

## WAC 197-11-960 Environmental checklist.

### ENVIRONMENTAL CHECKLIST

#### *Purpose of checklist:*

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

#### *Instructions for applicants:*

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

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

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

The checklist questions apply to all parts of your proposal, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

#### *Use of checklist for nonproject proposals:*

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS (part D).

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

#### A. BACKGROUND

1. Name of proposed project, if applicable:

**Bingham Creek Hatchery Improvements**

2. Name of applicant:

**Washington Department of Fish and Wildlife (WDFW)**

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

**Larry Peck, 600 Capital Way N; Olympia, WA. 98501-1091. (360) 902-8376**

3. Date checklist prepared:

**10-8-12**

5. Agency requesting checklist:

**WDFW**

6. Proposed timing or schedule (including phasing, if applicable): Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

**There are currently no plans for future additions or expansion beyond the current project proposal.**

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

**Hatchery and Genetic Management Plans (HGMPs) are prepared to reflect annual rearing and release programs that occur at this project. This data is available in FPC annual reports and in the FPC Hatchery Database ([http://www.fpc.org/hatchery/Hatchery Queries v2html](http://www.fpc.org/hatchery/Hatchery%20Queries%20v2.html)). Additionally a Geo-tech report is being completed to support final engineering requirements. Storm water pollution prevention plan will be prepared for this project.**

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.

**There are currently no other proposals directly affecting the property of the current proposal.**

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

**County Building permits.**

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 proposed project at Bingham Creek Hatchery consists of two primary elements:**

- 1. Demolition of and replacement of five (5) rearing ponds. Existing ponds are 20' X 80", proposed ponds 10' X 100' within the existing ponds footprint. The existing ponds are cracking and are at the end of their life cycle.**
- 2. Pipeline replacement of hatchery water supply from Bingham Creek. Project replaces approximately 3,050 linear feet of 24 inch concrete pipe with 24 inch solid wall fuse weld HDPE Pipe within the existing pipeline footprint. The existing concrete pipeline is nearing the end of its life cycle.**

**All proposed project work for both elements will be completed outside the OHW mark.**

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.

**Bingham Creek Hatchery is located in Mason County, section 11, township. 19.0N, and range 06.0 W WM. Hatchery address is W. 3914 Fish Hatchery Rd. Elma, WA. 98514. The Proposed Project site is reached by turning east off of the Matlock-Brady Road (approximately 4.5 miles south of Matlock) onto Fish Hatchery Road and proceeding approximately 3.8 miles to the end of the road to the hatchery.**

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B. ENVIRONMENTAL ELEMENTS

1. **Earth**

a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other . . . . .

**Project site is generally flat with moderate to steep slopes adjacent the existing work sites.**

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

**Steepest slope 65 percent, but not in the area planned for construction activities to complete the proposed project.**

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c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

**Alluvial, Soils in the vicinity are classified as Juno loam.**

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

**Not in the immediate vicinity of the proposed pond replacement construction area, nor no known areas of unstable soil in the proposed pipeline replacement work area.**

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

**The proposed project for demolition and replacement of the rearing ponds will end up being a net cut due to the dimension differential between the old rearing ponds versus the new rearing ponds. The project intent is to maintain existing elevations and grades resulting in minimal finish grading requirements. Net total cut and material removal should approximate 120 cubic yards. For the pipeline replacement element of the proposed project; replacement of approximately 3,050 feet of 24 inch pipeline, approximately 1625 cubic yards of excavation/fill will be removed and then used to backfill new pipeline trench. The proposed project does not propose any changes to existing grade.**

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

**Yes for the proposed pipeline replacement element of this project and no for the rearing ponds demolition and new pond construction. Erosion could occur as the result of digging a new pipeline ditch. Both elements of the proposed project will be completed using existing grades and maintain existing elevations.**

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

**There will be no increase in impervious surfaces at the construction sites.**

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

**The Department of Ecology's 2005 manual Volume 2 TESC approach will be applied to the proposed project; Based on preliminary discussions with Mason County, the proposed project will comply with Requirements #1 through #5 of the DOE 2005 storm water manual. A Storm water pollution prevention plan will be prepared for this project.**

## 2. Air

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

**During construction, air emissions will include gaseous and potential low levels of dust. There will be no new air emissions from the completed project. When the project is completed, it will reduce gaseous emissions as future pond cleanings will be conducted with an electrical pump system; current methodology of pond cleaning is using gas driven trash pumps.**

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

**There are no off-site sources of emissions affecting the proposal.**

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

**Standard emission control converters and mufflers would be used by construction vehicles.**

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## 3. Water

a. Surface:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

**Bingham Creek Hatchery is located directly adjacent to Bingham Creek which flows into East Fork Satsop 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, both project construction elements of rearing pond demolition/replacement and a small portion pipeline replacement will occur adjacent Bingham Creek.**

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.

**None.**

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

**No new surface water withdrawals are required with the proposed project. The proposed project replaces the existing hatchery water supply from the Bingham Creek water intake.**

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

**Yes, the concrete rearing pond demolition and pond replacement element of the proposed project.**

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.

**None.**

b. Ground:

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

**None. However as part of the effort at Bingham Creek Hatchery, WDFW is working with DOE to officially decommission an existing monitoring well that has not been utilized for an extended period of time. Decommissioning of this well will not result in adding or removing additional ground water.**

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.

**The proposed project results in no new uses at this site. The Bingham Creek Hatchery will continue to provide public restroom facilities and provide three residences for on station housing for emergency fish rearing responses. These services will not be impacted by this project.**

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.

**Proposed project will not change existing storm water runoff patterns. Project maintains existing elevations and results in no additional impervious surfaces as the result of construction.**

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

**None.**

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

**The standard DOE 2005 manual Volume 2 TESC approach will be applied to the project. A storm water pollution prevention plan will be prepared for this project.**

4. **Plants**

a. Check or circle 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

\_\_\_\_\_ 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 vegetation removal is associated with existing pond demolition and new pond construction. For the buried pipeline replacement removal of local grasses, shrubs and potentially small alder and fir tree removal is anticipated with this project. However pipeline replacement impacts will be minimized by placing new pipeline next to existing pipeline.**

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

**None.**

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

**Reseeding with grass seed of all soils disturbed with the pipeline replacement element of the proposed project.**

5. **Animals**

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

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

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

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

- b. List any threatened or endangered species known to be on or near the site.  
**None.**

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

**Yes, Site is located within the Pacific Flyway but few observations of migrating birds have been observed at the project site.**

**Coho, chum and Chinook salmon as well as Steelhead and cutthroat trout are passed above the hatchery facilities to promote natural spawning.**

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

**A primary element of the project is to replace shallow and leaky ponds that will result in more secure rearing of salmon and steelhead from the Bingham Creek Hatchery. The new rearing ponds will have higher volumes of water resulting in less density for fish reared at this site. Less density associated with fish rearing conditions is expected to improve the condition of fish reared. Bingham Creek Hatchery currently is programmed to rear approximately one million Coho, 450,000 chum, up to 600,000 fall Chinook and 55,000 steelhead. Replacing the pipeline will provide more certainty in providing a predictable water supply to the hatchery and fish rearing program into the future. All proposed construction work will occur outside the waterways with no in stream work associated with the proposed project. All work completed with this project will be done within the footprint of existing structures to minimize loss of habitat.**

## 6. Energy and natural resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

**No new energy supplies will be needed in association with this proposal. Bingham Creek Hatchery currently is currently supplied electrical service, Mason County PUD 3, propane for residence heating, oil for heating and wood stoves.**

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

**The project would have no effect on the potential use of solar energy by adjacent properties.**

- 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

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

**The only environmental health hazards that could occur as a result of the project are those associated with the fueling and maintenance of construction equipment. The impacts may include spill of and exposure to fuels, hydraulic fluids and lubricants.**

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

**No special emergency services will be required for this project proposal.**

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

**Proposed measures to reduce and control environmental health hazards include the use of best management practices associated with construction equipment fueling and maintenance. Specifically, fueling and maintenance will be conducted in a manner that will minimize the potential for spill and contamination. Spill containment and cleanup kits will be maintained onsite, and spills of fuel, hydraulic fluid, lubricants, or other hazardous materials will be cleaned up immediately with proper disposal.**

**b. Noise**

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

**There are no types of noise in the project area which will affect this project.**

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.

**In the short term, there will be an increase in noise associated with increased traffic and construction equipment to complete the proposed project. For long term, WDFW does not anticipate increased traffic to the site.**

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

**Project construction will occur only during daylight hours and thus will not involve night-time noise disturbances.**

**8. Land and shoreline use**

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

**The proposed project site is currently used as a salmon and steelhead hatchery. The hatchery has been historically used to hold adult fish, egg incubation, fry and fingerling rearing as well as a fish release site.**

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

**The project site has not been used for agriculture.**

c. Describe any structures on the site.

Structures

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

**Yes, five 20X80 shallow concrete rearing ponds.**

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

**Land use code is 84-Resource-Fishing.**

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

**Rural Conservancy**

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

**Rural Conservancy.**

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

**No.**

- i. Approximately how many people would reside or work in the completed project?  
**Bingham Creek Hatchery will continue to be staffed with 3 full time employees.**
  
- j. Approximately how many people would the completed project displace?  
**No people would be displaced as a result of the completed project.**
  
- k. Proposed measures to avoid or reduce displacement impacts, if any:  
**There are no displacement impacts as a result of this project.**

1. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:  
**Land use of the project site will not change as a result of the Bingham Creek Hatchery Improvement project.**

9. **Housing**

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.  
**No new housing units will be provided as a result of the project. Current site provides three (3) residences.**
- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.  
**No housing units will be eliminated as a result of the project.**
- c. Proposed measures to reduce or control housing impacts, if any:  
**There are no housing impacts as a result of the project.**

10. **Aesthetics**

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?  
**Proposed structure associated with the completed project will be the placement of bird netting support structures approximately 13 feet high. These structures provide support to bird netting to eliminate fish losses associated with bird predation.**
- b. What views in the immediate vicinity would be altered or obstructed?  
**The completed project will not obstruct or alter any existing views in the vicinity.**
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**No impacts are anticipated, therefore no measures are proposed.**

11. **Light and glare**

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?  
**The proposed project will not alter or change existing site illumination.**
- b. Could light or glare from the finished project be a safety hazard or interfere with views?  
**Light and glare from the completed project will not present a safety hazard or interfere with views.**
- c. What existing off-site sources of light or glare may affect your proposal?  
**There are no existing off-site sources of light or glare that would affect the proposed project.**
- d. Proposed measures to reduce or control light and glare impacts, if any:  
**The project proposal will not have any light and/or glare impacts; therefore no new mitigated measures are proposed.**

**12. Recreation**

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

**Bingham Creek Hatchery provides recreational fishing access to both Bingham Creek and East Fork Satsop River. Additionally, WDFW has initiated an ADA fishing access program on site. Hatchery tours for local citizens, tourists and school coordinated tours occur routinely at WDFW's Bingham Creek Hatchery.**

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

**The proposed project would not displace any recreational uses.**

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

**The proposed project when completed should solidify WDFW's future fish rearing opportunities at Bingham Creek Hatchery. All fish reared at this facility are planned for release into public waters. Bingham Creek Hatchery fish are all scheduled to be fin clipped and contribute to non-tribal commercial net fisheries and recreational mark selective fisheries and to traditional treaty tribal fisheries within state waters.**

**13. Historic and cultural preservation**

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

**There are no known places or objects on or next to the site that are listed on, or proposed for, national, state, or local preservation registers.**

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

**There are no known landmarks or evidence of historical, archaeological, or cultural importance or near the site.**

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

**The proposal is not expected to have any cultural impacts on the project site or nearby properties.**

**14. Transportation**

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

**The proposed project site is reached by turning east off the Matlock-Brady Road (approximately 4.5 miles south of the town of Matlock) onto Fish Hatchery Road and proceeding approximately 3.8 miles to the end of the road and onto the hatchery site.**

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

**This site is not currently served by an established transit stop. However Mason County has served the site through its Dial a Ride Program.**

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

**The current project site provides approximately twenty five (25) parking spaces. Parking at the site is informal and it is anticipated no parking opportunities will be loss as a result of the proposed project.**

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

**The proposal does not require any new roads or streets, or improvements to existing roads or streets.**

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

**The project will not use or occur in the immediate vicinity of water, air or rail transportation systems.**

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

**The proposed project will not result in increased vehicular trips per day. During the months of October through January peak volumes of vehicular traffic occur on site, most of the traffic is associated with recreational fishing access. Peak volumes are projected to be up to 25 trips per day.**

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

**The current hatchery site accommodates projected parking and traffic needs associated with recreational fishing patterns.**

#### 15. Public services

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

**The project will not result in an increased need for public services.**

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

**There are no proposed measures. see 15.a above.**

#### 16. Utilities

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

**Electricity, propane, telephone, refuse service, septic, and satellite, the hatchery and provided residences are supplied with on-site domestic water (well).**

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

**The existing utilities will be maintained during construction and for future operations at Bingham Creek Hatchery. No additional utility providers will result from the proposed project.**

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: *Larry W. Peck* .....

Date Submitted: *October 10, 2012* .....

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

(do not 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?

Proposed measures to avoid or reduce such increases are:

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

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

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

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

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?

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

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?

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

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

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

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