

SEPA ENVIRONMENTAL CHECKLIST

Purpose of checklist:

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants:

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for Lead Agencies:

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals:

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

A. Background [\[HELP\]](#)

1. Name of proposed project, if applicable:

Angle Lake Park Waterfront Improvements

2. Name of applicant:

City of SeaTac

3. Address and phone number of applicant and contact person:

Applicant: City of SeaTac
4800 South 188th Street
SeaTac, Washington 98188

Agent: Sasha Ertl
Farallon Consulting, L.L.C. dba Grette Associates
2709 Jahn Ave NW, Suite H5
Gig Harbor, Washington 98335

4. Date checklist prepared:

February 17, 2025

5. Agency requesting checklist:

City of SeaTac

6. Proposed timing or schedule (including phasing, if applicable):

November 2025 through December 2026

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No future plans are connected with this proposal.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

Joint Aquatic Resources Permit Application (JARPA) Form
Coastal Zone Management Consistency Form
Washington Department of Ecology Water Quality Pre-Filing Meeting Request Form
Standard Hydraulic Project Approval Application
City of SeaTac Shoreline Substantial Development Permit Submittal Checklist
Critical Areas Report
Water Availability Letter
Sewer Availability Letter

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No pending applications.

10. List any government approvals or permits that will be needed for your proposal, if known.

Federal:

US Army Corps of Engineers Section 404 Permit
Coastal Zone Management Act Consistency Determination

State of Washington:

WDFW Hydraulic Project Approval
Washington Department of Ecology (Ecology) Section 401 Certification

City of SeaTac:

Shoreline Substantial Development Permit
SEPA Determination

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The City of SeaTac (City) is proposing to replace the existing floating dock, connecting pier, gangways, and boat launch and to install a new ADA-accessible kayak access float, swim ramp and access swim stairs, and replenish scoured beach material in the nearshore at Angle Lake Park in SeaTac, Washington (See JARPA Sheets). The proposed project consists of conducting work below and above the Ordinary High Water (OHW) line for the purpose of replacing select portions of the existing waterfront park facility and installing new components at the park. The replacement and new structures will be designed to make the facility more accessible and improve public safety for swimmers.

Angle Lake Park provides recreational opportunities for the public in the forms of swimming, fishing, and boating. The existing floating dock, connecting pier, and boat ramp are beyond their useful life, and are in need of replacement. Further, after two recent fatalities, the City is committed to improving public safety at the facility. Safety concerns with the existing conditions at the site include:

- The pier and floating docks do not include guardrails.
- The finger float extends into the swimming area, so swimmers waterward of the finger float have to swim around the float to get to water shallow enough to stand in (see JARPA Sheet 2).
- The lower beach area below the concrete stairs has been eroded away, resulting in a large step for swimmers to get in and out of the lake (see photo; note: the photo shows the water at low water; during the summer, the water is at the elevation of the red line).
- There has been significant scour that is starting to undermine the existing concrete stairs. This will eventually cause the stairs to slide further into the lake (see photo).
- There is no ADA access to the lake.



The City proposes to remove the existing floating dock, connecting pier, boat ramp, and associated gangways, and replace them with ADA-accessible, environmentally updated facilities. For safety, swimmer-accessibility, and fisher accessibility, the proposed fishing pier will be reconfigured to relocate the finger in deeper water at the outer edge of the swim area. The pier will be elevated and will include aluminum guardrails, including sections with lower rails for ADA accessibility.

In the swimming access area, three (3) aluminum access swim stairs with handrails will be added that descend from the concrete stairs into the water. Additional railings and fencing will be installed to focus swimmers to the access stairs. Additionally, an elevated aluminum ramp with handrails will be added at the east end of the concrete stairs that extends approximately 109 feet into the water to allow for ADA access to the swim area.

The boat ramp will be a combination of pre-cast (below Ordinary High Water [OHW]) and cast-in-place (CIP; above OHW) concrete in the same size and configuration as the existing ramp. Scour protection will be added to the perimeter of the boat ramp to prevent erosion. The concrete abutment and gangway to the boarding floats will be replaced with aluminum floats. The existing boarding floats will not be replaced, but will remain in nearly the same configuration as existing.

Finally, the proposed improvements will result in improvements to the aquatic habitat provided by Angle Lake. Nineteen (19) creosote-treated timber pile will be removed from the lake, solid overwater structure, including floats, will be converted to grated elevated structure, and a solid overwater pier that abuts a wetland will be removed and relocated to the uplands to remove that impact.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The project will occur at Angle Lake Park and the associated aquatic portions on the west side of Angle Lake. The property address is 19408 International Blvd., SeaTac, WA 98188 (See JARPA Sheet 1).

Section, Township, Range: NE, S04, T22N, 04E

Parcel numbers: 0422049002

Legal Descriptions: POR GOVT LOT 1 IN NE QTR STR 04-22-04 LY ELY OF STATE RD NO 1 (PACIFIC HWY S -- SR 99) & SLY OF FOLG DESC LN: BEG AT PT ON ELY LN SD GOVT LOT WCH IS S 01-17-00 E 793.2 FT FR NE COR THOF TH S 89-55-13 W ALG SLY LN OF N HALF SD GOVT LOT 823.5 FT M/L TO ELY LN SD STATE RD NO 1 LESS S 255 FT THOF TGW 2ND CLASS SHORE LANDS ADJ & TGW POR N HALF GOVT LOT 1 STR 04-22-04 DAF: BEG AT NE COR SD GOVT LOT TH S 01-17-00 E ALG E LN THOF 793.2 FT TO TPOB TH S 89-55-13 W 409.6 FT TH N 01-17-00 W 75 FT TH N 89-55-13 E 409.6 FT TH S 01-17-00 E 75 FT TO TPOB & TGW N 85 FT OF S 255 FT OF GOVT LOT 1 STR 04-22-04 LY ELY OF LN BEG AT PT 507 FT E (MEAS ALG N LN SD 85 FOOT STRIP) OF C/L ST HWY NO 1 TH AT R/A TO N LN OF SD 85 FOOT STRIP TO PT ON S LN THOF & TERMINUS SD LN TGW 2ND CLASS SHORELANDS ADJ.

B. Environmental Elements [\[HELP\]](#)

1. Earth [\[help\]](#)

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other gently sloped shoreline

The project will require work on the beach area and in the water adjacent to Angle Lake Park.

b. What is the steepest slope on the site (approximate percent slope)?

15%

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The upland portions consist primarily of gravelly sandy loam. In addition, in a survey completed by Mott MacDonald in 2022, the soils surveyed on site consisted primarily of a medium, dense, silty sand, in addition to poorly graded sand and gravel.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

Fill

Boat Ramp

The existing subgrade bedding layer beneath the boat ramp and boat ramp elements (approximately 100 CY total) will be excavated and replaced with 80 CY of 12-inch subgrade and crushed aggregate base material, which will be installed on top of geotextile fabric, in addition to 8-inch thick concrete panels spanning approximately 800 SF. The fabric will cover 49 SF above OHW, and 255 SF below OHW in Angle Lake. This bedding layer will support the new boat ramp components.

The centerline of the proposed boat ramp will be similar to the existing alignment. The replacement boat ramp will match the existing slope (15%). The elevation at the end of the proposed boat ramp will match the existing elevation (EL +354 feet). The total width of the ramp will be 31 feet, which will include 20 feet in the center for the new boat ramp, one 8-foot wide float on the north side and 3-feet of scour protection on south side. Before installation of a 12-inch thick subgrade with crushed aggregate base material, new geotextile fabric will be installed to cover the area of the proposed boat ramp. Steel rails will be installed at the lower area for the installation and support of the proposed precast concrete panels in the lake level zone.

8-inch thick precast concrete panels will be installed on-grade at the lower slope areas and an 8-inch thick cast-in-place (CIP) concrete slab will be installed within the upper slope areas. Delineation between the CIP and precast areas will be determined during engineering design and be based on water elevations. The precast concrete segments will utilize a steel frame rail system to aid in installation of below-water portions of the ramp without any need for dewatering. An articulated concrete block mat will be used on the north side of the concrete ramp beneath the boarding floats. BMPs regarding casting concrete near water will be implemented to protect the aquatic environment. If water levels are high during construction, the concrete slab will be isolated from the water using sandbags, super sacks, or similar methods and then be dewatered. No CIP concrete is anticipated below OHW. A debris boom will be installed around the wetted perimeter of the boat ramp work area in order to contain any floating debris produced during the demolition and construction work. A silt curtain will be utilized, if necessary, to meet water quality requirements based on the results of water quality monitoring work conducted throughout the duration of construction.

A reinforced concrete abutment will be cast-in-place above the water zone to minimize exposure of concrete to water. The new abutment will be tied into the new boat ramp via epoxied steel dowels installed into drilled holes of the boat ramp where the new abutment will be connected.

Once the new boat ramp is installed, 7 CY of riprap will be placed below OHW, covering approximately 372 SF, as scour protection surrounding the boat ramp. Class 700 is the minimum size riprap recommended at the ramp toe, while 4-inch to 8-inch rock will likely be used along the sides of the boat ramp. Riprap is typically placed on a layer of geotextile fabric to minimize erosion and to keep fines from being washed out through the openings of the riprap.

Beach Replenishment

Clean sand fill material is proposed for the beach replenishment portion of the project. The fill will improve access for visitors, improve public safety, and restore this area after scouring from wave action. 40 CY will be placed above OHW covering approximately 528 SF, and 275 CY will be placed below OHW covering approximately 3,691 SF. The sand gradation will be sized to be barefoot friendly and slow down future scour due to dynamic water conditions at the concrete stair interface. This sand fill will also be placed where Himalayan blackberry is removed in the northeastern most portion of the beach area.

All materials will be transported on site in dump trucks, where materials will be deposited either in temporary stockpiles in the uplands, or directly at the appropriate locations. Sand will be spread out along the beach using a backhoe or a long-reach hydraulic excavator staged on timber crane matting in the upland area above the beach. The bedding layer and the riprap associated with the boat launch will also be placed via an excavator or backhoe. If necessary, the excavators may also be placed on a flexifloat or a similar barge system for harder to reach areas (e.g., placing riprap at the toe of the boat ramp).

Excavation

All materials and structures (i.e., existing connecting concrete pier, concrete platform [connecting to boarding floats], and boat ramp) to be excavated, demolished, and removed will be disposed of at an approved, upland, off-site facility by truck. Full-depth extraction of existing materials for the boat ramp (approximately 100 CY of material) will include: concrete (544 SF above OHW, and 776 SF below OHW), subgrade materials for the bedding layer, and the existing substructure for the precast concrete panels will be removed during the demolition. Material will be removed via a crane barge or a flexifloat with a roll-on crane, and long-reach hydraulic excavator on shore. For the majority of materials, the excavator will create temporary stockpiles in the uplands prior to loading on trucks for disposal off-site.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No, this project will not result in any erosion. The proposed sand fill will repair damage from previous erosion and scouring events from wave action. In addition, the installation of new boat ramp, bedding layer, and surrounding riprap will protect against future erosion and scouring activity around the boat ramp.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

Proposed activities will reduce the site's impervious surfaces by replacing the solid-decked concrete dock and associated structures grating facilities. The entire deck surface of all gangways and walkways will be covered with an ADA-compliant fiber-reinforced polymer grating with a minimum 60% open area. Approximately 50% of the entire deck will be functional grating.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

This project is being conducted to repair and prevent future damage from erosion and scouring events. The addition of clean sand fill to the beach will restore this area after scouring/erosion from wave action, riprap will be installed around the boat ramp to protect against water generated forces, and a replaced concrete abutment will add additional support to nearby structures. Fill material size has been chosen to be swimmer-friendly while also less prone to erosion.

2. Air [\[help\]](#)

a. What types of emissions to the air would result from the proposal during construction operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Equipment required on-site for construction will include heavy equipment for demolition and installation. Use of this construction equipment will result in exhaust emissions. These emissions will be temporary in nature, and will only occur during active project construction. With Angle Lake's close proximity to major highways and the SeaTac International Airport, the emissions from this project will not result in an increase in air emissions relative to the baseline condition in SeaTac, WA.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

None proposed. All construction equipment will have factory-installed emissions controls in good condition.

3. Water [\[help\]](#)

a. Surface Water: [\[help\]](#)

- 1) Is there any surface water body on or in the immediate vicinity of the site including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes,**

describe type and provide names. If appropriate, state what stream or river it flows into.

The proposed project will take place at Angle Lake Park along the shoreline of Angle Lake. The property contains two small Category III lake-fringe wetlands along the shore: one on the northernmost edge of the lakeshore extending onto the neighboring property, and one between the two pier-ramp-float systems. The northern wetland is dominated by mature willow and soft rush, with one black cottonwood providing a canopy to much of the wetland. The wetland between the two pier-ramp-float systems is dominated by willow, soft rush, and reed canary grass. The woody vegetation in this wetland has been trimmed to about 4 feet to increase visibility. Both wetlands have extensive amounts of litter.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

All project elements will occur above and below Ordinary High Water (OHW), and will require work over, in, and adjacent to Angle Lake. The proposed project includes the demolition and replacement of the pier, piles, floats, and boat ramp associated with the waterfront of Angle Lake Park. This project proposes to install a new fishing pier system, boat launch, floats, connecting pier, access swim stairs, and an ADA-accessible swim ramp. In addition, additional riprap fill is proposed to protect the boat ramp from scouring water generated forces, and sand fill on the beach area to increase accessibility for visitors, increase public safety, and restore this area after scouring/erosion events from wave action. All concrete structures proposed (abutment and boat ramp) will either be cast in place above OHW, or precast for installation below OHW. BMPs for water quality, pile removal and disposal, and concrete work near the aquatic environment will be followed. Please see JARPA figures for more detail.

Equipment which could be used during demolition and installation of the project components includes a crane barge or flexifloat with a roll-on crane, vibratory hammer (for pile), long-reach hydraulic excavators on shore, a small backhoe, and hand tools. Additional equipment, including debris booms, filter berms, silt fences, and turbidity curtains, will be utilized throughout the project to protect the aquatic environment and surrounding areas. All demolished structures and materials will be loaded onto floats and trucks for disposal off-site at an approved upland facility.

The following describes the work proposed:

Demolition and Excavation

Selective demolition of the existing elements will occur above and below OHW and primarily be conducted by crane barge and excavator on shore. The timber piles will be removed by crane and placed on the deck of the barge temporarily until they are placed on a truck bed for offsite disposal. The concrete floats will be floated to the boat ramp and lifted onto a truck bed. The concrete piers will be removed by an excavator on shore and placed on a truck bed. Debris booms, and other best management practices (BMPs) will be used as required to protect water quality in accordance with applicable regulatory criteria and thresholds. All items listed above will be placed on a truck bed, transported offsite, and disposed of at an approved upland facility.

Piles

Existing creosote-treated timber and galvanized steel piles at the landward edge of the facility will be extracted by pulling with a crane or potentially a vibratory extractor from shore. Due to water levels at the project site, a floating barge will be used to extract the piles at the waterward edge of the float system. A debris boom will be installed around the perimeter of the work area in order to contain any floating debris produced during the demolition and new construction work. A silt curtain will be utilized, if necessary, to meet water quality

requirements based on the results of water quality monitoring work conducted throughout the duration of construction.

Full-length extraction of existing creosote timber piling will be attempted during demolition. If, during extraction, a pile breaks and can no longer be extracted by crane, the pile stub will be cut approximately one to two feet below the mudline. Demolished creosote treated timber piling will be disposed of at an approved offsite facility. Washington Department of Natural Resources BMPs for Pile Removal and Disposal (2017) will be followed during pile extraction.

Floating Dock

The existing concrete floating dock used for water access and fishing will be removed and demolished offsite. The concrete floating dock consists of reinforced concrete with a foam interior and timber walers. The dock will be disassembled into individual float sections and then will be floated over to the boat ramp and removed for disposal at an approved offsite upland facility.

Connecting Pier and Boat Ramp

Demolition and excavation will consist of full depth removal of the existing connecting concrete pier, the concrete platform connecting to the boarding floats, and the existing boat ramp, which consists of asphalt and precast concrete panel elements. Full-depth extraction of existing concrete, subgrade materials and the existing substructure for the precast concrete panels will be removed during the demolition. Demolition will be performed from upland areas using a long-reach hydraulic excavator. The excavator will place the material into a temporary stockpile in the uplands prior to loading into trucks for offsite disposal. Filter berms and a silt fence will be used to limit runoff from offloaded material. While excavating, a turbidity curtain may be placed around the perimeter of the work area if needed for compliance with water quality mixing zone requirements. BMPs and water quality protection measures will be implemented for conformance with the permit requirements with conservation measures outlined below:

- Operations will be conducted in such a manner as to limit disturbance to the minimum required to complete the work.
- Turbidity and other water quality parameters will be monitored to ensure construction activities are in conformance with Washington State Surface Water Quality Standards, or other conditions as specified in the WDOE Section 401 Water Quality Certification (WQC). The Contractor will observe turbidity during structural excavation operations in order to ensure compliance with WQC requirements. Appropriate BMPs will be employed to minimize sediment loss and turbidity generation during structural excavation, re-handling, dewatering, and material processing.

The Contractor will be responsible for the preparation of a Spill, Prevention, Control, and Countermeasure (SPCC) Plan to be used for the duration of the project. The SPCC Plan will be submitted to and approved by the project engineer prior to the commencement of construction activities. A copy of the SPCC Plan, with any updates, will be maintained at the work site by the Contractor. The SPCC Plan will provide advanced planning for potential spill sources and hazardous materials (gasoline, oils, chemicals, etc.) that the Contractor may encounter or utilizes as part of conducting the work. The SPCC plan will outline roles and responsibilities, notifications, inspection, and response protocols.

Excavation

Minor structural excavation, and possibly grading work, would be performed prior to placing foundation materials for the new concrete abutment, new concrete path and ADA concrete ramp. All structural excavation and grading work for the new concrete abutment, new concrete path and ADA concrete ramp will take place above OHW. All structural excavation work will be conducted utilizing hand tools and possibly a small

backhoe. The excavator will place the material into a temporary stockpile in the uplands prior to loading onto a truck for offsite disposal or possibly placed in an approved upland location. Filter berms and a silt fence would be used to limit runoff from offloaded material. While excavating, the Contractor will be responsible to submit and follow an accepted Temporary Erosion and Sediment Control (TESC) plan based on best management practices (BMPs). BMPs and water quality protection measures that will be implemented for conformance with the permit requirements and conservation measures are outlined below:

- Operations will be conducted in such a manner as to limit disturbance to the minimum required to complete the work.
- Turbidity and other water quality parameters will be monitored to ensure construction activities are in conformance with Washington State Surface Water Quality Standards, or other conditions as specified in the WDOE Section 401 Water Quality Certification (WQC). The Contractor will observe turbidity during structural excavation operations in order to ensure compliance with WQC requirements. Appropriate BMPs will be employed to minimize sediment loss and turbidity generation during structural excavation, re-handling, dewatering, and material processing.

Steel Fencing

The chain link fencing extending into the lake along the north parcel boundary will be removed.

Invasive Vegetation Removal

A large patch of Himalayan blackberry will be removed from the beach area at the north end of the project area. The cottonwood tree adjacent to the blackberry will be retained.

Replacement and New Structures

Installation of the new waterfront park facility elements will commence following the demolition and excavation of the existing facility. The new facility is larger than the existing as the ADA swim ramp, stairs, and kayak float have been added to improve accessibility and public safety.

Piles

New 12.75-inch galvanized steel pipe piles will be installed to provide lateral and axial support for the pier, walkways, platforms, swim ramp and boarding floats. Pile installation will be performed by vibratory hammer. All float piles will have fiberglass bird caps installed.

Driving of the pile will require the use of a vibratory hammer. The estimated time to install each pile with a vibratory hammer will be typically 45 minutes based on the dense sand observed by the geotechnical engineer. Proof loading will be required for piles supporting the pier and walkways. It is assumed that an impact hammer will be used to proof load piles that will vertically support structures and must achieve a minimum of 250 blows/pile for the last 5 ft of embedment.

Piers

New aluminum walkways with aluminum guardrails will be installed on the top of the galvanized steel substructures. The walkways will be ADA accessible. The entire deck surface of all gangways and walkways will be covered with an ADA-compliant fiber-reinforced polymer grating with a minimum 60% open area. Approximately 50% of the entire deck will be functional grating.

Concrete Path

A new concrete path will be installed in the uplands to replace the existing overwater connecting pier that provides access between the swim area and the boat ramp. The new concrete path will include some

excavation and compacted subgrade to support the path. The relocation of the connecting path to the uplands is intended to offset impacts of the new over- and in-water structures and the placement of beach replenishment material. The existing connecting pier runs over/adjacent to Wetland B. Relocating the pier to the uplands will avail aquatic area for the wetland vegetation.

Boat Ramp

The centerline of the proposed boat ramp will be similar to the existing alignment. The replacement boat ramp will match the existing slope (15%). The elevation at the end of the proposed boat ramp will match the existing elevation (EL +354 feet). The total width of the ramp will be 31 feet, which will include 20 feet in the center for the new boat ramp, one 8-foot wide float on the north side and 3-feet of scour protection on south side. Before installation of a 12-inch thick subgrade with crushed aggregate base material, new geotextile fabric will be installed to cover the area of the proposed boat ramp. Steel rails will be installed at the lower area for the installation and support of the proposed precast concrete panels in the lake level zone.

8-inch thick precast concrete panels will be installed on-grade at the lower slope areas and an 8-inch thick cast-in-place (CIP) concrete slab will be installed within the upper slope areas. Delineation between the CIP and precast areas will be determined during engineering design and be based on water elevations. The precast concrete segments will utilize a steel frame rail system to aid in installation of below-water portions of the ramp without any need for dewatering. An articulated concrete block mat will be used on the north side of the concrete ramp beneath the boarding floats. BMPs regarding casting concrete near water will be implemented to protect the aquatic environment. If water levels are high during construction, the concrete slab will be isolated from the water using sandbags, super sacks, or similar methods and then be dewatered. No CIP concrete is anticipated below OHW. A debris boom will be installed around the wetted perimeter of the boat ramp work area in order to contain any floating debris produced during the demolition and construction work. A silt curtain will be utilized, if necessary, to meet water quality requirements based on the results of water quality monitoring work conducted throughout the duration of construction.

A reinforced concrete abutment will be cast-in-place above the water zone to minimize exposure of concrete to water. The new abutment will be tied into the new boat ramp via epoxied steel dowels installed into drilled holes of the boat ramp where the new abutment will be connected.

Scour protection utilizing 3 feet of riprap will be constructed along the south side of the boat ramp to protect from external water-generated forces (waves, boat wake and prop wash) from eroding and undermining the structure. At the lower end of the ramp, a 5-foot wide riprap barrier will be installed across the whole width of the ramp to resist scour from prop wash. Riprap is typically placed on a layer of geotextile fabric to minimize erosion and to keep fines from being washed out through the openings of the riprap. Class 700 is the minimum size riprap recommended at the ramp toe, while 4-inch to 8-inch rock will likely be used along the sides of the boat ramp.

Boarding Float Additions

Two (2) new 8-foot wide by 19-foot long boarding floats will be installed along the north side of the concrete boat ramp to replace the gangways and a portion of the concrete abutment. The landward float will ground out on the boat ramp on the articulated concrete mats. The boarding floats will be comprised of aluminum tube frames and thick-walled, foam-filled High Density Polyethylene (EPS HDPE) flotation tubs. The top deck surface of the floats will be fiberglass grated decking meeting ADA requirements and 60-percent net open area requirements. All floats will have approximately 20% to 25% functional grating.

ADA Swim Ramp

The new ADA swim ramp will consist of a concrete ramp portion connected to the existing concrete path and then connected to an elevated aluminum ramp walkway into the water. The new elevated aluminum ADA

ramp with aluminum guardrails will be installed on the top of the galvanized steel substructures to create ADA accessible in water swim access. The entire deck surface of all elevated walkways will be covered with an ADA-compliant fiber-reinforced polymer grating with a minimum 60% open area. Approximately 50% of the entire deck be functional grating. Some localized excavation maybe needed to install piles and install connections for the elevated structure.

Access Swim Stairs

The new access stairs will be installed in three locations to provide access to the swim area from the existing concrete stairs. There has been erosion at the base of the existing concrete steps which has decreased access and safety getting in and out of the water. The new stairs will be made of prefabricated aluminum framing attached to the existing concrete stairs. Additional railings and fencing will be installed to focus swimmers to the stairs.

Kayak Access Float

A 12-foot wide by 18-foot long kayak access float will be installed along the north side of the existing floats at the boat ramp to provide ADA kayak launch access. The float will be connected and supported by the existing piling. The float will be made of polyethylene flotation tubs.

Beach Replenishment

The sand area in front of the existing concrete stairs used by swimmers to access the water has scoured over time due to wave action. As part of this project, sand material will be placed in this location to improve public safety and reduce the height to the first concrete stair. The sand gradation will be sized to be barefoot friendly and slow down future scour due to dynamic water conditions at the concrete stair interface. Beach replenishment will also be placed where the blackberries are removed to soften the beach and support the adjacent swim access and kayak launch.

Vegetation Restoration Area

At the location of the demolished connecting pier, the elevated structure over the vegetated shoreline will be removed and will allow for expansion of the current shoreline vegetation area. This was provided to the project as mitigation to offset the proposed new ADA swim ramp and the placement of beach replenishment material.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

Fill

Boat Ramp

The existing subgrade bedding layer beneath the boat ramp and boat ramp elements (approximately 100 CY total) will be excavated and replaced with 80 CY of 12-inch subgrade and crushed aggregate base material, which will be installed on top of geotextile fabric, in addition to 8-inch thick concrete panels spanning approximately 800 SF. The fabric will cover 49 SF above OHW, and 255 SF below OHW in Angle Lake. This bedding layer will support the new boat ramp components.

The centerline of the proposed boat ramp will be similar to the existing alignment. The replacement boat ramp will match the existing slope (15%). The elevation at the end of the proposed boat ramp will match the existing elevation (EL +354 feet). The total width of the ramp will be 31 feet, which will include 20 feet in the center

for the new boat ramp, one 8-foot wide float on the north side and 3-feet of scour protection on south side. Before installation of a 12-inch thick subgrade with crushed aggregate base material, new geotextile fabric will be installed to cover the area of the proposed boat ramp. Steel rails will be installed at the lower area for the installation and support of the proposed precast concrete panels in the lake level zone.

8-inch thick precast concrete panels will be installed on-grade at the lower slope areas and an 8-inch thick cast-in-place (CIP) concrete slab will be installed within the upper slope areas. Delineation between the CIP and precast areas will be determined during engineering design and be based on water elevations. The precast concrete segments will utilize a steel frame rail system to aid in installation of below-water portions of the ramp without any need for dewatering. An articulated concrete block mat will be used on the north side of the concrete ramp beneath the boarding floats. BMPs regarding casting concrete near water will be implemented to protect the aquatic environment. If water levels are high during construction, the concrete slab will be isolated from the water using sandbags, super sacks, or similar methods and then be dewatered. No CIP concrete is anticipated below OHW. A debris boom will be installed around the wetted perimeter of the boat ramp work area in order to contain any floating debris produced during the demolition and construction work. A silt curtain will be utilized, if necessary, to meet water quality requirements based on the results of water quality monitoring work conducted throughout the duration of construction.

A reinforced concrete abutment will be cast-in-place above the water zone to minimize exposure of concrete to water. The new abutment will be tied into the new boat ramp via epoxied steel dowels installed into drilled holes of the boat ramp where the new abutment will be connected.

Once the new boat ramp is installed, 7 CY of riprap will be placed below OHW, covering approximately 372 SF, as scour protection surrounding the boat ramp. Class 700 is the minimum size riprap recommended at the ramp toe, while 4-inch to 8-inch rock will likely be used along the sides of the boat ramp. Riprap is typically placed on a layer of geotextile fabric to minimize erosion and to keep fines from being washed out through the openings of the riprap.

Beach Replenishment

Clean sand fill material is proposed for the beach replenishment portion of the project. The fill will improve access for visitors, improve public safety, and restore this area after scouring from wave action. 40 CY will be placed above OHW covering approximately 528 SF, and 275 CY will be placed below OHW covering approximately 3,691 SF. The sand gradation will be sized to be barefoot friendly and slow down future scour due to dynamic water conditions at the concrete stair interface. This sand fill will also be placed where Himalayan blackberry is removed in the northeastern most portion of the beach area.

All materials will be transported on site in dump trucks, where materials will be deposited either in temporary stockpiles in the uplands, or directly at the appropriate locations. Sand will be spread out along the beach using a backhoe or a long-reach hydraulic excavator staged on timber crane matting in the upland area above the beach. The bedding layer and the riprap associated with the boat launch will also be placed via an excavator or backhoe. If necessary, the excavators may also be placed on a flexifloat or a similar barge system for harder to reach areas (e.g., placing riprap at the toe of the boat ramp).

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No, there will be no surface water withdrawals or diversions. If water levels are high during construction, the cast in place concrete slab will be isolated from the water using sandbags, super sacks, or similar methods and then be dewatered. The proposed project will not result in any permanent withdrawals or diversions of surface water.

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No, the project will be conducted in and adjacent to Angle Lake, which does not occur within a 100-year floodplain.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

The proposal does not involve any discharge of waste materials to surface waters. All waste and materials from demolished structures will be collected and removed for disposal at an approved off-site facility.

b. Ground Water: [\[help\]](#)

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No groundwater will be withdrawn and no water will be discharged to groundwater.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals. . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No waste material will be discharged.

c. Water runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The proposed project will not affect runoff, including stormwater. Though some structures will be reconfigured, the amount of impervious surfaces will be reduced, since the existing concrete floating dock and pier structures will be replaced with a pier that will have FRP grated decking with 60% minimum open area. These structures will reduce sources of runoff, meet ADA accessibility requirements, improve public safety, and update these structures to meet the current use demands of the park. To protect against erosive/scouring action from wave action and boat activity, riprap will also be installed bordering portions of the boat ramp, and sand fill is proposed to restore the beach, and improve public safety and accessibility.

2) Could waste materials enter ground or surface waters? If so, generally describe.

BMPs will be followed during construction to ensure that no waste materials enter ground or surface waters. The finished project will not generate any waste materials.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

Drainage patterns in the vicinity of the site will be improved with structures that will have FRP grated decking with 60% minimum open area, instead of the concrete surfaces of the existing dock/pier structures. No additional affects to the drainage patterns of the site will occur as a result of this project.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

This project will reduce runoff water impacts with replacement structures that have grated decking with a minimum of 60% open area, instead of concrete. This project will not result in any additional impacts on surface, ground, or runoff water or drainage patterns.

4. Plants [\[help\]](#)

a. Check the types of vegetation found on the site:

- ☒ deciduous tree: alder, **maple**, aspen, **other**
- ☒ evergreen tree: **fir**, **cedar**, pine, **other**
- ☒ shrubs
- ☒ grass
- ☐ pasture
- ☐ crop or grain
- ☐ Orchards, vineyards or other permanent crops.
- ☐ wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other
- ☒ water plants: **water lily**, eelgrass, milfoil, other
- ☒ other types of vegetation

The current property is a park with grass lawns, paved and gravel walkways, and a freshwater shoreline with an unvegetated, sandy beach providing access to Angle Lake. In addition to the manicured grass lawns, vegetation on site primarily includes conifers (e.g., western red cedar, Douglas fir, western hemlock), and deciduous trees (e.g., maples). Assorted grasses and shrubs also occur on site. A patch of Himalayan blackberry (invasive species in WA State), is present on the northeastern most corner of the beach, which the current project proposes to remove. Plants associated with the wetlands on site also include: black cottonwood, willow, yellow flag iris, soft rush, reed canarygrass, and Douglas spirea.

b. What kind and amount of vegetation will be removed or altered?

A patch of approximately 835 square feet of Himalayan blackberry is present on the northeastern most corner of the beach. This project proposes to remove this patch and add sand to this area to support the adjacent swim access and kayak launch of the park. No additional vegetation will be removed or altered.

c. List threatened and endangered species known to be on or near the site.

There are no threatened or endangered plant species on or near the site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

A large majority of the activities related to this project will occur on the beach and in the water. The Himalayan blackberry existing in the northeastern most corner of the beach will be removed and replaced with sand to preserve the current existing vegetation on site, and improve swim access and kayak launching in this area. All existing native plants and vegetation on site will not be affected by the proposed project. No additional landscaping or measures are proposed or required.

e. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry is present on site.

5. Animals [\[help\]](#)

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: **hawk, heron, eagle, songbirds**, other:

mammals: deer, bear, elk, **beaver**, other:

fish: **bass, salmon, trout**, herring, shellfish, other _____

Per the PHS online mapping tool (accessed April 25, 2023), no Priority Species are mapped within the project area; however, piscivorous birds, migratory birds, hawks, herons, eagles, and songbirds may be found at or near the site as they forage/hunt or migrate along the Pacific Flyway. Angle Lake is also regularly stocked with trout and bass, and small mammals such as beavers and other small rodents, may use the site for foraging.

b. List any threatened and endangered species known to be on or near the site.

No threatened or endangered species are known to be on or near the site.

c. Is the site part of a migration route? If so, explain.

The site is a public, city park, surrounded by developed residential properties and commercial/business offices. Washington is within the Pacific Flyway for migratory birds, and the trees on this site could be potentially used by these migratory species. No work is anticipated to impact migratory species, since all work is temporary in nature and will be primarily conducted in and overwater.

d. Proposed measures to preserve or enhance wildlife, if any:

The new structures proposed for installation will be built with more environmentally friendly materials. All existing creosote-treated timber pile will be replaced with galvanized steel pile with fiberglass bird caps. In replacement of the concrete surfaces, the deck surfaces of all gangways and walkways will be covered with an ADA-compliant fiber-reinforced polymer grating with a minimum 60% open area. Approximately 50% of the entire deck will be functional grating.

e. List any invasive animal species known to be on or near the site.

There are no known invasive animal species on or near the site.

6. Energy and Natural Resources [\[help\]](#)

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The energy needs of the project area will not change.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

The project will restore the beach and provide new and improved structures including a pier system, boat launch and boarding floats, and ADA-accessible swim ramp. This project will not impact the potential use of solar energy by adjacent properties.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

There are no energy conservation features included in the plans of this proposal.

7. Environmental Health [\[help\]](#)

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

There are no environmental health hazards and risks of fire, explosion, or spills that will result from this project.

1) Describe any known or possible contamination at the site from present or past uses.

The water of Angle Lake is on the Washington Department of Ecology's 303(d) List for Fecal coliform bacteria. The existing pier structure utilizes creosote-treated timber pile, which will be removed and replaced with steel pile as part of this project.

No additional known or possible contamination is present at the site.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

There are no hazardous chemicals/conditions that might affect this project.

3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Other than those required for operation of construction equipment, no toxic or hazardous chemicals will be stored, used, or produced during the project's development or construction. BMPs will be closely followed to minimize risk of spill.

4) Describe special emergency services that might be required.

No special emergency services will be required. Spill containment kits are maintained onsite as part of standard operating procedures, and the risk of injury to workers is no greater than during regular operations.

5) Proposed measures to reduce or control environmental health hazards, if any:

There are no anticipated environmental health hazards associated with doing this project. The Department of Natural Resources' (DNR) BMPs for removing creosote pile will be followed.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Angle Lake and those surrounding experience high levels of ambient noise with associated traffic on nearby highways, and the SeaTac International airport. This noise will not affect the project.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Short-term noise associated with the project includes that of construction equipment maneuvering in, out, and around the project area for the duration of construction operations. A vibratory hammer (or impact hammer depending on soil conditions) will also be used to remove and install pile, which will create short term noise during construction. In addition, the noise levels of this equipment are not considerably different than those of vehicles on nearby highways and aircraft traffic from the airport. There will be no long-term changes to noise types and levels at the facility.

3) Proposed measures to reduce or control noise impacts, if any:

Because there are no anticipated increases in noise due to operations, there are no proposed measures to reduce or control noise impacts. For pile removal/installation, a marine mammal monitoring plan is not proposed since no Endangered Species Act (ESA) listed species are known to occur in Angle Lake.

8. Land and Shoreline Use [\[help\]](#)

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The site is currently used recreationally as a public park for the City of SeaTac, which also includes swimming/beach access to the lake, and a boat launch and fishing dock. The adjacent properties are primarily commercial/business office buildings and residential single-family homes. Angle Lake Nature Trail also extends along the western shore of the lake, with the trail originating near the Angle Lake Park boat launch and continuing south. The proposal will not affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No, the project site has not been used as working farmlands or working forest lands.

1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No, the site is surrounded by developed residential areas, public recreational parks, and commercial/business buildings, and will not affect or be affected by working farm or forest land.

c. Describe any structures on the site.

The current property is a developed 8.93 acre plot with a single story 4,144 sq. ft. building used for restrooms, a wood framed, 6,400 sq. ft. picnic shelter, three other picnic shelters, a lifeguard building, a performance stage, a spray park, and a playground. All appear to be in good condition. The park also has a boat launch and associated pier/ramp/float system and a fishing pier/ramp/float system. With the exception of the boat launch boarding float, all of these structures are aging with signs of wear and tear, and are in need of replacement and/or repair.

Belowground structures include utilities (water, sewer, electric, etc.).

d. Will any structures be demolished? If so, what?

The following waterfront structures are proposed to be demolished:

Qty.	Work Item	Above OHW		Below OHW		Total Area (SF)
		Volume (CY)	Area (SF)	Volume (CY)	Area (SF)	
4	12"-16" Dia. Creosote Timber Pile (Docks)	-	-	-	4	4
3	12" Galvanized Steel Piles	-	-	-	3	3

15	12"-16" Dia. Creosote Timber Dolphin Pile (Connecting Pier)	-	-	-	15	15
1	Concrete Floating Dock	-	-	-	2165	2165
1	Concrete Connecting Pier	-	906	-	413	1319
1	Concrete and Asphalt Boat Ramp and Platform	-	544	-	776	1320
2	Aluminum Gangways	-	-	-	175	175
1	Remove Blackberries	-	574	-	261	835

e. What is the current zoning classification of the site?

Park (P), and Angle Lake

f. What is the current comprehensive plan designation of the site?

Urban Conservancy

g. If applicable, what is the current shoreline master program designation of the site?

Urban Conservancy

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

According to King County's public online iMap tool (accessed April 25, 2023), no critical areas were mapped within or near Angle Lake. However, Grette Associates completed a site visit on March 3, 2023, and identified four wetlands. A Critical Areas Report is currently in progress which addresses this in detail (Grette Associates 2023). In summary, there are two small lake fringe wetlands on the subject parcel: one approximately 1,100 sq. ft. wetland with emergent, scrub-shrub, and forested elements along the northern edge of the parcel (Wetland A); and an approximately 1,200 sq. ft. emergent/scrub-shrub wetland between the existing perpendicular pier/ramp/float systems (Wetland B). There are two additional lake fringe wetlands off-site within 300 feet of the project area. One large (approximately 10,400 sq. ft.) aquatic bed/emergent/scrub-shrub/forested wetland is immediately south of the project area (Wetland C). Aquatic plants appear to grow around a dock associated with tax parcel 7844200420. An additional smaller (approximately 2,000 sq. ft.) aquatic bed/emergent feature is about 85 feet east of the project area (Wetland D). All wetlands were rated as Category III using Ecology's Wetland Rating System for Western Washington – Revised (2023). Wetlands A and C had a habitat score of 6, and Wetlands B and D had a habitat score of 5. According to SeaTac Municipal Code (SMC) 15.700.285, Category III wetlands with a habitat score of 5 have a base buffer of 105 feet, and those with a habitat score of 6 have a base buffer of 165 feet.

i. Approximately how many people would reside or work in the completed project?

None, the project is to be conducted at Angle Lake Park and the associated aquatic areas in Angle Lake.

j. Approximately how many people would the completed project displace?

None, the project will be conducted at a public park used primarily for recreational opportunities.

k. Proposed measures to avoid or reduce displacement impacts, if any:

Nobody will be displaced by the project.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Angle Lake falls under the *Angle Lake District Station Area Plan* developed in July 2015, and SeaTac's *Parks, Recreation, and Open Space (PROS) Plan* developed in November 2020. All proposed work is compatible with the existing land uses and plans for Angle Lake Park.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

The project will not have impacts on agricultural or forest lands.

9. Housing [\[help\]](#)

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

N/A

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

N/A

c. Proposed measures to reduce or control housing impacts, if any:

N/A

10. Aesthetics [\[help\]](#)

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The tallest height of any proposed structure is the top of the boat launch pile, which will be at +359 feet NAVD88. The lowest observed water level for the lake is 346.6 feet and the OHW for the lake is 350.5. The height of the pile above the water will be 12.4 feet at lowest observed water and 8.5 feet at OHW.

b. What views in the immediate vicinity would be altered or obstructed?

N/A

c. Proposed measures to reduce or control aesthetic impacts, if any:

None proposed.

11. Light and Glare [\[help\]](#)

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

All work will primarily occur during the day. No additional sources of light or glare are anticipated to be produced by this project.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

N/A

c. What existing off-site sources of light or glare may affect your proposal?

No off-site sources of light will affect the proposal.

d. Proposed measures to reduce or control light and glare impacts, if any:

There are no anticipated impacts of light or glare, so there are no proposed measures to reduce or control light and glare.

12. Recreation [\[help\]](#)

a. What designated and informal recreational opportunities are in the immediate vicinity?

Angle Lake Park provides recreational opportunities including: a playground, spray park, performance stage, picnic shelters, access to the Angle Lake Nature Trail, in addition to access for swimming, boating, and fishing within Angle Lake. The proposed project will improve the safety and accessibility for visitors, and replace aging structures showing signs of wear and tear to meet the current demands of Angle Lake Park.

b. Would the proposed project displace any existing recreational uses? If so, describe.

Any displacement of recreational uses will be temporary, and only during construction activities for the project. The results of this project will increase accessibility with structures that meet ADA requirements, improve overall public safety, and meet the current use demands of the waterfront structures associated with Angle Lake Park.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

The project will improve recreational opportunities, by repairing and replacing the aging waterfront structures and beach area on site to help meet the current use demands, increase accessibility, and improve public safety,

especially for swimmers, boaters, and fishers using Angle Lake. No additional impacts on recreation or recreation opportunities are anticipated.

13. Historic and cultural preservation [\[help\]](#)

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.**

There are no buildings, structures or sites listed or proposed for listing in national, state, or local preservation registers known to be on or near the site.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.**

In 1989, a canoe was discovered buried underwater in Angle Lake. It is important to note that this area has a history of considerable modification, with residential, business, and commercial developments surrounding Angle Lake. For this project's purposes, disturbance of the sediments in Angle Lake will be limited to the replacement of structures associated with this project, within southeastern portion of Angle Lake. This has already been previously disturbed with the installation of existing waterfront structures on site. Therefore, disturbance of unknown cultural resources is highly unlikely, since none were observed during past construction activities of the park and waterfront.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.**

The project will not require ground-disturbing work beyond excavation of the existing bedding layer beneath the boat ramp. Fill will be placed along the shoreline, but no excavation will occur as part of the fill component of the project.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.**

N/A

14. Transportation [\[help\]](#)

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.**

The site is served by the A Line Rapid Ride - International Blvd & 195th St. bus station (stop #60860), which primarily runs along Highway 99 (Pacific Highway S), and is easily accessible from Interstate 5 and Highway 518. Aside from the short-term commutes from workers and transport of construction equipment/materials,

this project will not affect traffic or transit along Highway 99 or access to the existing street system. This project will not require any modifications to existing site access.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

Angle Lake Park is served by the A Line Rapid Ride - International Blvd & 195th St. bus station (stop #60860). The project area will not overlap with public transit currently serving Angle Lake Park.

c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

Parking will not be affected.

d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No, the project will not require any changes to roads or transportation facilities.

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No – the project will partially occur in water, however, Angle Lake is not part of any major transportation routes. The project will not use water, rail, or air transportation.

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

No vehicular trips will be generated by the completed project.

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No, the proposal will not interfere with or otherwise affect or be affected by the movement of agricultural and forest products.

h. Proposed measures to reduce or control transportation impacts, if any:

No transportation impacts will occur.

15. Public Services [\[help\]](#)

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No, the project will not result in an increased need for public services.

- b. Proposed measures to reduce or control direct impacts on public services, if any.

N/A

16. Utilities [\[help\]](#)

- a. Circle utilities currently available at the site:


electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No utilities are proposed for the project.

C. Signature [\[HELP\]](#)

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: 
Name of signee Michael Fitzpatrick
Position and Agency/Organization Deputy Parks + Recreation Director
Date Submitted: 4-4-25

D. Supplemental sheet for nonproject actions [\[HELP\]](#)

(IT IS NOT NECESSARY to use this sheet for project actions)

Because these questions are very general, it may be helpful to read them in conjunction with the list of the elements of the environment.

When answering these questions, be aware of the extent the proposal, or the types of activities likely to result from the proposal, would affect the item at a greater intensity or at a faster rate than if the proposal were not implemented. Respond briefly and in general terms.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

3. How would the proposal be likely to deplete energy or natural resources?

Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Proposed measures to protect such resources or to avoid or reduce impacts are:

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

Proposed measures to avoid or reduce shoreline and land use impacts are:

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.