



King County

ENVIRONMENTAL CHECKLIST

Cove Creek Shoreline Enhancement Project

Purpose of the Checklist:

The State Environmental Policy Act (SEPA), Chapter 43.21 RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

Instructions for Applicants:

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can.

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write “do not know” or “does not apply.” Complete answers to the questions now may avoid unnecessary delays later.

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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 a significant adverse impact.

Use of Checklist for Nonproject Proposals:

Complete this checklist for nonproject proposals, even though questions may be answered “does not apply.” In addition, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (PART D).

For nonproject actions, the references in the checklist to the words “project,” “applicant,” and “property or site” should be read as “proposal,” “proposer,” and “affected geographic area,” respectively.

A. BACKGROUND*1. Name of the proposed project, if applicable:*

Cove Creek Shoreline Enhancement Project

2. Name of Applicant:

King County Department of Natural Resources and Parks
Water and Land Resources Division

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

Greg Rabourn, Vashon Island Steward
King County Water and Land Resources Division
201 South Jackson Street, Suite 600
Seattle, WA 98104-3855
Phone: 206-477-4805
Fax: 206-296-0192
Greg.rabourn@kingcounty.gov

4. Date checklist prepared:

March, 2015

5. Agency requesting checklist:

King County Department of Natural Resources and Parks
Water and Land Resources Division

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

Project construction is planned to occur in the autumn of 2015.

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

No.

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

Cove Creek Shoreline Restoration Cultural Resources Risk Assessment, prepared by ICF International, October, 2012;

Critical Areas Report for the Cove Creek Shoreline Enhancement Project, King County Water and Land Resources Division; (in progress, likely to be completed in April, 2015).

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.

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

- King County Clearing and Grading Permit (King County DDES);
- Hydraulic Project Approval (Washington Dept. of Fish and Wildlife);
- Washington State Shorelines Substantial Development Exemption (King Count DDES);
- Section 401 (Clean Water Act) Water Quality Certification (Washington Dept. of Ecology);
- Coastal Zone Management Act Concurrence (Washington Dept. of Ecology);
- Nationwide 27 Permit (Aquatic Habitat Restoration), Section 10 (Rivers and Harbors Act), (U.S. Army Corps of Engineers);
- Section 7 (Endangered Species Act) compliance;
- Section 106 (Historic Preservation Act) compliance.

11. *Give a 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 the project description.)*

King County proposes to replace an existing 24" concrete culvert, which conveys Cove Creek beneath 137th Avenue SW to Puget Sound, with a 12'-wide box culvert to improve fish access to Cove Creek and associated wetlands. Gravel will also be placed on the shoreline just east of the culvert to enhance shoreline habitat characteristics.

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 plan, 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 proposed project is located on the west shoreline of Vashon Island, west of the town of Vashon (see Figure 1). The culvert to be replaced is beneath 137th Avenue SW, near its terminus. The project will occur primarily on King County road right-of-way, but a small portion will also occur on property owned by Puget Sound Energy (PSE). The project site is in the SE quarter of Section 26, Township 23N, Range 02E; Thomas Bros. page 653 at D-5.

B. ENVIRONMENTAL ELEMENTS**1. Earth**

- a. *General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other.*

The site is a flat terrace at the head of a small cove of Puget Sound and at the mouth of a small ravine. 137th Avenue SW runs along the shoreline immediately landward of a concrete bulkhead.

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

The steepest portion of the site is less than 5% slope.

- 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 prime farmland.*

Soils on the site vary depending upon their location relative to the shoreline. Areas waterward of the shoreline are sand, gravel and silt, including mudflats. Areas landward of the shoreline are primarily road fill (gravel and sand) underlain by silts and peat.

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

The site is a Puget Sound shoreline, which would naturally be subject to erosion from wave action and other natural processes. However, the existing bulkhead protects the site from such forces. Portions of the existing bulkhead have collapsed or are in the process of failing. The roadway that provides access to the site, 137th Avenue SW, shows signs of instability (cracking of pavement, etc.) where it traverses a steep slope.

- e. *Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate the source of fill.*

About 90 cubic yards (CY) of roadfill and the substrate beneath it will be displaced by the new box culvert. Once installed, the interior of the culvert will be partially backfilled with approximately 30 CY of clean cobble, gravel and sand. Up to 50 CY of clean and appropriately sized gravel may be placed waterward of the shoreline, but above the Mean High Water (MHW) line to enhance beach habitat. Gravel placed on the beach and inside the culvert will likely come from a local commercial gravel pit and from beach material displaced by the new culvert/stream outlet.

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

Replacement of the existing 24" concrete culvert with a 12'-wide box culvert will facilitate more sediment movement back and forth between the marine beach area and the stream/wetland complex. This will provide ecological benefits to both the marine and terrestrial systems. The enlarged culvert opening may cause some minor erosion and enlargement of the stream channel near the culvert inlet.

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

Impervious surface area will not increase as part of this project. A portion of the roadway (137th Ave. SW) over the new culvert will need to be replaced and slightly elevated. Approximately 1,250 square feet of new pavement may be applied to the roadway in areas that are presently already paved.

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

Some erosion of the stream banks of Cove Creek and adjacent wetlands (and fill historically placed in those wetlands) due to the replacement of the existing culvert is a desirable effect due to the reintroduction of natural shoreline processes. Temporary Erosion and Sediment Control (TESC) BMPs will be utilized as necessary during construction. The culvert work area will be isolated from the stream and tides during construction. Gravel placement on the shoreline will occur during low tides to avoid direct placement in the water. TESC supervision by a certified erosion and sediment control lead (CESCL) will minimize the potential for erosion during construction.

2. Air

- a. What types of emissions to the air would result from the proposal (for example, dust, automobile, odors, industrial wood smoke, greenhouse gases) during construction and when the project is completed? If any, generally describe and give approximate quantities, if known.*

The project has the potential to generate construction related dust. Dust control will be performed on an as-needed basis by stabilizing construction access surfaces and watering. All loads of soil or other debris leaving the site will be covered.

The completed project will not emit gasses with the potential to negatively affect climate change.

Construction equipment, including cranes, excavators, dump trucks and pick-up trucks, will be used during construction. This equipment will emit gasses including carbon dioxide (CO₂), methane and nitrous oxide, as well as others in much smaller amounts. The global warming potential (GWP) of these compounds is measured in "carbon dioxide equivalents," or CO₂e, which converts the GWP of various gasses into their equivalent in CO₂. The amount of CO₂e that may be emitted as a result of constructing the proposed project has been estimated by computing the amount of fuel to be consumed by equipment used to construct the project or by estimating their hourly output of various greenhouse gases. Fuel consumed or hourly output is then converted into CO₂e emitted using formulae developed by the Energy Information Administration (EIA) of the U.S. Department of Energy.

Construction of the proposed project will likely result in the discharge of approximately 9.11 tons of CO₂e to the atmosphere.

- 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 the air, if any:*

Engines will not idle unnecessarily and will be kept in proper working order with all filters and other emission control devices functional.

3. Water

a. Surface:

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

Yes. The site is on the shoreline of Colvos Passage in Puget Sound. There is also a small, perennial stream called Cove Creek that enters Puget Sound within the project area via a culvert beneath 137th Ave. SW, which will be replaced as part of this project. There is a small (3,000 ft²), uninventoried Category III wetland landward of 137th Ave. SW and adjacent to Cove Creek.

- 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.*

Yes. Most of the project site and work proposed is within the tidal influence of Puget Sound and all of the work is within 200 feet of Puget Sound. The project will replace an existing 24" wide culvert that conveys Cove Creek beneath 137th Ave SW and into Puget Sound with a 12'-wide box culvert with a gravel streambed. Installation of the new culvert will move the outfall where Cove Creek enters Puget Sound up to 15 feet west of its present location. The new culvert will allow greater exchange of water and sediment between the marine and terrestrial environments.

Up to 50 CY of appropriately-sized gravel will be placed waterward of the shoreline but above the median high water line (MHW) to improve beach habitats. No grading or filling will occur within the Category III wetland adjacent to the site. Some concrete debris from failed sections of the shoreline bulkhead that no longer provide any functional protection of the shoreline may be removed from the intertidal area.

The conceptual project plan is shown in Figure 2.

- 3) *Estimate the amount of fill and dredge material that could 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.*

Replacement of the existing 24" culvert with a 12' box culvert will entail excavation of up to 184 CY of soil from below the Mean Higher High Water (MHHW) elevation of 9.1 feet. Most of this is from beneath the existing road prism, landward of the MHHW mark. About 17 cubic yards will be excavated from the beach waterward of the culvert outfall to install the culvert, and then replaced with the same material. An equivalent volume will be excavated and replaced landward of the culvert inlet, including the bed of Cove Creek.

The roadfill will be reconstructed around the new culvert by replacing about 55 cubic yards below the MHHW mark and within the road prism. The interior of the box culvert will be backfilled with about 30 cubic yards of rounded cobble, gravel and sand to elevations that match the existing streambed at the inlet and the existing beach elevation at the outfall.

Up to 50 CY of clean, appropriately sized gravel from a local commercial gravel pit will be placed in the intertidal zone waterward of the shoreline and northeast of the culvert outfall to improve habitat conditions and possibly spawning conditions for beach-spawning fish.

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

Cove Creek will be temporarily diverted around the work area during replacement of the culvert. The duration of this diversion should be less than 5 days. Cove Creek is very small and normally flows at less than 1 cubic foot per second. Flows from Cove Creek will be diverted into a temporary pipe and conveyed past the worksite to Puget Sound. Any fish within the diversion area will be safely removed and relocated prior to diversion of stream flows.

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

Yes, the entire project is within the 100-year floodplain of Puget Sound. See Figure 3.

- 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 project should not involve any discharges of waste materials to surface waters.

b. *Ground:*

- 1) *Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities, if known.*

No.

- 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.*

None.

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 project will generate no stormwater runoff in excess of present conditions.

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

No waste materials will enter groundwater. All equipment will be kept outside of stream channels and wetlands. Crews will be equipped with spill response kits and will follow Best Management Practices.

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

All Best Management Practices will be followed during project construction to minimize impacts to surface and groundwater.

4. Plants

a. *Check or underline types of vegetation found on the site:*

- Deciduous trees: alder, maple, aspen, other
- Evergreen trees: fir, cedar, pine, other
- Shrubs
- Grass
- Pasture
- Crop or grain
- Wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
- Water plants: water lily, eelgrass, milfoil, other
- Other types of vegetation

Most of the work will occur within an existing road prism and within the footprint of an existing shoreline bulkhead. The roadway and bulkhead are adjacent to one another and very little vegetation exists between them. There is no vegetation waterward of the bulkhead. There are red alder trees, grasses and blackberry landward of the culvert. No trees should be removed as a result of this project.

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

Very little vegetation will be removed as a result of this project. Some grasses and blackberry plants will be removed from the area just landward of the road, near the inlet of the existing culvert.

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

None.

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

Areas landward of the roadway that are impacted by the construction will be revegetated with plant species appropriate to riparian and salt water habitats.

5. Animals

a. *Check or underline any birds or animals that have been observed on or near the site, or are known to be on or near the site:*

- Birds: hawk, heron, eagle, songbirds, other
- Mammals: deer, bear, elk, beaver, other
- Fish: bass, salmon, trout, herring, shellfish, other

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

ESA-listed Chinook salmon and steelhead trout, as well as coho salmon, likely use the nearshore areas during certain stages in their life cycles. Orcas, humpback whales and several species of ESA-listed rockfish (bocaccio, canary rockfish and yelloweye rockfish) may use the deeper waters of Colvos Passage, which are at least 350 feet from the work area.

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

Many anadromous salmonids, including Chinook and coho salmon, cruise the shorelines of Puget Sound after migrating out of their natal rivers and streams and before migrating to the open ocean. Anadromous fish are not known to spawn in Cove Creek. These species and others are expected to migrate past the project site and may utilize the nearshore areas and Cove Creek. Sand lance and surf smelt may also use the nearshore areas adjacent to the project site.

The project site is also on the Pacific Flyway and may serve as a resting area for migrating birds.

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

The purpose of this project is to enhance habitat quality of the site. Improving the culvert connecting Cove Creek to Puget Sound will enhance the accessibility and habitat value of Cove Creek to migrating juvenile salmonids and other species using the nearshore. Nourishing the beach with additional sediment may also improve spawning habitat for beach-spawning fish such as surf smelt and sand lance, which are prey fish for salmon.

6. Energy and Natural Resources

- 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 finished project will require no energy.

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

No.

- 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:*

Not applicable.

7. Environmental Health

- 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.*

No toxic chemicals or hazardous waste will be used or generated by this project.

Construction equipment could leak diesel gas, oil, or hydraulic fluid onto the site. Best Management Practices will be followed to prevent such leaks or releases of hazardous materials.

- 1) *Describe special emergency services that might be required.*

None.

- 2) *Proposed measures to reduce or control environmental health hazards, if any:*

All machinery will be inspected for leaks prior to entering the site. An emergency spill kit will be kept on the site at all times to respond to the potential loss of diesel gas, oil, or hydraulic fluid from construction machinery.

All construction equipment will be refueled at a designated fueling area on the access road. All equipment will be inspected on a daily basis to determine if there are leaking seals or gaskets that require replacement. Best Management Practices (BMPs) such as fuel containment and a spill response plan will be used during construction to reduce and control environmental health hazards. When feasible, biodegradable hydraulic fluid will be used.

b. Noise:

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

None.

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

Construction of the project will generate some noise due to the use of excavators and trucks. Construction of the project will likely take two to three weeks and construction activities will be limited to hours between 7:00 am and 7:00 pm, Monday through Saturday.

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

Use of heavy equipment to construct the project will be limited to the hours between 7:00 am to 7:00 pm, Monday through Saturday.

8. Land and Shoreline Use

- a. *What is the current use of the site and adjacent properties?*

Most of the project area is King County road right-of way associated with 137th Avenue SW, which runs along the shoreline immediately adjacent to the shoreline bulkhead. Small portions of the project site, including areas in the intertidal zone and just landward of the roadway, are owned by Puget Sound Energy which operates a cable station on the site. High voltage cables run underground from the cable station landward of the roadway, beneath the shoreline bulkhead and beach, and west to the Kitsap Peninsula. The King County Wastewater Treatment Division operates a wastewater treatment facility landward (south) of the project site. A pump station associated with the treatment facility is located about 25 feet from the culvert. 137th Avenue SW also provides access through the site to one private property but does not serve as residential access to that property.

- b. *Has the site been used for agriculture? If so, describe.*

There are indications (remnants of an old stock pond) that the site was once used to raise livestock; however, the site has not supported any sort of agriculture for at least 50 years.

- c. *Describe any structures on the site.*

Puget Sound Energy operates a cable station on the site, landward of 137th Avenue SW. The King County Wastewater Treatment Division operates a wastewater treatment facility landward of the project site.

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

No structures will be demolished for this project.

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

The site is zoned RA-2.5.

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

RA (Rural Area)

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

Conservancy.

- h. *Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.*

Yes. The site is a shoreline of Puget Sound and also contains a Type F aquatic Area and a Category III wetland.

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

None.

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

None.

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

Not applicable.

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

King County is working with Puget Sound Energy to ensure the compatibility of the project with their needs for their property.

9. Housing

- a. *Approximately how many units would be provided, if any? Indicate whether high-, middle-, or low-income housing.*
None.
- b. *Approximately how many units, if any, would be eliminated? Indicate whether high-, middle-, or low-income housing.*
None.
- c. *Proposed measures to reduce or control housing impacts, if any:*
Not applicable.

10. Aesthetics

- a. *What is the tallest height of any proposed structure(s), not including antennas? What is the principal exterior building material(s) proposed?*
No structures are proposed that would extend above existing grade.
- b. *What views in the immediate vicinity would be altered or obstructed?*
None.
- c. *Proposed measures to reduce or control aesthetic impacts, if any:*
The project may enhance the aesthetics of the site by removing broken concrete slabs from the intertidal area.

11. Light and Glare

- a. *What type of light or glare will the proposal produce? During what time of day would it mainly occur?*
None.
- b. *Could light or glare from the finished project be a safety hazard or interfere with views?*
No.
- c. *What existing off-site sources of light or glare may affect your proposal?*
None.
- d. *Describe proposed measures to reduce or control light and glare impacts, if any.*
None.

12. Recreation

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

There are no designated recreational opportunities in the area. Some passive recreation of the shoreline by nearby residents is assumed.

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

Passive recreational use of the site will be restricted during project construction for safety reasons, but will otherwise not be affected.

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

No measures will be necessary to reduce or control impacts to recreation.

13. Historical and Cultural Preservation

- a. *Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.*

The Washington Department of Archaeology and Historical Preservation's (DAHP) WISAARD database and King County's cultural resources database show no places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the project site.

- b. *Generally describe any landmarks or evidence of historical, archaeological, scientific, or cultural importance known to be on or next to the site.*

There no landmarks or evidence of historical, archaeological, scientific or cultural importance known to be on or next to the site.

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

The site has been surveyed by a professional archaeologist to reduce the risk of encountering cultural resources. No evidence of cultural resources was found on the site during the survey. An Unanticipated Discovery Plan will be developed and implemented to mitigate the impacts to any cultural resources discovered during project construction.

14. Transportation

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

Access to the site is via 137th Avenue SW and SW 172nd Street from the West Side Highway. Portions of 137th Ave SW are very steep (15%) and narrow. Providing access to the site for heavy equipment necessary to construct the project may preclude residential parking along these streets for up to six days, not necessarily consecutive, during construction.

- b. *Is the site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?*

The site itself is not served by public transit. The nearest public bus stop is about over two miles away on Vashon Highway SW.

- c. *How many parking spaces would the completed project have? How many would the project eliminate?*

The completed project will neither add nor reduce available parking. However, parking along 137th Ave SW and SW 172nd St will be restricted for up to 6 non-consecutive days over the two- to four-weeks of construction to provide access for construction equipment. Some areas along 137th Ave SW are used for parking by residents of Cove Walk, a shoreline community that has no direct road access and little or no designated parking area. The most critical times for restricting parking will be at the beginning and end of the project, when heavy equipment must be transported to and from the site. King County will work with local residents to minimize parking impacts and the times when parking will be restricted. Figure 3 shows areas where parking may be restricted during project construction.

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

Installation of a new box culvert beneath 137th Avenue SW (a public road) will require the roadway to be repaved in the vicinity. A short length of the roadway may also need to be slightly raised in elevation by about one foot over the culvert. The gradient of the road as it approaches this area will be tapered according to King County Roads Standards.

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

There are no rail or air transportation facilities nearby. While the project site is located on Puget Sound, the adjacent cove is too shallow for commercial boat or shipping traffic.

- f. *How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.*

None.

- g. *Proposed measures to reduce or control transportation impacts, if any:*

King County will work with nearby residents to minimize and accommodate impacts to on-street parking during construction of the project.

15. Public Services

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

No.

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

None.

16. Utilities

- a. *Underline utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.*

At least three separate utilities are located within or pass beneath the road right-of-way of 137 Avenue SW. These include aerial electrical cables that cross the project site as well as several buried high-voltage cables that originate at Puget Sound Energy's Cove Cable Station and pass under the road and beach within the work area. A wastewater treatment facility that serves the nearby residents is located landward of the roadway.

- 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 that might be needed.*

No utilities will be installed on the site as part of this project. King County will work with Puget Sound Energy and the King County Wastewater Treatment Division to avoid or minimize impacts to their utility infrastructure on and near the site.

Aerial electrical power lines may need to be temporarily removed to construct portions of the project. This may leave two adjacent residences without electrical power for up to five days. King County will work with those residences to mitigate the impacts to them resulting from construction of the project and temporary loss of electrical power.

C. SIGNATURE

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:



Title:

Project Manager/Senior Ecologist

Date Submitted:

April 1, 2015

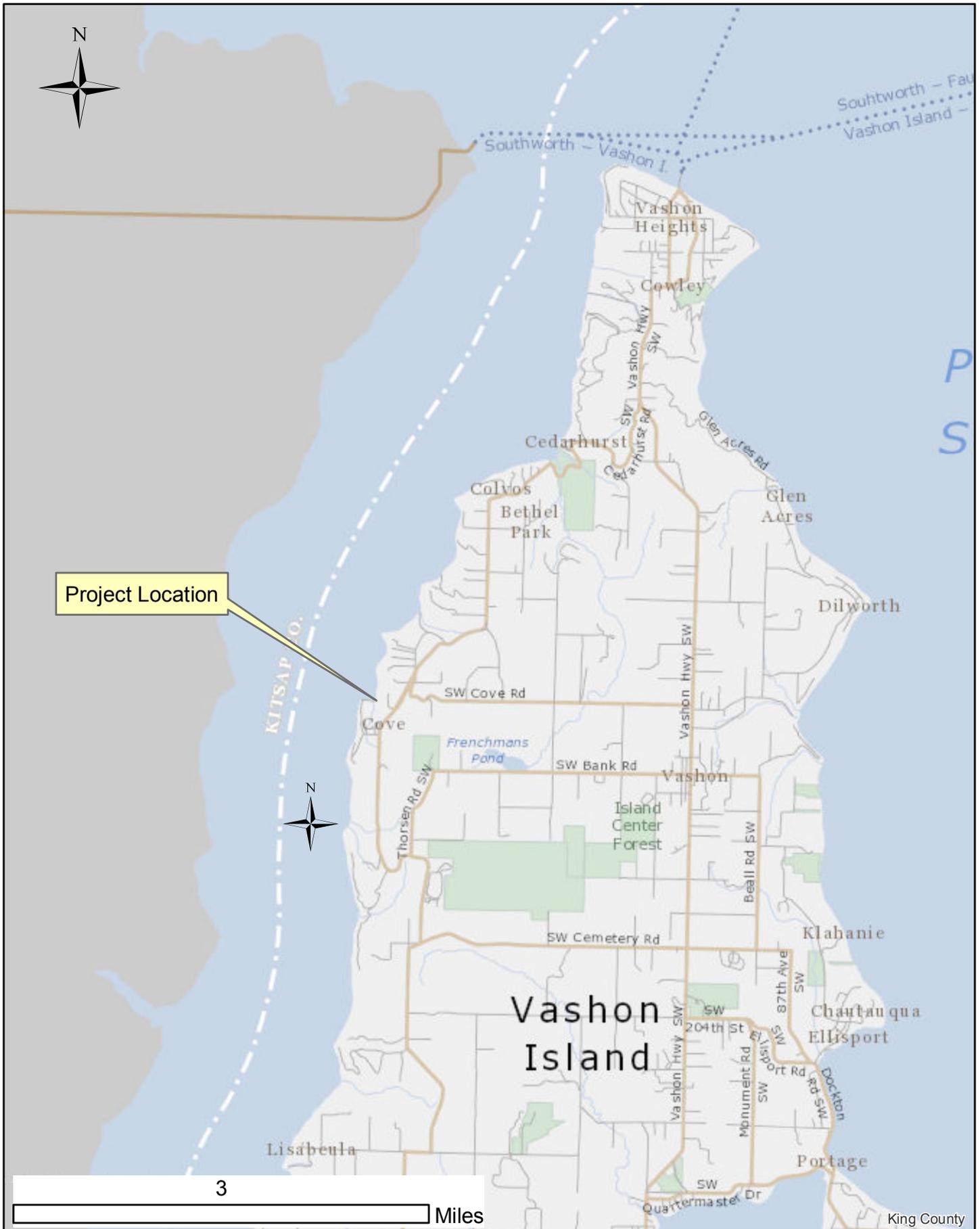


Figure 1: Project Location
Cove Creek Shoreline Enhancement Project

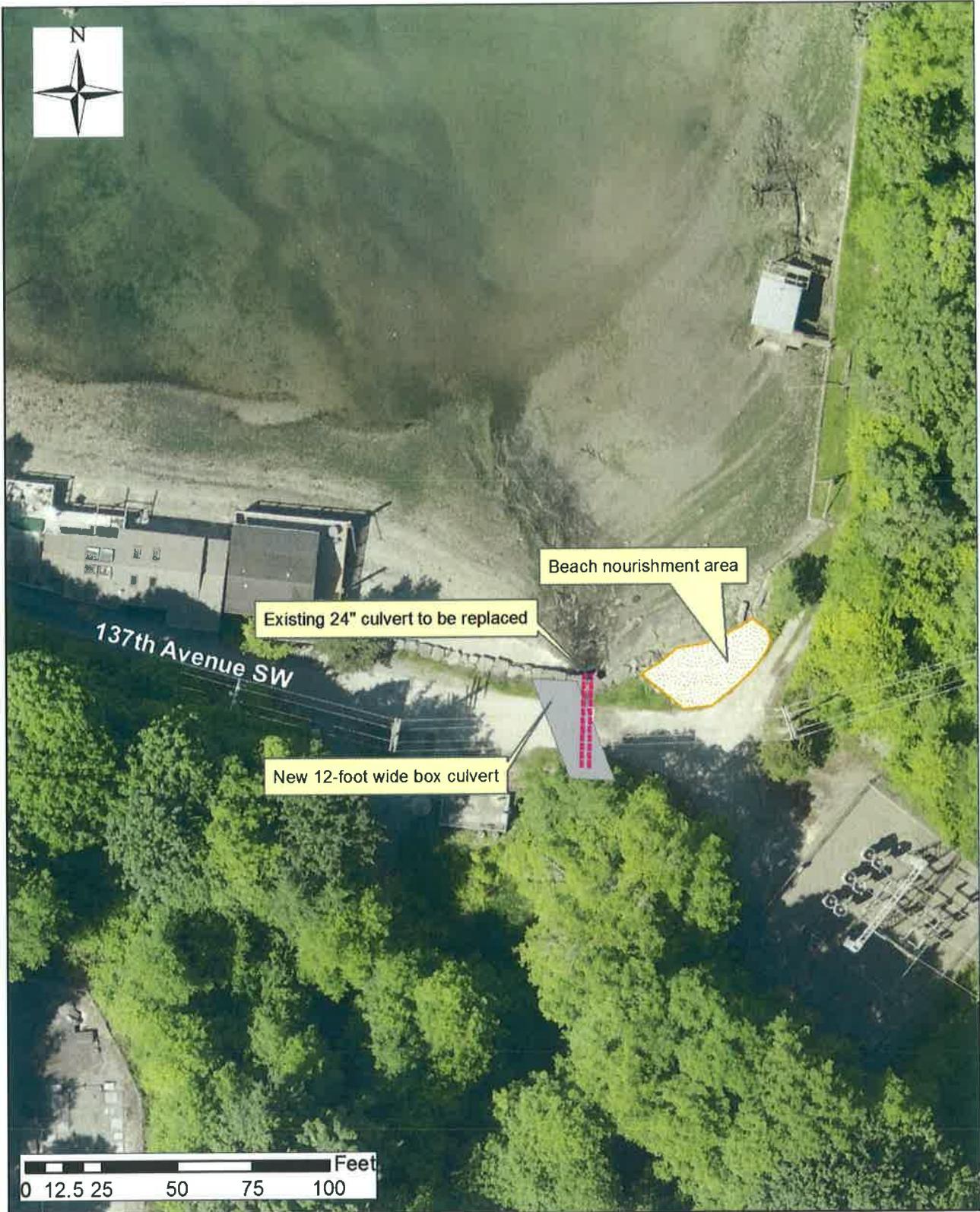


Figure 2: Conceptual Project Design
Cove Creek Shoreline Enhancement Project





Figure 3: Potential Temporary Parking Impacts
Cove Creek Shoreline Enhancement Project

Greenhouse Gas (GHG) Emissions Worksheet

Cove Creek Shoreline Enhancement Project

Note: The finished project will emit no GHGs aside from those occurring in the environment by natural processes. All emissions are therefore related to construction of the proposed project.

Distance of project site from King County Renton Shops, which serves as a surrogate for likely trip origins:

27.5 miles

Estimated days of construction activity:

20

<u>Vehicle</u>	<u>Miles/hours</u>	<u>Rate</u>	<u>fuel used</u>	<u>Em. Coef.</u>	<u>Emissions</u>	<u>Tons CO₂e</u>
Pickup	2200	20.7	106.28	19.56	2079.27	1.04
dumptruck	641	6.15	104.23	22.38	2333.03	1.17
Crane transport	55	1.9	28.95	22.38	647.96	0.32
Crane use	16	6.3	2.54	22.38	56.85	0.03
Culvert transport	165	1.9	86.84	22.38	1943.87	0.97
PC 120 Trackhoe	70	6.3	441.00	22.38	9871.34	4.94
Heavy Equip Transport	110	1.9	57.89	22.38	1295.92	0.65
TOTAL:					18228.24	9.11