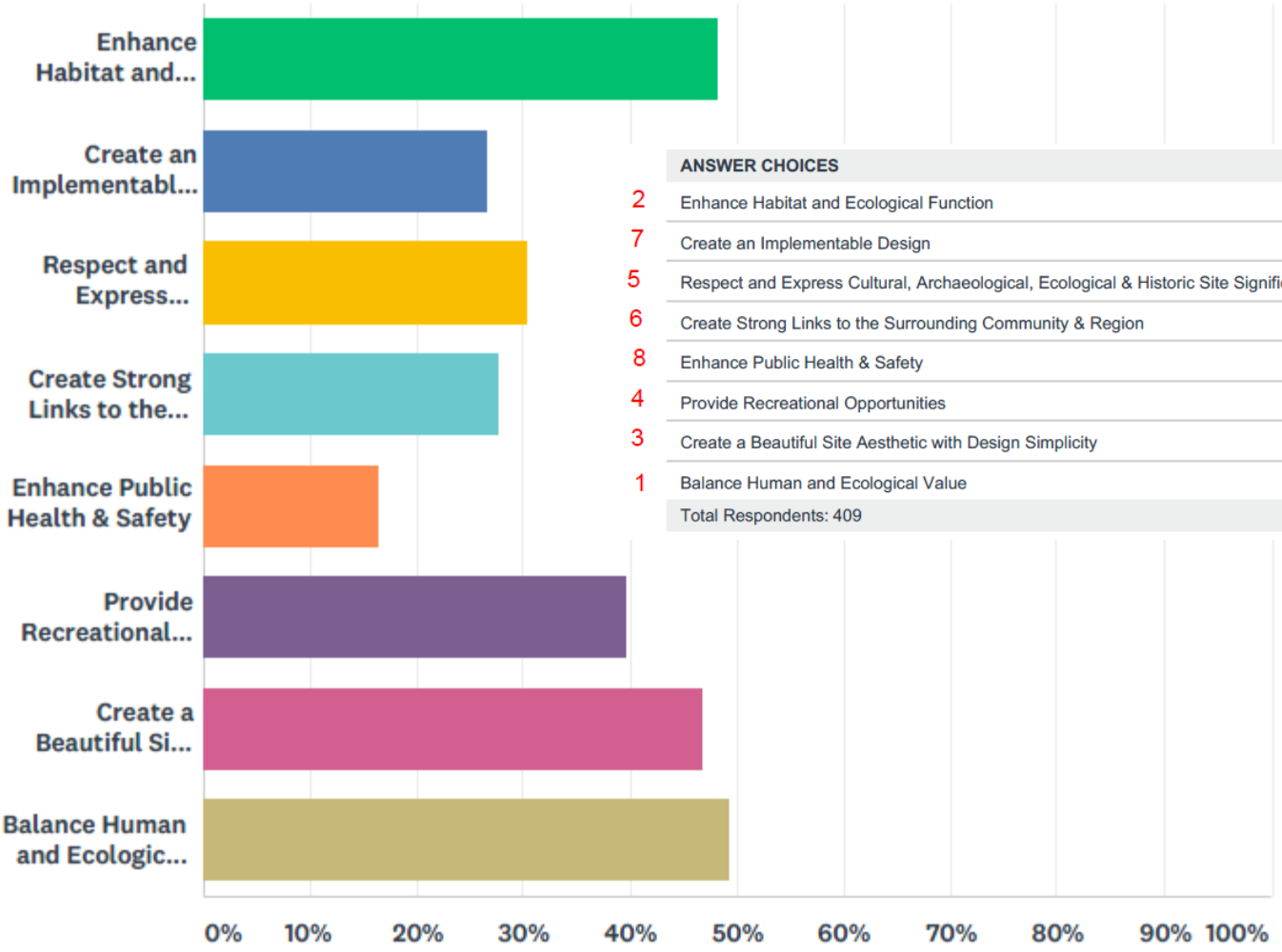
85% of respondents preferred a trail in RR berm alignment or along shoreline and RR berm

Design Principles

1) Enhance Habitat & Ecological Function
2) Create An Implementable Design
3) Respect And Express Cultural, Archaeological, Ecological & Historic Site Significance
4) Create Strong Links To the Surrounding Community & Region
5) Enhance Public Health & Safety
6) Provide Recreational Opportunities
7) Create A Beautiful Site Aesthetic With Design Simplicity
8) Balance Human Use and Ecological Value

Which design principles do you think are most important for the project?

Answered: 409 Skipped: 10



	ANSWER CHOICES	RESPONSES	
2	Enhance Habitat and Ecological Function	48.17%	197
7	Create an Implementable Design	26.65%	109
5	Respect and Express Cultural, Archaeological, Ecological & Historic Site Significance	30.32%	124
6	Create Strong Links to the Surrounding Community & Region	27.63%	113
8	Enhance Public Health & Safety	16.38%	67
4	Provide Recreational Opportunities	39.61%	162
3	Create a Beautiful Site Aesthetic with Design Simplicity	46.70%	191
1	Balance Human and Ecological Value	49.14%	201
	Total Respondents: 409		

Master Plan Alternatives

ALTERNATIVE 1

WEST BAY RESTORATION & PARK MASTER PLAN

Olympia

j.a. brennan associates PLLC
Landscape Architects & Planners

SCALE: 1" = 100'
0' 100 200

DATE:
JANUARY 17, 2018

IN ASSOCIATION WITH:

MOTT MACDONALD
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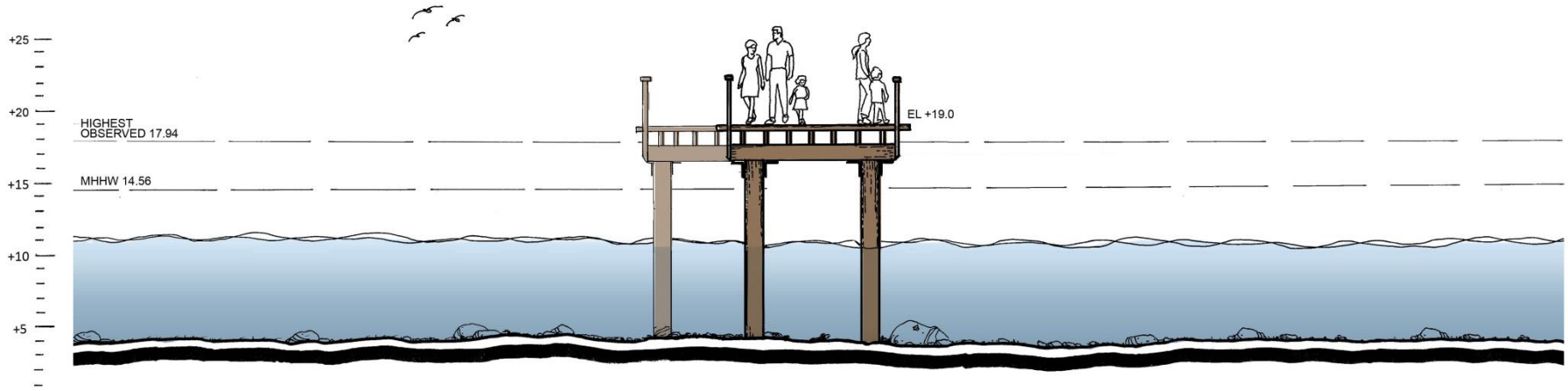
LANDAU ASSOCIATES
CAROLYN LAW
SWCA
R.W. DROLL

Alternative 1



Boardwalks

ALTERNATIVE 2

WEST BAY RESTORATION & PARK MASTER PLAN

Olympia

j.a. brennan associates PLLC
Landscape Architects & Planners

SCALE: 1" = 100'
0' 100 200

DATE:
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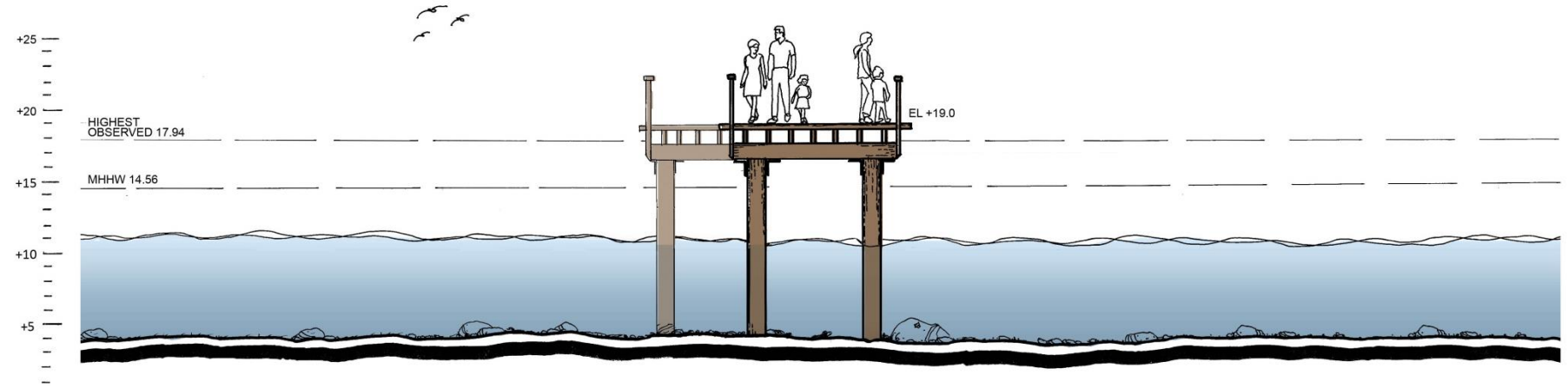
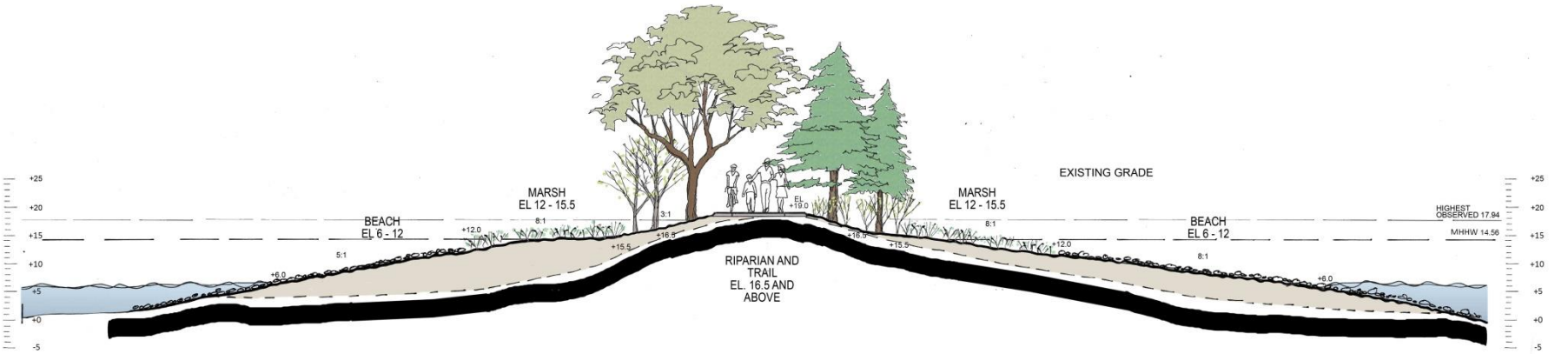
Alternative 2





ALTERNATIVE 3

WEST BAY RESTORATION & PARK MASTER PLAN

Olympia

j.a. brennan associates PLLC
Landscape Architects & Planners

SCALE: 1" = 100'
0' 100' 200'

DATE:
JANUARY 17, 2018

IN ASSOCIATION WITH:

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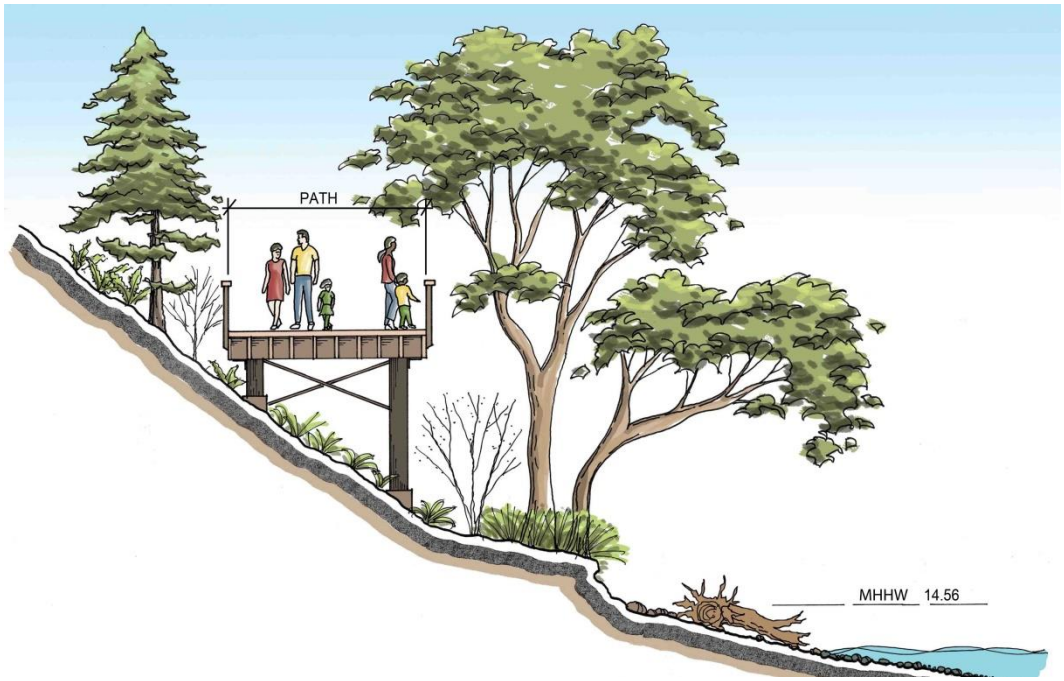
LANDAU ASSOCIATES
CAROLYN LAW
SWCA
R.W. DROLL

Alternative 3



ALTERNATIVE 5

WEST BAY RESTORATION & PARK MASTER PLAN

Olympia

j.a. brennan associates PLLC
Landscape Architects & Planners

SCALE: 1" = 100'
0' 100 200

DATE:
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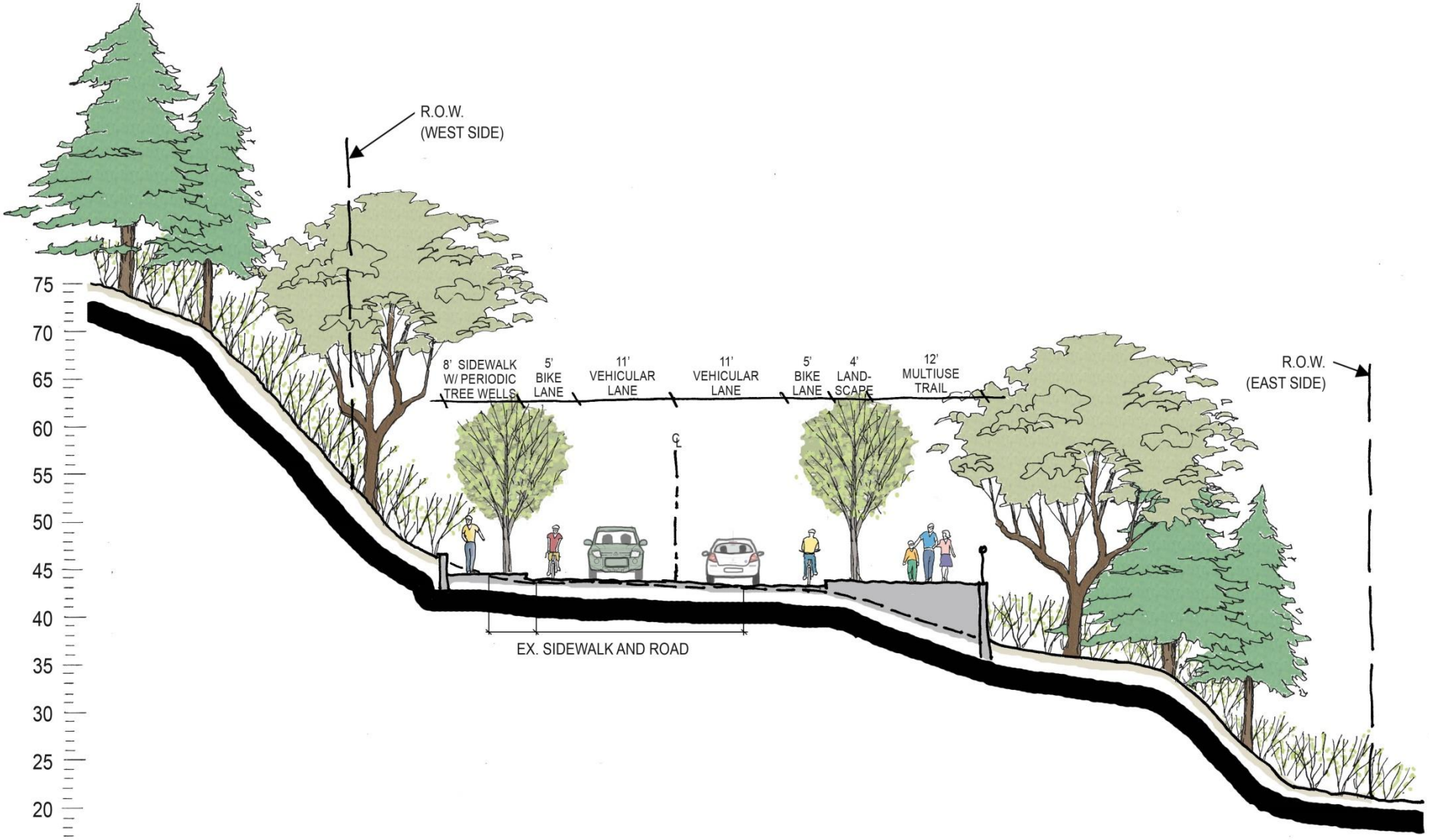
Alternative 5



Alternatives Screening Workshop

j.a. brennan ASSOCIATES PLLC
landscape architects & planners
2701 First Avenue | Suite 510 | Seattle, WA 98121
t | 206.583.0620 | w | jabrennan.com

Executive Summary

To: Laura Keehan, Olympia Parks, Arts & Recreation Department Date: March 9, 2018

From: J.A. Brennan Associates Team Project: West Bay Restoration and Park Master Plan

Re: Alternative Screening

The purpose of this memo is to summarize the design and alternative screening process for the West Bay Restoration and Park Master Plan. Since October 2017, the City of Olympia Parks and Recreation Department has been leading the design process for the development of the West Bay Restoration and Park Master Plan. The project has an ambitious goal of combining a robust ecological restoration of the site's various ecosystems with a multi-use trail and increased passive recreation opportunities. The park will expand from its current 4 acre developed area to an additional 13 acres of restored habitat and developed park on Budd Inlet. The habitat restoration opportunities include expansion of aquatic areas, enhanced intertidal habitat slopes and substrates, daylighted creek(s) with expanded sub-estuaries, improved water quality through treatment, and enhanced riparian corridor conditions.

The West Bay Restoration and Park Master Plan project builds upon the City of Olympia's 2016 West Bay Environmental Restoration Assessment. The City decided to remain consistent with the coastal engineering and landscape architectural design consultants between the Environmental Restoration Assessment and subsequent Park project, thereby retaining greater continuity in the background of the site and project. Led by J.A. Brennan Associates, a Seattle-based landscape architecture firm with extensive experience in both restoration and waterfront park projects, the West Bay Restoration and Park Master Plan design team consists of coastal engineers, fisheries biologists, civil and geotechnical engineers, an artist, archaeologist and local landscape architect to thoroughly address every unique aspect found at this complex site. The City of Olympia's project process has been highly interdisciplinary and collaborative, soliciting regular input from the Squaxin Island Tribe (Natural Resources and Cultural Resources Departments), city staff, and the Olympia community. To date, over 10 internal meetings and 2 public meetings have been held to identify guiding design principles, identify priorities, and develop and review potential options for the West Bay Restoration & Park Master Plan. In addition, two online public surveys were conducted to solicit broader public feedback. Throughout this process, it has become abundantly clear that there exists substantial shared interest between all parties; chiefly that enhancing habitat and ecological function are of utmost importance, and that park users are willing to reduce their degree of access to active recreation opportunities so that habitat can be protected and restored.

The design team developed 5 conceptual alternatives for the project area guided by prior design, science and engineering during the West Bay Environmental Restoration Assessment, and updated and refined project-guiding design principles developed with city staff, tribal and community input. The alternatives share many traits including: daylighting Garfield Creek, water quality treatments, riparian vegetation enhancement, and intertidal habitat improvements including removal of fill, but differ from each other in a few key ways, which are outlined below:

1. removal of existing rail berm fill/intertidal restoration:
    - full removal of the rail berm
    - removal of portions of the berm to form habitat islands
    - removal of one third to one half of the berm to form one habitat island
2. the routing of a multi-use trail:
    - along the existing rail alignment next to the Port lagoon
    - along West Bay Drive
    - across and along the shoreline of the Port lagoon

DESIGN PRINCIPLE 1 ENHANCE HABITAT AND ECOLOGICAL FUNCTION	ALTERNATIVE 1	ALTERNATIVE 2	ALTERNATIVE 3	ALTERNATIVE 5
Design based on best available science	GOOD	EXCELLENT	EXCELLENT	GOOD
All habitat and ecological features are compatible with the Deschutes River Estuary restoration or existing Capitol Lake conditions	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Restores high functioning fish and wildlife habitat (aquatic, wetland & riparian) appropriate for the ecological setting	GOOD	GOOD	GOOD	GOOD
Daylights Garfield Creek and South Stem of Garfield Creek	FAIR	GOOD	GOOD	GOOD
Improves juvenile fish habitat and connectivity along shoreline	EXCELLENT	EXCELLENT	EXCELLENT	EXCELLENT
Restores ecological and physical processes	GOOD	EXCELLENT	EXCELLENT	EXCELLENT
Creates a site that provides ecosystem services including carbon sequestration and stormwater treatment	FAIR	GOOD	GOOD	GOOD
Enhances opportunities for restoration of Olympia Oysters	POOR	POOR	POOR	POOR
Improves water and sediment quality	FAIR	GOOD	GOOD	FAIR
Is adaptable to future environmental conditions ,including sea level rise, and avoids new park infrastructure in the projected inundation area for 2100.	FAIR	GOOD	GOOD	GOOD

WEST BAY RESTORATION & PARK MASTER PLAN
ALTERNATIVE SCREENING MATRIX

Olympia j.a. brennan ASSOCIATES PLLC

Consultant Team Recommendation

- ✓ Very high ecological benefit
- ✓ Community support
- ✓ Lower cost

ALTERNATIVE 2

WEST BAY RESTORATION & PARK MASTER PLAN

Olympia

j.a. brennan

DATE: JANUARY 17, 2018

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Next Steps

- Continue discussions with Squaxin Island Tribe related to preferred alternative
- Move forward with detailed design & completion of Master Plan (2018)
- Pursue Grants (2020-2024)
- Update Parks Plan (2022)
- Next Phase of Construction (2022-2026)

Questions & Discussion