



King County

ENVIRONMENTAL CHECKLIST

STUCK RIVER DRIVE REVETMENT REPAIR

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:

Stuck River Drive Revetment Repair

2. Name of applicant:

King County Department of Natural Resources and Parks
Water and Land Resources Division
River and Floodplain Management Section

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

Tom Bloxton
King County Water and Land Resources Division
201 South Jackson Street, Suite 600
Seattle, WA 98104-3855
Phone: 206-263-6870

4. Date checklist prepared:

May 26, 2020

5. Agency requesting checklist:

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

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

July 25 – September 30, 2020

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.

None.

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.

Permit	Issuing/Regulating Agency
Hydraulic Project Approval	WA Dept of Fish & Wildlife
SEPA (State Environmental Policy Act)	King County (lead agency)
Cultural Resources Review	King County Department of Natural Resources and Parks
ROW Special Use Permit	City of Auburn
Civil Site Improvement Approval	City of Auburn
Shoreline Exemption	City of Auburn

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 Stuck River Drive Revetment Repair Project will repair up to 300 feet of damaged revetment on the left (south) bank of the White River, near River Mile 7.9. The damaged area will be repaired with a tracked excavator operating from the top of the revetment to place large riprap at the toe of the revetment below the ordinary high-water mark (OWHM) within the pre-damaged revetment footprint. Up to three rows of 4-5 man riprap will be placed below the OWHM and will be backed with light loose riprap. The total volume of material to be placed as part of the project is approximately 500 cubic yards (CY). The repair has been designed to keep within the pre-damage footprint of the existing levee with no waterward expansion or increase in its height or length.

Removal of existing native trees and shrubs will be the minimum necessary to complete the repair. Invasive plants will be removed from the upper bank and top of revetment prior to construction. After the repair work, native trees and shrubs will be installed to stabilize surface soils and to enhance the existing riparian forest plant community. Large slabs of concrete exist on the revetment and were apparently placed there as armoring in the past. These pieces of concrete will be removed from the project site and approximately 60-90 CY of angular rock from the upper bank above OWHM will be removed to provide suitable area for plantings. Most of this angular rock will be reused as riprap on the lower bank. The concrete slabs will not be reused and will be disposed at an approved off-site facility.

Damages to the facility were first identified in 2018 during the annual low-flow inspections. The damage includes dislodged and missing toe riprap and erosion of the now unarmored revetment core resulting in an over-steepened slope. The damage was prioritized for repair, given that the revetment protects the White River Trail and Stuck River Drive, a sole access road to the Muckleshoot Indian Tribe Reservation, City of Auburn's Game Farm Wilderness Park and water supply wells, multiple private landowners, BPA power lines, and access to King County flood protection facilities upstream. As river flows continue to be directed at this section of the facility, repairing the damage as soon as possible will reduce the likelihood of further damage to the facility and reduce risk of impacts to the trail, road, and preserve needed access.

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 proposed project is located in the city of Auburn, east of the intersection of R Street SE and Stuck River Drive. The project is on the left (south) bank of the White River, at River Mile 7.9.

The work will be done on publicly owned land, partially on the City of Auburn parcel 2921059069 and the Stuck River Drive Right-of-way and the WA DNR hydro layer, within the SW ¼, Section 29, Township 21N, Range 5E.

Stuck River Drive 2020 Repair - Vicinity Map



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

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

a. General description of the site:

(circle one): Flat, rolling, hilly, steep slopes, mountainous, **other: riverbank**

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

The steepest slopes on site are within the eroded sections of the riverbank and are steeper than 1.5H:1V. The top of the bank, along the White River Trail and the Stuck River Drive road, is generally flat.

- 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 Natural Resources Conservation Service soil maps identify one type of soil in the project vicinity: Mixed Alluvial Land, 0 to 2 percent slopes. No soil is proposed for removal. There is no agriculture in the project area.

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

There is evidence of bank erosion on the left bank of the White River in the vicinity of the project. A repair to the revetment was conducted in 2008 downstream of the current repair site. The purpose of this project is repair damage to a King County flood control facility caused by river erosion.

- 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.

Riprap rock will be placed at the toe of an existing revetment for the repair. The total volume of material placed will be up to 500 cubic yards, which includes large rock (4-5 man), light loose riprap, topsoil, and mulch. The rock will be sourced from a local permitted quarry.

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

Yes, erosion could occur as a result of clearing, hauling of material, and general project construction. Erosion and sedimentation controls are planned will be installed prior to construction as described below.

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

There will be no new impervious surface created by this project.

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

A Temporary Erosion and Sediment Control Plan will be developed prior to construction, and measures will be implemented both prior and during ground disturbing activities, as needed. The following best management practices will be on-site or readily accessible during all construction activities: high visibility fence, straw wattles, and plastic sheeting. The drive mechanisms of heavy construction equipment (tracked excavator) will remain landward of the ordinary high water mark and all in-water work will be conducted during the approved fish work window in accordance with a Hydraulic Project Approval to be obtained from the Washington Department of Fish and Wildlife. Following construction, all disturbed areas will be stabilized by installation of native vegetation.

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.

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.

Construction vehicles and equipment (i.e. excavators, dump trucks, pick-up trucks, etc.) 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 9.84 tons of CO₂e to the atmosphere. A greenhouse gas emissions worksheet is attached to the end of this checklist.

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:

Engines will not idle unnecessarily and will be kept in proper working order with all filters and other emission control devices functional. To help reduce transportation costs, it is expected that the contractor will source construction materials from locations closer to the project site, thus helping reduce delivery vehicle mileage and corresponding emissions.

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.

Yes, the project is located on the left (south) bank of the White River. There are no wetlands or tributary streams within the project area.

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, the entire project will occur adjacent to and within the White River channel.

The drive mechanisms of heavy construction equipment will remain landward of the OHWM and all in-water work will be conducted during during summer low flows and in the approved in-water work window in accordance with a Hydraulic Project Approval to be obtained from the WDFW.

- 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.

Activity	Location	Quantity	Source of Fill
Revetment Armor Rock Placement	left river bank, <u>below</u> OHWM	290 CY	Offsite Quarry

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

No.

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

Yes. The proposed project site is within the current FEMA 100-year floodplain, the flood hazard area is delineated in the site plan.

- 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.

No.

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 from a well for drinking water or other purposes.

- 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 materials will be discharged to the ground.

c. Water runoff (including stormwater):

- 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.

See 1.h for description of erosion and sediment control measures. No runoff is anticipated to be generated beyond the project limits, nor will it affect runoff from other sources.

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

Waste materials will be prevented from entering the ground or surface waters by maintaining a clean site, properly disposing of debris and use of best management practices to filter and trap material within the project site.

Turbidity may be generated in the White River. However, impacts will be local and addressed by modifying work methods and installation of temporary controls.

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

The drainage patterns in the vicinity of the site will not be altered.

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

Temporary erosion and sediment control measures will be used during construction to reduce and control surface water runoff. Revegetation with native riparian plants within the project area will be used to protect surface water quality following construction. No groundwater impacts are expected during or following construction.

Discharges of turbid water will be managed to comply with state water quality standards. The primary technique used to control turbidity will be slowing the rate of in-water work.

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

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

deciduous tree: **alder, maple**, aspen, other; **cottonwood**
 evergreen tree: fir, **cedar**, pine, other: **Douglas-fir**
 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: **Himalayan Blackberry**

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

Two conifer trees (one measuring 6 inches diameter at breast height [DBH] and the other with two stems measuring 4 inches DBH each) and two deciduous trees (both measuring 4 inches DBH) will be removed for equipment access. Some larger trees will be partially limbed to provide equipment access. Undergrowth of predominantly blackberry will also be removed.

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

No threatened or endangered plant species have been documented on or near the project site.

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

The planting plan will include a combination of native trees and shrubs planted over 2,850 square feet of the upper bank slope, as well as willow stake installation in the upper bank. Significant trees will be protected during construction when feasible, however some large trees will receive partial limb removal to facilitate equipment access.

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

Himalayan blackberry

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.

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

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

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

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

Chinook salmon, steelhead trout, and bull trout all occur in the project area.

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

Various species of salmon and trout use the White River as a migration corridor between ocean habitat and spawning grounds.

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

This project has been designed to avoid and minimize direct construction impacts on fish in the White River. The construction-related action proposed to occur below the OHWM is in accordance with permit conditions and in-water work will occur during summer low-flow conditions within the work window required by the Washington Department of Fish and Wildlife to impact the fewest fish species and life stages possible.

During and following construction, native trees and shrubs will be planted to enhance riparian forest conditions at the project site. This riparian forest enhancement will benefit terrestrial wildlife as well as aquatic species.

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

These are no known invasive animal species on or near the project 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 completed project will use 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:

Energy conservation features are not applicable and therefore not included in 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.

The potential for spills of toxic or hazardous materials, and related risks of fire or explosion are limited to the petroleum fuels used for project construction, maintenance and irrigation. A spill prevention plan will be implemented to minimize the risk of spills, response kits will be maintained on site at all times during construction, and excess fuel will not be kept on site.

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

None are known.

- 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.

None are known.

- 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.

As related to the operation of construction vehicles, machinery and equipment, fuel, oil, and hydraulic fluid will be used and may be stored on the project site during construction.

- 4) Describe special emergency services that might be required.

The need for special emergency services is not anticipated. All work will be conducted in accordance with site-specific health and safety plans required by King County and/or construction contractors.

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

Best management practices such as fuel containment and a spill response plan will be used during construction to reduce and control environmental health hazards.

b. Noise

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

Minimal noise exists at the site vicinity. There is some vehicle traffic on adjacent and nearby local roads.

- 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.

Noise will be generated from construction equipment (e.g., truck traffic hauling materials to and from the site, excavator activity, etc.).

Noise impacts will be minimized by limiting the hours of construction in accordance with applicable regulations. Noise impacts will cease upon project completion; no long-term noise impacts would be created by or associated with the proposed project.

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

Standard mufflers will be used on all construction equipment during regular daytime working hours, and quieter equipment and/or construction practices will take place (turning off equipment when not in use).

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 project area is situated on a publicly owned parcel that is used as a public trail (White River Trail) and local road (Stuck River Drive). Across the river channel to the north is a group of privately owned residential parcels.

- 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?

The project site has not been used as working agricultural or forest lands. No agricultural or forest land will be converted to other uses as a result of the project.

- 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.

- c. Describe any structures on the site.

In addition to the revetment being repaired, there is an existing trail (White River Trail), road (Stuck River Drive), and guard rail within the project limits.

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

The guard rail will be removed during construction and will be rebuilt (in-kind) after construction is complete.

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

UNC (Unclassified zoning)

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

None.

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

Urban Conservancy Shoreline.

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

The entire project site is classified as a Landslide Hazard Area. The project site waterward of the White River Trail is in a Flood Hazard Area. The White River itself is classified as a King County Type S Aquatic Area.

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:

None, not applicable.

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

The proposed project, when completed, will remain compatible with the existing land uses in the area. Moreover, the completed project will enhance riparian and terrestrial habitat conditions along the river bank.

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

No impacts to agricultural and forest lands of long-term commercial significance are anticipated.

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

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:

None, not applicable.

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?

No structures are proposed. Not applicable.

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

None.

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

Any disturbed areas will be replanted to restore native riparian vegetation within the river corridor.

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

- a. What type of light or glare will the proposal produce? 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. Proposed measures to reduce or control light and glare impacts, if any:

None, there is no need for measures to mitigate light and glare impacts.

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

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

Recreational use landward from the project site includes river viewing, bird watching, and White River Trail users. Additionally, river rafters, canoers and kayakers occasionally float by the project site. However, according to the King County 2013 River Recreation Study, this reach of the White River experiences infrequent use by all categories of recreationists.

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

There will be temporary impacts to trail users during construction which is expected to last approximately two weeks during July or August 2020. The trail will be temporarily closed to trail users in the project vicinity.

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

In general, King County cannot eliminate the inherent risk that recreational users face when in or around the river. Recreational users still need to take appropriate precautions, pay close attention to river conditions, and make wise decisions consistent with their skills and abilities.

During project design and construction, King County will follow the County's Procedures for Considering Public Safety When Placing Large Wood in King County Rivers, which allows opportunities for the public to provide input during the design process for projects that place wood in King County rivers. During construction, if there is any necessary closure of the river in the project vicinity, it will be advertised through a variety of means, such as signage at upstream river access points, website alerts, and news releases.

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.

The existing revetment and levee are of sufficient age to be considered historic but do not meet criteria for design or construction to render them eligible for listing on national, state, or local registers.

- 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.

There are no landmarks, features, or other evidence of Indian use or occupation, nor are there any material evidence, artifacts, or areas of cultural importance on or near the site. There have not been any professional studies conducted at the site to identify such resources, other than the King County Historic Preservation Program's review in May 2020 (see below).

- 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 King County Historic Preservation Program (HPP) reviewed this project in May 2020 for the presence of archaeological and historical above-ground resources and for the probability of an inadvertent discovery of such resources during project construction. This screening included a review of historic registers, databases (including the King County Historic Resources Inventory database, Washington Department of Archaeology and Historic Preservation's "WISAARD"), historical maps and aerial photographs, and predictive GIS modeling. HPP concluded that the project areas have a Low Probability of containing archaeological resources because both were in the White

River in 1936 and both are on dredged fill or other recent sediments. In addition, King County WLRD has been coordinating with the Muckleshoot and Puyallup tribes in planning this project; neither Tribe has expressed any concerns about cultural resources in the project areas.

- 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.

No impacts to historic above-ground or archaeological resources are anticipated as a result of the proposed project. However, King County will ensure that an Inadvertent Discovery Plan is in effect for all ground disturbing activities. Additionally, work crews will be trained in recognizing archaeological materials and in the appropriate procedures they should follow in the event any such materials are discovered during the project.

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 project site is accessed via Stuck River Drive (City of Auburn local right-of-way), which is a critical access route to City of Auburn water wells and Muckleshoot Indian Tribe lands.

- 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?

No public transit is available at the site. King County Metro bus route 180 goes through 29th Street SE in a suburb in Auburn, approximately 1.4 miles from the project site.

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

None.

- e. 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).

If the White River Trail and/or Stuck River Drive is damaged during construction, they will be repaired once the main project is complete.

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

No.

- 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?

None.

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.

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

None, not applicable.

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.

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

There will be no impact on public services.

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

a. Circle utilities currently available at the site:
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other: none

f. 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 Thomas Bloxton

Position and Agency/Organization: Ecologist, King County River & Floodplain Management Section

Date Submitted: May 26, 2020

Greenhouse Gas (GHG) Emissions Worksheet

Stuck River Drive Revetment Repair

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 Renton Shops. Actual trip origins and distances will depend upon the construction contractor chosen: 20 miles

Estimated days of construction activity:

Equipment	Miles/Hours	Rate	Gallons /Hours	Pounds CO2 Per Gallon	Pounds CO2	Metric Tons CO2
Pickup Trucks	440 miles	20.7 miles/gal	21.26	19.564	415.85	0.19
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Dump Trucks	880 miles	6.15 miles/gal	143.09	22.384	3202.91	1.45
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Tracked Excavators	44 hours	6.5 gallons/hour	286	22.384	6401.84	2.90
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				TOTAL	21704.56	9.84

Carbon Sequestration

Approximately 29 trees will be planted as part of this project. Of these, 15 are categorized as fast-growing hardwoods and the remaining 14 as moderately-growing conifers. The carbon sequestration rates of these trees was calculated using data tables from the U.S. Department of Energy, Energy Information Administration.

Using these data tables, the proposed plantings (assuming 80% survival rate) will sequester **10.11 pounds (0.0046 metric tons) of carbon 35 years after planting.**