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: *Wallace River Hatchery –Intake and Pond Upgrades*

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*

4. Date checklist prepared: *December 9, 2019*

5. Agency requesting checklist: *WDFW*

6. Proposed timing or schedule (including phasing, if applicable): *This will be a multi-phase project (see phasing plan). Begin construction in summer 2021 (if permits obtained) and complete by fall 2026.*

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. *No other work currently planned.*

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *A wetland survey and critical areas report are available.*

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 hydraulic project approval, a DNR aquatic lands permit and a Corps permit.*

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 screens and fish ladders at the intakes do not meet state and federal standards and need to be brought up to current state and federal standards. This includes replacing the Wallace weir and modifying the May Creek weir.*
A new sediment settling pond will be constructed to reduce sediment passed into the hatchery and the wear it has on hatchery pumps and pipes.
The lower channel spanning weir on May Creek will be removed to improve fish passage, while adult ponds will be added and connected with a new fish ladder. Weir removal will include restoring the stream bed and installing a roughened channel to control bed elevations and avoid a headcut.
New raceways will replace the existing ponds on the Wallace side of the hatchery.
The two residences and garages on the Wallace side will be replaced.
A new pollution abatement pond will be constructed.
Many new pipes and electrical conduit will be placed and buried. Additional plans available upon request

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.
14418 383rd Ave SE, Sultan, WA 98294. Township 28N, Range 8E, section 36. Snohomish County. N 47.868133 W -121.716667 See plans for additional location information.

B. Environmental Elements [HELP]

1. Earth [help]

a. General description of the site:

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

b. What is the steepest slope on the site (approximate percent slope)? *Approximately 100% for very short distances.*

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.
Puyallup sandy alluvium

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 improve performance of hatchery and meet all state and federal standards for surface water withdrawls.
Type: fish hatchery
Total Area: Total disturbed area of 412,310 square feet; 57,550 sq. ft. below OHWM and 354,760 sq. ft. above OHWM.
Any imported fill will be from a commercial source.
Below OHWM there will be 3558 CY of cut and 3431 CY of fill.
Above OHWM there will be 24,177 CY of cut and 33,187 CY of fill.
See permitting plans for details.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.
Possibly, however BMPs will be in place. Once construction has been completed and soils are stabilized, there should be minimal risk of future erosion. Upon completion, areas of bare soils will be seeded. Significant plantings of trees and shrubs will occur after construction. See sheet 6 of permit plans.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings *Overall there will be a removal of impervious surface, resulting in 13,032 sq. ft. less impervious area upon completion. See sheet 7 of permit plans.*

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *BMPs will be in place during and after construction to control erosion. The new site will be graded to*

thoughtfully allow runoff to move into areas that will not present problems. Stormwater biofiltration swales (5 total) will be added.

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 completion emissions should 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 should 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 hatchery lies on the banks of the Wallace River and May Creek. Both are Type S waters.*

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 in water, at both intakes, and the reshaping of channel beds above and below each intake. 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.
Overall, there will be 3558 CY of fill will be removed below OHWM, and 3431 CY of fill will be placed below OHWM. Source will be determined by yet-to-be-selected contractor, but will likely be a local commercial source.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. *Yes, but the surface water intakes are already used under existing water rights. Both surface water intakes will be replaced and made more efficient and compliant with state and federal standards.*

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

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. *Yes, the hatchery will continue to discharge, while meeting water quality standards under the existing NPDES*

permit. A new pollution abatement pond will be constructed. WDFW will work with Ecology to update the NPDES permit for this facility.

b. Ground Water: [help]

1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known. *Yes, groundwater is currently withdrawn from existing wells for domestic and hatchery use. The wells will remain unchanged.*

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 change from current discharge.*

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. Future runoff (stormwater) will be treated with new biofiltration swales. See Plans. Upon project completion the new pollution abatement pond will improve the discharge to state waters.*

2) Could waste materials enter ground or surface waters? If so, generally describe. *This project will not increase waste materials from current levels. The routing of waste materials will improve when the project is implemented. WDFW will work with Ecology to update the NPDES permit for this facility.*

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. Yes. *There will be 5 new bioswales constructed. Also the reduction of impervious surface should improve overall drainage.*

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: *New biofiltration swales (5) to be constructed.*

4. Plants [help]

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

_x___deciduous tree: **alder, maple**, aspen, other: **cottonwood**
_x___evergreen tree: **fir**, **cedar**, pine, other
__x__shrubs
__x__grass
____pasture
____crop or grain

____ Orchards, vineyards or other permanent crops.
__x__ 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? *WDFW will seek to keep as many mature trees as possible, and try to avoid impacting wetland areas. Project will remove invasive species and plant native species.*

c. List threatened and endangered species known to be on or near the site.
Golden paintbrush are listed as potentially found in Snohomish County per the USFWS web site. However the project site in not within the listed range. If found within the project area, regulatory agencies will be notified and consulted as necessary.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: *WDFW proposes to plant or seed the following species (assuming availability): soft rush, ladyfern, Douglas spirea, spikerush, sword fern, willow, stink currant, Nootka rose, salmonberry, and native deciduous trees.*

e. List all noxious weeds and invasive species known to be on or near the site.
Known invasive species include Himalayan blackberry, and reed canary grass.

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.
***Steelhead**: Puget Sound DPS steelhead are listed as threatened, and are known to be in both the Wallace River and May Creek.*
***Chinook**: Puget Sound chinook are listed as threatened, and are found in the Wallace River.*
***Marbled Murrelet**: Designated murrelet section 3.4 miles away. Wallace River is a possible flight corridor. Murrelets are listed as threatened. Project is not in potential habitat.*
***Oregon spotted frog** is listed as threatened. Project is in range, but not within critical habitat.*
***Yellow-billed cuckoo** is listed as threatened, but populations are not well known in Washington. Project is not located in critical habitat.*
***Northern spotted owl** is listed as threatened. Project is not in critical habitat, closest regulatory owl circle is 12 miles away. Project is not in potential habitat.*
***Bull trout** are listed as threatened. The Wallace River is listed as critical habitat. Bull trout are not likely to be present when construction occurs due to higher water temperatures in summer months.*
***Grizzly bear** are listed as threatened. Project is located outside of listed range for species.*
***Gray wolf** are listed as endangered. Project is within range, but outside critical habitat. No known gray wolves near this area.*

Canada lynx *are lised as threatened. Project is within range of species, but not in critical habitat. Area immediate of hatchery is not suitable habitat.*

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

d. Proposed measures to preserve or enhance wildlife, if any: *WDFW will remove the lower May Creek weir, which will improve fish migration. Large wood will be placed in May Creek to increase aquatic habitat value and direct flows. Plantings and vegetated soils lifts will be done on both the Wallace River and May Creek, where disturbance occurs. The new intakes will meet all state and federal standards for screening and fish ladders will restore passage.*

e. List any invasive animal species known to be on or near the site.
Invasive species include European starling and house sparrow.

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 multi phase reconstruction will make raising fish more efficient. The new water systems will increase re-use and include filtering which will help long-term as water quality and quantities become more challenging. The two new residences should be more efficient. The use of other utilities is expected to remain similar to current.

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:

There may be an utility savings resulting in eliminating the spawning channels and using standard raceways instead. New pumps should be more efficient than current ones.

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. *No increase from present hazard potential.*

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.
Hatcheries use several chemicals to keep fish healthy, including treatment for parasites with formalin. These chemicals are already used at the existing site. Other utilities will be located and avoided during construction.

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.
Hatcheries use several chemicals to keep fish healthy, including treatment for parasites with formalin. These chemicals are already used at the existing site.

4) Describe special emergency services that might be required.
None anticipated.

5) Proposed measures to reduce or control environmental health hazards, if any: *The elimination of a weir and building off-channel adult ponds for May Creek will improve fish access upstream and improve downstream flow of wood and sediment.*

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 should either return to normal or decrease slightly, as pumps will be newer and potentially quieter.*

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 or decrease slightly.

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. *The site is currently already used as a fish hatchery. Adjacent properties are either residential or growing timber.*

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? *This site has been a fish hatchery since the early 1900's.*

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 existing hatchery (office, ponds and raceways, bridge over May Creek, water distribution tower, pollution abatement pond, a weir to direct returning salmon back into the hatchery and fish ladder and three residences) at this location.

d. Will any structures be demolished? If so, what?
Yes, see plans. Both surface water intakes will be replaced. A channel spanning weir on May Creek will be removed and the weir on the Wallace River will be replaced. The fish ponds on the Wallace side will be replaced with standard raceways. Adult ponds will be constructed on the May Creek side along with a fish ladder to get fish handling out of May Creek. Two residences and garages will be replaced.

e. What is the current zoning classification of the site?
Rural-5 Acre

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

g. If applicable, what is the current shoreline master program designation of the site?
Rural Conservancy/Aquatic Shoreline Management Area.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
There are several wetlands that have been identified through field investigations .
Most will be avoided by construction activities. See plans and wetland report.

i. Approximately how many people would reside or work in the completed project?
There will be no change. There are three families living on site, and that will not change.

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. The agency will find temporary housing for employees displaced by residence replacements.

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.

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.

Two residences will be replaced. The two houses (modular) proposed for replacement have exceeded their life expectancy. Housing is provided for staff so that response time to emergencies involving fish life is minimal.

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

Project will involve replacement of two houses.

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

No impacts to housing not on WDFW lands.

10. Aesthetics [help]

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

The new storage building on the Wallace side will be 14.2 feet tall. Exterior building materials will likely be concrete and sheet metal, with a yet to be determined roof material.

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 anticpated. Should there be any impacts, WDFW will seek to correct or mitigate.

12. Recreation [help]

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

People come to the hatchery to catch fish and bird watch. Public use will continue as present once construction is complete.

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: *None.*

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.
Several of the built environment components of the hatchery (residences, ponds) are over 45 years of age and are potentially NRHP eligible. Evaluation for the national and state register is needed.

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.
No previously identified pre contact cultural resources. One monitoring report (Rorabaugh and Trautman 2019). Historic property inventory forms, survey, and additional monitoring are planned.

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.
Archaeological survey, historic maps, tribal consultation, built environment assessment by historian.

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.
Archaeological survey, documentation of built environment features.

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. 383rd Ave SE is the access, off Hwy 2. Hatchery is signed.

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?
Snohomish Public Transit (route 270/271) travels up Hwy 2, with a stop near the 383rd Ave SE junction.

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 in overall parking for public.

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 should 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:
There may need to be a flagger and/or signs at the intersection of 383rd Ave SE and Hwy 2 on very busy days for large trucks. Otherwise 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 ___propane, well water_____**

c. 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: __12/9/19_____