DESIGN VISIONS

FORMER HATCHERY SITE
Site Description + Assessment
Team 1: Homing by Adam Carreau + Weicheng Li
Team 2: Confluence by Sophie Krause + Elijah Vantreese

UNION BAY NATURAL AREA SITE
Site Description + Assessment
Team 3: Immersion by Nina Mross
Team 4: Motion of Nature by Jingjing Bu + Jiyoung Park
FORMER HATCHERY SITE: DESCRIPTION AND ASSESSMENT

Aerial view of south and east campus looking north. Nearby landmarks and their distance to the existing hatchery site is noted. Small fish icons represent the path of juvenile salmon heading out to the ocean, and large fish icons represent the deep water path of returning adults.
EXISTING SITE CONDITIONS

The plan illustrates significant buildings, facility and transportation connections. The opaque masses are buildings indicated by the 2018 UW Seattle Campus Master Plan.
EXISTING SITE CONDITIONS

The image below indicates the various transportation systems present along the site. Photo locations and square footages of facilities are included.

**Portage Bay Building**
Rearing Room: 3,000 sq. ft.
Wet Research Lab: 400 sq. ft. x 3

**Holding Pond**
15,400 sq. ft.

**Rearing Facilities**
Total Parcel: 6,250 sq. ft.
Large Raceway: 700 sq. ft.
Small Raceway: 100 sq. ft. x 6
Tanks: 180 sq. ft. x 2

**Pump Station**
500 sq. ft.
SITE PHOTOS

These photos show the current condition of the existing hatchery.

Figure 1. Rearing Channels

Figure 2. Rearing Pools

Figure 3. Raceway

Figure 4. Homing Pond
SITE PHOTOS
These photos show the adjacent site context.
SITE MATERIALS
The images of the site materials are ordered from hard to soft.
TEAM 1: HOMING
BY ADAM CARREAU + WEICHENG LI

DESCRIPTION
Our design was driven by the idea of natal homing; a characteristic in which adult animals return to their place of birth to reproduce. The Portage Bay site was the birthplace of the Aquatic Research Center in the early 60’s so it is fitting that the center should return to that portion of campus. Furthermore, stretching this idea allowed us to envision a center that would preserve the existing building and the site materials, while maximizing the building square footage on its current footprint. The additional square footage gained by extending the building four stories upward, will allow 90% of the SAFs faculty and student spaces to be relocated to this building. We believe incorporating phasing will allow for immediate implementation, while enhancing connections to the facilities and waterfront for all. The introduction of state of the art flexible indoor research rooms, raceways and crowding mechanisms will provide the researchers with the necessary equipment to enhance aquatic species rearing techniques while lending an abundance of space for research and community outreach. The envisioned homing pond structure creates an ideal environment for retuning salmon and smolts soon to depart on their journey to the ocean, while being a flexible space, allowing for community outreach programs and activities, to enhance student and faculty life on campus.

GOALS
- Project phasing for immediate implementation
- Preserve existing building and site materials
- Maximize building square footage on current footprint
- Enhance connections between the facility and visitors
- Enhance connections to the waterfront
- Increase amenity space for public and UW users
DESIGN INSPIRATION

Our inspiration was drawn from the salmons natal homing ability. Much like salmon returning to their stream of origin, we felt the ARC should return home to its original location on campus.

“People tend to gravitate towards the homing pond which resulted in unintentional outreach.”
-Jon Wittouck

“I always enjoyed going to the homing pond and watching the salmon. It feels like we are missing something from campus now.”
-Iain Robertson
SHORELINE CONNECTIONS
From the 2018 UW Seattle Campus Master Plan
PROPOSED ACTIVITY NODES

Along the waterfront trail, the 2018 UW Seattle Campus Master Plan proposes a series of activity nodes. The former hatchery site is one of these nodes.
CITY DESTINATIONS

The ARC could become a destination for students and faculty as well as a tourist destination, much like the Ballard Locks or Pike Place Market.
INTERPRETATION TRAILS

We envisioned interpretive elements along the waterfront trail and into main campus, illustrating SAFS history, the salmon life cycle, the altered hydrology along the shipping canal, and First Nations’ histories.
Phase 1 is focused on repairing and reinstalling the facilities so that the salmon run can start again as soon as possible. At the same time, the waterfront deck and homing pond are built up.
PHASE 2

Phase 2 is about installing cold water storage and getting cold water to facilities whenever needed for research and habitat.
Phase 3 will connect the south campus with the central campus, following the goals of the 2018 UW Seattle Campus Master Plan. The landscape is shaped as a human ladder, matching the fish ladder theme.
PHASE 4

Phase 4 maximizes on-site square footage by raising part of the building to the 105’ height limit under the current code, an connecting the west and east side of the building by opening up the ground floor and making the south end of the building into a UW cafe.
SITE PLAN
Adapted from the 2018 UW Seattle Campus Master Plan.
BUILDING FLOOR PLANS

Ground Floor; Floors 2-4; Floors 5-8
HOMING POND SEASONAL USAGE

TRADITIONAL HOMING PONDS

ENVISIONED HOMING PONDS

- Fish rearing and spawning
- Evening event space
- Community amenity
SITE SECTION
Through building looking east.
SITE SECTION

Through South Campus Green looking east.
The Fishery Teaching and Research Building and the Marine Studies Building will be demolished when the West Campus Green is built, resulting in the loss of about 35,800 sf for SAFS. By maximizing building square footage (approximately 32,500 sf) with the proposed Portage Bay Building renovation the ARC, could replace up to 91% of the square footage.

BUILDING CODE + VOLUME ANALYSIS

![Diagram showing building locations and volume analysis]
FORESTED PLANTING PLAN
WATERFRONT PLANTING PLAN

Trees
- Acer circinatum
  - Vine Maple
- Acer truncatum
  - Bigleaf Maple
- Alnus rubra
  - Red Alder
- Salix lucida
  - Pacific Willow

Shrubs
- Cornus stolonifera
  - Red Osier Dogwood
- Philadelphus lewisia
  - Mock Orange
- Physocarpus opulifolius
  - Pacific Ninebark
- Rubus spectabilis
  - Salmonberry

Perennials
- Aquilegia formosa
  - Western Columbine
- Aster subspicatus
  - Douglas Aster
- Iris tenax
  - Oregon Iris
- Viola globella
  - Stream Violet
**SALMON FLOW DIAGRAM**

This image shows the areas that support salmon production, as well as the massing of the new building in conjunction with redevelop of the area included in the 2018 UW Seattle Campus Master Plan.
Character Rendering

View looking east at renovated building and café.
VIEW FROM CENTRAL AXIS

This image depicts the ARC as you descend the central axis. Glass walls on the rearing channels allow visitors an underwater look at the developing aquatic species.
WATERFRONT DECK VIGNETTE

This image illustrates the black locust deck adjacent to the waterfront trail. The topography has been lowered in order to connect visitors to the waterfront and to create a transparent window into the homing pond.
VIEW FROM THE 2F BALCONY

This image depicts the ARC and the waterfront trail from the deck above the cafe, looking southwest.