

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: *Sol Duc Weir Temporary Fix*
2. Name of applicant: *Doug Wiedemeier, WDFW*

3. Address and phone number of applicant and contact person: *600 Capitol Way N, Olympia WA 98501-1091; 360-789-2464; Doug Wiedemeier*
4. Date checklist prepared: *April 28, 2022*
5. Agency requesting checklist: *WDFW*
6. Proposed timing or schedule (including phasing, if applicable): *Begin construction in late June, with a completed structure functioning by early July, 2022. Structure needed for at least three summer/falls until a permanent fix can be designed, permitted and constructed in 2024 at the earliest. While in place, WDFW would be installing super sacks in the early summer, and removing them in the fall of each year.*
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. *Yes, as stated above, a permanent fix will hopefully be constructed in 2024/2025 depending on budget, design, and permitting. A separate SEPA review will be conducted as appropriate for the permanent structure.*
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *A on-site meeting was held April 4, 2022. While not all agencies made the meeting, there were representatives from WDFW Hatcheries, WDFW CAMP, Clallam County, and the Quileute Tribe present. A summary of this meeting and photos will be submitted. Mitigation for this action is being discussed with WDFW Habitat staff.*
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. *WDFW will pursue all County permits, a Corps permit, and a hydraulic project approval.*
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.
The Washington State Department of Fish and Wildlife (WDFW) proposes to construct a temporary structure to replace the weir that failed in during the 2021/2022 winter. The structure failed during extreme high waters. WDFW proposes to retrieve as much of the concrete that composed the original weir, and align these existing pieces along with an unspecified number of super sacks filled with streambed type material slightly upstream to avoid the deep hole that is present in the middle of the river. A 200 class excavator would be needed, and would drag and lift pieces into place. Two existing boat ramps would be used as needed, so no resulting damage to river banks. WDFW will clean off the upper boat ramp and dispose of the accumulated silt in an approved upland location. Parts of the old weir that are retrievable, but not reuseable, would be removed from the river. Fill (in super sacks and any riprap or quarry spalls) not to exceed 25 CY per year, and will be clean streambed type material..
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.

Located at 1423 Pavel Road, Beaver, WA. Township 30N, Range 13W, section 36. Clallam County. N 48.057214 W -124.308963. See Plans.

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

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

a. General description of the site:

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

b. What is the steepest slope on the site (approximate percent slope)? 50%.

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.

According to the USGS Web Soil Survey, soil present is Queets silt loam.

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.

Purpose: to control surface water elevation in the Sol Duc River so that WDFW can continue to exercise full water right and continue aquaculture at current levels. Remove silt on upper boat ramp prior to use.

Type: commercially available streambed mix.

Total Area: Maximum Total disturbed area of 15,800 square feet. Actual likely to be much less. See plans.

Source: Local commercial source.

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

Possibly, however WDFW proposes to build temporary weir slightly upstream to lessen chances of streambed erosion. Using the existing boat ramps will avoid any erosion of banks.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings) *There will be a slight increase as the proposed temporary weir will be longer than the failed one, since it will be angled upstream to avoid the scour hole.*

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *All work will be in the river. Turbidity will be monitored, and work adjusted as necessary. Super sacks will be removed annually in the fall and reinstalled early each summer.*

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. *There will be an increase in diesel emissions while construction is occurring. Upon construction completion, emissions will return to current levels.*
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. *None known.*
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: *None, as once construction is complete emissions will return to normal levels.*

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 involves work in the Sol Duc River, which flows into the Quillayute River.*
- 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 project will involve significant work within the river. See plans.*
- 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. *Not to exceed 25 CY. This will be streambed material inside super sacks, to be removed each fall and reinstalled with new bags in the early summer until the permanent fix is constructed. Part of that 25 CY might be some limited riprap and/or quarry spalls to armor the far shore and weir.*
- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. *The proposed project is all about maintaining existing surface water withdrawals. No additional surface water withdrawals will be needed.*
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. *Yes, the entire project is located in the 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. *No. Super sacks will be filled with streambed type material that will not be detrimental if some ends up in the river.*

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.*

- 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 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. *Presently, stormwater is shed off the site. No changes to the storm water will result from this project.*
- 2) Could waste materials enter ground or surface waters? If so, generally describe. *The WDFW crew will have spill equipment on site during construction.*
- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. *No.*

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: *BMPs will be used as needed, including seeding of any bare ground upon completion. Drainage will remain unchanged.*

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

b. What kind and amount of vegetation will be removed or altered? *No existing vegetation will be altered.*

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

No listed species are known to be on the site.

A search on the USFWS IPaC site registered the following species:

Yellow-billed cuckoo (Coccyzus americanus), a Threatened species with defined Critical Habitat. The project area is not located within Critical Habitat.

Streaked Horned Lark (Eremophila alpestris strigata), A Threatened species with defined Critical Habitat. The project area is not located within Critical Habitat.

Marbled Murrelet (Brachyramphus marmoratus), A Threatened species with defined Critical Habitat. The project area is not located within Critical Habitat.

Bull Trout (Salvelinus confluentus), a Threatened species with defined Critical Habitat. The project area is not located within Critical Habitat.

Dolly Varden (Salvelinus malma), listed as a Proposed Similarity of Appearance(Threatened) due to potential confusion with Bull trout.

Monarch butterfly (Danaus plexippus), a Candidate species. No critical habitat has been defined.

IPaC stated "There are no critical habitats at this location."

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: *Since we plan to use existing boat ramps, no impacts are anticipated. Should new bare ground be created, WDFW will seed as needed.*

e. List all noxious weeds and invasive species known to be on or near the site.
There are likely scotch broom (Cytisus scoparius), himilayan blackberry (Rubus armeniacus), and reed canarygrass (Phalaris arundinacea) present.

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 _____

b. List any threatened and endangered species known to be on or near the site.
Bull trout are possible during winter months. Marbled murrelets likely fly over the site during the breeding season.

c. Is the site part of a migration route? If so, explain.
Yes, the site is in the Pacific Flyway and is a migration route for anadromous fish.

d. Proposed measures to preserve or enhance wildlife, if any: *Project will likely avoid times of primary marbled murrelet activity: sunrise and sunset.*

e. List any invasive animal species known to be on or near the site.
None known.

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.

No changes to existing energy needs.

- 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:

None.

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. *Work will not start until after fire season has concluded. No increase from present hazard potential, other than heavy equipment. Spill response measures will be present on site at all times.*

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

No known contaminates at 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.

None 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.

Just fuel for equipment. Equipment will be fueled at least 50 feet from waters of the state.

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

None anticipated.

- 5) Proposed measures to reduce or control environmental health hazards, if any: *Ensure spill response measures are present at all times work is being done.*

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? *There will be a temporary increase in noise as the construction occurs. Once construction is done, noise levels will return to normal.*

- 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 there will be an increase in traffic and construction noise.

Long-term noise levels will return to normal.

3) Proposed measures to reduce or control noise impacts, if any:
Construction will be limited to 7 AM to 7 PM, unless local ordinances restrict noise further, in which case the more restrictive hours will be adhered to.

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. *Site is part of the Sol Duc Hatchery. The proposed project will not affect current land uses. The nearest residence is over 750 feet away from the project. The proposed project has considered recreational uses, including boating, and seeks to make the site safe for users. Additional signage may be added to alert boats that the weir has changed.*
- 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.*
- 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.
There is an intake building and two existing boat ramps.
- d. Will any structures be demolished? If so, what?
No.
- e. What is the current zoning classification of the site?
Forestland.
- f. What is the current comprehensive plan designation of the site?
Commercial Forest.
- g. If applicable, what is the current shoreline master program designation of the site?
Resource Conservancy.
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
None known.
- i. Approximately how many people would reside or work in the completed project?
WDFW staffing at the hatchery will not change because of this project.
- j. Approximately how many people would the completed project displace?
No people will be permanently displaced by this project.
- k. Proposed measures to avoid or reduce displacement impacts, if any:

No people will be permanently displaced by this project.

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

This proposal will not change use; therefore, compatibility is not an issue. Project purpose is to restore function of weir that was lost during high flows this past winter. Consideration of fall boaters includes retrieval of concrete and metal that formed failed weir, a low spot for boats to cross weir, and signage as needed to direct boaters to new crossing location.

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

None proposed or needed, since there will be no impact.

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.

No impact to housing.

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

None.

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?

All resulting work will below OHWM. Signage will be the only new feature above OHWM.

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

No changes to views as a result of this proposal.

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

None proposed or needed.

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

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

There will be no changes in light or glare.

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

No, there should be no change.

- 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 anticipated.

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

- a. What designated and informal recreational opportunities are in the immediate vicinity?
People likely come to catch fish, bird watch, hunt, and enjoy the outdoors. Public use will continue as present once construction is complete. This section of river is floated by Steelhead fishermen. Signage will be added to ensure users are alerted to changes.
- b. Would the proposed project displace any existing recreational uses? If so, describe.
Only during construction for safety reasons. Once construction is complete, all recreational uses can resume as usual.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: *Signage is proposed to alert boaters that the weir, and passage, have changed.*

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.
No previously identified pre contact or historic archaeological sites within the proposed project area. 45CA647 the Spruce Railroad is within 1-mile of the project area. The weir itself while over 50 years of age is no longer extant.
- c. 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.
Four previously conducted cultural resource surveys have been done within 1-mile of the project area Emerson 2012, Smith et al. 2013, Hauge 2017, Iversen 2019. No pre contact or historic cultural resources were identified in the proposed project area.
- 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.
Prior cultural resource surveys, cultural resource desktop review, and a site visit conducted in December of 2021 were all used to assess potential impacts to cultural resources.
- 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.
The WDFW inadvertent discovery plan will be in place during project implementation.

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.
See plans. Pavel Road is the access, off the Mary Clark Road, off Hwy 101.

- 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 serving this site. Nearest bus travels on Highway 101 and likely stops in Sappho, 1.6 mile away by road.
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?
No change.
- 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.
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
Site only uses roads for 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?
Increased vehicular trips would occur during construction only. Once the project is completed, volumes will return to normal.
- 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:
No transportation impacts anticipated.

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.
None proposed or needed.

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

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

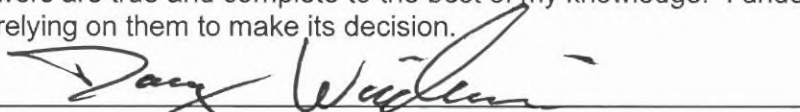
- d. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

No additional utilities needed or utilized at the site.

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 Doug Wiedemeier

Position and Agency/Organization Permitter, WDFW, CAMP

Date Submitted: 4/28/2022