

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: [\[help\]](#)

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: [\[help\]](#)

Calawah wild steelhead broodstock program at the Bogachiel Hatchery

2. Name of applicant: [\[help\]](#)

Washington Department of Fish and Wildlife (WDFW)

3. Address and phone number of applicant and contact person: [\[help\]](#)

WDFW Region 6 Office, 48 Devonshire Rd., Montesano, WA. 98563 (360) 249-1204

Attn. Robert Allan Hatchery Operations Manager

4. Date checklist prepared: [\[help\]](#)

December 17, 2019

5. Agency requesting checklist: [\[help\]](#)

WDFW

6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

First phase: release 2019 brood wild progeny steelhead in April and May 2020

Ongoing cycle yearly

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)

Add or improve predator control and pond maintenance

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#)

NPDES permit checklist to Ecology.

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. [\[help\]](#)

None.

10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#)

Future Brood Document approval by co-Managers

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

This program replaces the current wild broodstock program on the Bogachiel River. Within the last couple years since the program has switched to the Bogachiel River, there have been two major landslides impacting efforts to obtain broodstock. The Calawah tends to run clearer during the winter months. Additionally, finding a suitable acclimation site has been problematic. The existing Calawah Acclimation site would provide a suitable site to release steelhead from. Approximately 19,000 2019 brood year juvenile steelhead from wild Calawah steelhead adults will be reared and released from Calawah Acclimation Pond into their natal stream at approximately RM 1. Release size will be greater than 10 fpp in April and May of 2020. Broodstock will be captured by hook and line or seine within the Calawah River primarily by local guide association members. Many of the drift boats have live tanks on board to accommodate holding of the wild steelhead. Adult steelhead will then be transferred to WDFW planting tanks where they are then transported to the Bogachiel Hatchery for holding until ready to spawn. Every attempt will be made to live spawn broodstock and return back to the Calawah. All released smolts will be adipose clipped with additional external mark or coded wire tagged.

Subsequent years will have a release goal of 35,000 to 50,000 progeny from wild parents.

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. [\[help\]](#)

The project is located at the Bogachiel Hatchery, street address 2944 Bogachiel Way, Forks WA. 98331. The hatchery is located in Clallam County and in Township 28N Range 13W, Section 18.

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B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

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

a. General description of the site: [\[help\]](#)

Work site is

(circle one): **Flat**, rolling, hilly, steep slopes, mountainous, other _Road area is flat with naturally fed spring forming a pond. _____

b. What is the steepest slope on the site (approximate percent slope)? [\[help\]](#)

Approximately 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. [\[help\]](#)

The soils within the project area are classified as Queets silt loam, a soil that is found on 0-5% slopes and often found in floodplains and terraces, is well drained, and has a parent material of alluvium.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [\[help\]](#)

At river mile 11.1 on the upper Bogachiel there was a recent mudslide but no issues or associated impacts on the worksite. Land surrounding acclimation site has been recently logged. It is possible that this logging could cause some soil instability. It is also possible the activity associated with rearing fish could cause some soil instability.

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. [\[help\]](#)

No fill associated with this project although some pond maintenance or placement of crushed rock over roadway is necessary.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#)

Small potential exists for some erosion during use and maintenance.

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

No increased impervious surface relative to current condition.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)

Some placement of crushed rock to limit exposure to native soils.

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. [\[help\]](#)

No increased emmissions.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#)

No

- c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)

No

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

- a. Surface Water:

- 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. [\[help\]](#)
Yes, Adult steelhead, eggs and juveniles will be held on spring water and acclimated in an existing pond that has been used for acclimating fish for decades. These unnamed springs for incubation and initial rearing discharge into the Bogachiel River and the Acclimation pond fed by a tributary of the Calawah River (unnamed spring) discharges in the Calawah 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. [\[help\]](#)

Yes, rearing will take place within these waters

- 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. [\[help\]](#)

None

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

Yes. A surface water right exists with Department of Ecology for fish propagation

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#)

Clallam county maps states location is within 200 feet of Calawah River but elevation of pond appears well above. No known flooding at acclimation site.

- 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. [\[help\]](#)

Some waste fish food and fish feces.

b. Ground Water:

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. [\[help\]](#)

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. [\[help\]](#)

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. [\[help\]](#)

Some run off from the existing road may flow into the rearing pond which discharges into Calawah river.

2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)

Small levels of uneaten fish feed and fish waste may be discharged into the Calawah River, overall hatchery discharge levels are monitored and limited by NPDES parameters and reported to Department of Ecology.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [\[help\]](#)

Flows may be temporarily altered for fish rearing and maintenance activities. Acclimation site has been used since approximately 1977.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [\[help\]](#)

None

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

a. Check the types of vegetation found on the site: [\[help\]](#)

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? [\[help\]](#)

No proposed removal of existing plants.

c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

The Natural Heritage Program (NHP) databases as well as the federal agency listings (USFWS) were examined for threatened or endangered plants on September 12, 2012. There is one state listed endangered species, *Abronia umbellata var. breviflora* and its historic range is not near the project site, and the conditions that it has been found in do not exist at the project site. The state listed threatened plants are *Astragalus australis var. olympicus* (current sightings are not near project site), *Claytonia multiscapa ssp. Pacifica* (no information available on this plant), *Coptis trifolia* (WA population found in cedar bogs which are not present at the project site), *Draba longipes* (historic distribution not near the project site), *Lobelia dortmanna* (occurs in the shallows of lakes and ponds which are not present on the project site), *Oxalis suksdorfii* (historic distribution in Clallam County was on a grassy sand dune, a habitat not found within the project site), *Polemonium carneum* (historic and current distribution are not near project area), *Potentilla breweri* (not found in project area), *Sanguisorba menziesii* (found in or near bogs which are not present on the project site), *Sparganium fluctuans* (may occur within project site), and *Synthyris pinnatifida var. lanuginosa* (distribution is not near project site).

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)

There will not be enhancement of vegetation on site.

e. List all noxious weeds and invasive species known to be on or near the site. [\[help\]](#)

Clallam County contains over 70 known noxious and invasive plant species. Top priority species include: Butterfly Bush (*Buddleia davidii*), Brazilian Elodea (*Egeria densa*), Garlic Mustard (*Alliaria petiolata*), Various invasive knapweeds, Eurasian watermilfoil (*Myriophyllum spicatum*), Parrotfeather (*Myriophyllum aquaticum*), Poison Hemlock (*Conium maculatum*), Purple Loosestrife (*Lythrum salicaria*), Scotch Broom (*Cytisus scoparius*), Scotch Thistle (*Onopordum acanthium*).

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. [\[help\]](#)

Examples include:

birds: **hawk, heron, eagle, songbirds**, other: **Kingfisher**
mammals: **deer, bear, elk, beaver**, other: **river otters**
fish: **salmon, trout**, Sculpin, other _____

b. List any threatened and endangered species known to be on or near the site. [\[help\]](#)

Threatened listed species in Clallam County include Northern spotted owl (*Strix occidentalis caurina*), Marbled murrelet (*Brachyramphus marmoratus*), Bull Trout (*Salvelinus confluentus*), and Green sea turtle (*Chelonia mydas*). Short-tailed albatross (*Phoebastria (Diomedea) albatrus*) is listed as endangered.

While the site is within the management buffer for marbled murrelet, the site is approximately a mile from the nearest sighting. With the recent clear-cut activity, it is unlikely that they would be found within the site. Spotted owls are present near the site, but the management buffers do not interfere with the project site. The other species are not likely to be present on the site.

c. Is the site part of a migration route? If so, explain. [\[help\]](#)

Many migratory bird species use this area as part of a migration route along the Pacific Flyway.

d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)

THESE UPDATES TO THE PROGRAM THROUGH ADIPOSE FIN CLIPPING CWT'ING AND REARING LOCATION supports mark-selective fishing opportunity, and improves the ability to evaluate and further limits impact on wild steelhead.

e. List any invasive animal species known to be on or near the site. [\[help\]](#)

Many invasive animal species reside in Clallam County. None reside in the area of the project proposal.

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. [\[help\]](#)

N/A

b. Would your project affect the potential use of solar energy by adjacent properties?

If so, generally describe. [\[help\]](#)

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: [\[help\]](#)

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. [\[help\]](#)

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

[\[help\]](#)

None

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. [\[help\]](#)

None

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. [\[help\]](#)

Formalin

4) Describe special emergency services that might be required. [\[help\]](#)

None

5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)

b. Noise [\[help\]](#)

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

None

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. [\[help\]](#)

Daily Feed blower from combustion engine

3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)

No noise reduction efforts are planned.

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. [\[help\]](#)

Acclimations site has been used for rearing and releasing fish for decades.

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? [\[help\]](#)

There are adjacent forest lands but will be no impacts.

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: [\[help\]](#)

No

c. Describe any structures on the site. [\[help\]](#)

Existing pond outlet structure and predator control

d. Will any structures be demolished? If so, what? [\[help\]](#)

No

e. What is the current zoning classification of the site? [\[help\]](#)

Designated Forest Land URL

f. What is the current comprehensive plan designation of the site? [\[help\]](#)

Commercial Forest

g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

The Bogachiel River is designated as Conservancy, but there is no designation at the project site.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

The area near the rearing ponds is listed as cavity duck breeding area. Outside of the project's impact area, south of the road and the ponds, is a palustrine aquatic habitat area. The site also falls within the marbled murrelet management buffer.

i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

Approximately six individuals reside on the hatchery grounds. Residences have been in place since 1968.

j. Approximately how many people would the completed project displace? [\[help\]](#)

None

k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#)

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

None

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)

None

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

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#)

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? [\[help\]](#)

NA

- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#)

None.

- b. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#)

None.

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

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#)

None.

- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)

No.

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#)

None.

- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#)

None.

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

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)

Recreational sport fisheries, wildlife viewing and boating.

- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)

No, should preserve and enhance fishing opportunities.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)
Project is designed to improve fish rearing conditions for unique steelhead populations within the watershed. Will provide additional recreational fishing opportunities

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. [\[help\]](#)

The Cultural Resources desktop review (September 13, 2018, D. Mackey, WDFW) shows that there are several structures that are between 45 and 51 years old. This project will not negatively impact. Actually, supporting this project supports maintenance and care for these structures.

- 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. [\[help\]](#)

There is evidence of Indian historic use or occupation near the site, within 0.6 mile. A cultural resource investigation is scheduled to take place in October 2018 wherever undisturbed soils exist within the Area of Potential Effect (APE).

- 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. [\[help\]](#)

Consultation with Quileute Tribe using verbal communication and Future Brood Document change protocols.

- 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. [\[help\]](#)

A monitoring plan will be in place utilizing coded wire tagging and creel surveys.

Study plans also allow for the potential of thorough evaluation through genetic analysis sonar technology and otolith analysis to evaluate positive or negative impacts to wild populations and performance of hatchery program.

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. [\[help\]](#)

Bogachiel Way accesses the hatchery.

- 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? [\[help\]](#)

No. The nearest stop is approximately three miles away at the Forks Transit Station.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)

None

- 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). [\[help\]](#)

No

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

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 non-passenger vehicles). What data or transportation models were used to make these estimates? [\[help\]](#)

No additional trips will be required to complete this project

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe. [\[help\]](#)

No

- h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#)

No

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. [\[help\]](#)

None

- b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)

None

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

- a. Circle utilities currently available at the site: [\[help\]](#)
electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other _____

utilities available at office but none at acclimation site.

- 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. [\[help\]](#)

No construction for this 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: Robert C. Allan

Name of signee Robert C. Allan

Position and Agency/Organization Regional Hatchery Operations Manager for Washington
Department of Fish and Wildlife

Date Submitted: 1-16-2020

D. supplemental sheet for nonproject actions [\[help\]](#)

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

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

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

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

Small levels of uneaten fish feed and fish waste may be discharged into the Calawah River, overall hatchery discharge levels are monitored and limited by NPDES parameters and reported to Department of Ecology.

Proposed measures to avoid or reduce such increases are:

Normal operations per NPDES permit

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

The goal of this plan is to supplement a consumptive fishery from a native stock. This will support and maintain appropriate non-treaty and treaty fisheries within the Quillayute River System. This program may provide a template for other steelhead hatcheries across the state seeking ways to minimize negative interactions between hatchery and wild steelhead. Returning adults will also contribute to the ecosystem through nutrient enrichment of the watershed with its decaying carcasses. These carcasses will also provide food for birds like eagles and others that prey upon these carcasses.

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

Monitoring will be in place to measure potential negative impacts to the local fishes.

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

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

N/A

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

Plan meets all federal, local and state requirements