

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of proposed project, if applicable:

Washington Department of Fish and Wildlife Canyon Creek Fish Ladder

2. Name of applicant:

Washington Department of Fish and Wildlife (WDFW)

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

Applicant:

Washington Department of Fish and Wildlife

600 Capitol Way North

Olympia, WA 98501-1091

360-902-8372

Mr. Tim Ward, Construction Project Coordinator

Authorized Agent:

Harbor Consulting Engineers, Inc.

3006 Fuhrman Avenue East

Seattle, WA 98102-3810

206-709-2397

Mr. John R. Hutchins, P.E., S.E., Principal

4. Date checklist prepared:

October 26, 2012

5. Agency requesting checklist:

Washington Department of Fish and Wildlife

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

The anticipated start date is November, 2012. Construction is expected to take approximately six months. In-water construction activity will be limited to periods determined by local, state and federal regulatory agencies. Timing limitations placed on construction activity for the protection of birds and/or animals will be strictly adhered to.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

There are no current plans for additions, expansion or further activity related to or connected with this proposal.

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

A draft Biological Assessment (BA), dated August, 2012, has been prepared for the Canyon Creek fish ladder project. The BA is currently under review by WDFW.

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 no known applications pending for government approvals of other proposals directly affecting this project site.

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

- U.S. Army Corps of Engineers: Section 404 Permit;
- Washington Department of Fish and Wildlife: Hydraulic Project Approval;
- Washington State Department of Ecology: Section 401 Water Quality Certification, Short-Term Modification of Water Quality Standards;
- Clallam County: Shoreline Substantial Development Permit or exemption and Building 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 proposed work consists of fish passage improvements in Canyon Creek at the existing Canyon Creek diversion dam, including the construction of a cast-in-place concrete vertical-slot fish ladder within the left bank of the creek and under the existing Clallam County road bridge. The existing dam and proposed improvements are located approximately 530 feet upstream from Canyon Creek's confluence with the Dungeness River on a portion of the 95-acre WDFW Dungeness Fish Hatchery property. The attached drawings from the JARPA application for the proposed project include a Location Map and Vicinity Map, as well as drawings illustrating details of project design.

Incorporated in the fish ladder design are a new water intake and approximately 120 feet of relocated pipeline. These will replace the existing intake and a portion of the existing pipeline, which currently provide a source of water to the hatchery. During construction activity, Canyon Creek water flow will be diverted around the construction area. It is anticipated that the contractor will construct a flume from the top of the dam for approximately 50 feet, followed downstream by approximately 60 to 70 feet of sand bag revetment to carry the stream past the project site. The water by-pass and revetment will prevent sedimentation of the creek. Water pumped from excavations will be placed in a settling pond before being released to the creek.

To allow new construction to take place, portions of the existing trash rack, flume and water intake at the northerly end of the dam will be removed. The removed items and any debris resulting from

demolition will be collected and disposed of at an approved upland location, out of the creek flood zone. Approximately 870 cy of rock and soil will be excavated and removed from the left bank to allow construction of the proposed fish ladder. Rock excavation will be accomplished by closely controlled excavator-mounted ripping equipment and/or pneumatic point equipment. Disposal of excavated rock will be upland on WDFW property above the creek flood zone.

Approximately 260 cy of cast-in-place concrete and 170 cy of controlled density fill (CDF) will be required to construct the fish ladder. The concrete and controlled density fill will be supplied by a local ready-mix facility. The dam's downstream concrete apron will be repaired using approximately 5 cy of new concrete. Voids under the existing apron will be filled with approximately 6 cy of concrete grout. Weir pools will be formed downstream of the dam by the installation of three steel sheet pile walls across the stream bed. The sheet pile will be topped by concrete caps, each with a 10" deep trapezoidal notch to enhance fish passage. Installation of these downstream weirs will form pools to enable fish to access the fishway entrance. The farthest upstream weir will form a juvenile plunge pool and serve as a cutoff wall to prevent further stream bed scour under the dam and apron.

The existing access road to the dam site will be re-graded and improved. Construction will be accomplished using tracked and/or rubber tired equipment, which will be operated outside the margins of the stream bed, staged above ordinary high water (OHW).

- 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.**

Street address: WDFW Dungeness Fish Hatchery
1261 Fish Hatchery Road, Sequim, WA 98382
Latitude/Longitude: 48.024444 North Latitude, 123.136944 West Longitude
Section: In the Northwest quarter of Section 12 - Township 29 North - Range 4 West, W.M.

Abbreviated property description: The NW ¼ of the NW ¼ ; a portion of the NE ¼ of the NW ¼ ; a portion of the SE ¼ of the NW ¼ ; a portion of the SW ¼ of the NW ¼ ; and a portion of the NE ¼ of the SW ¼ all in Section 12 – Township 29 North – Range 4 West, W.M.; except Clallam County Road R-O-W and Agnew Irrigation District R-O-W.

See the attached JARPA drawings.

B. ENVIRONMENTAL ELEMENTS

1. Earth

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

The Dungeness Fish Hatchery property is flat near the hatchery facilities and hilly near the project site, which is located approximately 1,500 feet southeast of the hatchery facilities. The existing concrete and timber diversion dam and the site of the proposed fish ladder are located on Canyon

Creek in a deeply incised rock gorge under a Clallam County road bridge on Fish Hatchery Road.

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

The existing rock slope inclination on the left bank of Canyon Creek in way of the proposed fish ladder ranges from approximately 1H:2V to 1H:3V (200 to 300%). Nearby project site slopes vary from 2.8% to 64.3%.

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.

The fish ladder will be located in a narrow, incised channel in bedrock of the Crescent Formation, which includes tuffaceous basalt and basaltic sandstone. Within the active floodplain, the footprint of the fish ladder may be underlain by 2 to 3 feet of sand and gravel fill overlying another 2 to 3 feet of recent alluvium, consisting of sand and gravel overlying bedrock. Such soils as Louella gravelly loam, Carlsborg sandy loam and Yearly gravelly loam are found outside of the project construction area, in the adjacent fish hatchery area.

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

There are no surface indications or known history of unstable soils in the immediate vicinity of the project.

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

The type, quantity and source of materials that will be used to construct the proposed fish ladder, including controlled density fill, are discussed in Section B.3.a.3 below. Minor grading and surface repair is proposed to improve the upland access road.

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

With the inclusion of best management practices proposed to be observed during construction (see Section B.3.d.), only insignificant erosion is expected as a result of project activities.

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

Currently, approximately 20,000 sf (0.46 acres) of the 95 acre hatchery property consists of impervious surfaces, or about 0.5% of the property. The proposed concrete fish ladder would increase impervious surface by approximately 1,735 sf, resulting in an insignificant increase in the percent of the property covered by impervious surfaces.

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

Best management practices for control of potential sources of erosion will be implemented during all project activities, including stream diversion, partial dam removal, rock and soil excavation, forming and pouring the cast-in-place concrete fish ladder, installing and capping the weir pool sheet piles and minor upland improvements to the dam access road (see list of Best Management Practices in Section B.3.d.).

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.**

The primary air emissions resulting from project construction will be exhaust emissions from vehicles and equipment traveling on the unpaved access road, rock and soil excavation, and minor regrading and surface repair of the access road. No air emissions would result from the completed project.

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

No off-site sources of air emissions or odor are present that could affect the proposal.

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

To reduce exhaust emissions, all vehicles and motor-powered equipment used in construction will be required to have properly operating air pollution control equipment, and to meet Washington State vehicle emission standards.

To minimize dust during construction, the pneumatic point equipment used for rock excavation will be equipped with a dust suppression device. The unpaved access road and active construction areas will be sprayed with water at the frequency necessary to control dust, and any temporary stockpiles of excavated rock and soil would be sprayed as needed or covered. With these dust control measures, levels of inhalable particulate matter during construction would be expected to be well below applicable standards.

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.**

The proposed fish ladder will be constructed within the left bank of Canyon Creek, a year-round stream that flows into the Dungeness River approximately 530 feet downstream from the proposed fish ladder location. Canyon Creek is classified by the Washington State Department of Natural Resources as a Type "F" stream. Type "F" streams are those known to be used by fish or that meet the physical criteria to be potentially used by fish. Canyon Creek is defined as a Type 1 stream in the Clallam County Critical Areas Code (CCC 27.12.900). Type 1 streams are those

inventoried as “shorelines of the state” and regulated under the Clallam County Shoreline Master Program.

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.

All of the proposed activities discussed in Section A.11 of this Checklist would take place over, in or adjacent to the waters of Canyon Creek (see attached JARPA drawings).

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.

Approximately 870 cy of rock and soil will be excavated and removed from the left bank of the creek, as required to accommodate the proposed fish ladder. Approximately 260 cy of cast-in-place concrete and 170 cy of controlled density fill (CDF) will be required to construct the ladder. Approximately 5 cy of concrete and 6 cy of grout will be required to make minor repairs to the existing apron on the downstream side of the dam. This work will be done in the dry, after diversion of the steam flow around the construction area. The contractor will be required to furnish a water diversion plan for approval by the Owner’s representative. The proposed fish ladder will occupy approximately 1,735 sf of the project site.. Controlled density fill, concrete and grout will be obtained from a local ready-mix facility. Excavated rock and soil will be disposed of upland on the hatchery property out of the flood zone.

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

As discussed in Section A.11 of this checklist, Canyon Creek flow will be diverted around the site of the proposed fish ladder during construction so that work can take place in the dry. Incorporated in the fish ladder design is a new water intake that meets current fish passage criteria, and approximately 120 feet of relocated pipeline to replace the existing intake and a portion of the existing pipeline. The pipeline relocation involves approximately 30 cy of excavation and backfill. The existing intake and pipeline provide an auxiliary water supply for the Dungeness Fish Hatchery. The primary source of hatchery water is the Dungeness River. However, water from the Dungeness River can at times have very high glacial flour (turbidity), and the water temperature can be inappropriate for optimum fish growth. During these times, Canyon Creek is used as a source of water for the hatchery. The proposed intake and pipeline improvements will allow this use to continue.

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

The calculated 100-year flood level encompasses the proposed fish ladder and other in-stream components of the proposed project. The project will not raise the elevation or extent of the floodplain.

6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

The proposal does not involve discharges of any waste materials to surface waters. The potential for erosion and for releases of soil, sediment, fuel, oil and construction debris into surface waters will be minimized by implementation of the Best Management Practices listed in Section B.3.d.

When water is diverted back into the mainstream of Canyon Creek, after construction of the fish ladder, a pulse of sediment is expected to be released to the creek. This would temporarily increase turbidity downstream of the project area, potentially depositing fine sediments into larger-grained spawning substrate downstream. However, the amount of sediment is not expected to be extensive, due to the implementation of the Best Management Practices, and the elevated turbidity levels would be highly localized and short in duration.

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.

The proposed project does not include withdrawals of ground water or discharge of water to 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 does not include any discharge of waste material to ground water.

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.

The source of runoff is stormwater. Stormwater will fall on existing natural and new man-made surfaces and will drain naturally to Canyon Creek. As discussed in Section B.1.g above, there would be no significant increase in impervious surface coverage as a result of this project. Existing rock surfaces would be replaced by the fish ladder concrete surfaces. Therefore, the project would not significantly increase stormwater runoff.

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

Best Management Practices will minimize the potential for erosion and for releases of waste materials to surface or ground waters. A small amount of debris will be generated by the removal of the existing trash rack, flume and water intake at the north end of the dam. Any such debris will be confined and collected as it appears.

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

The Best Management Practices listed below will be implemented to avoid or minimize surface, ground and runoff water impacts. By protecting water quality, these measures will also avoid or minimize impacts on fish and other aquatic resources.

- To avoid adverse impacts on migratory fish, all in-water activities will be limited to periods determined by local, state and federal agencies.
- Conditions of all permits issued by regulatory agencies will be strictly adhered to.
- Work is planned to be conducted during a period of low flow in the creek.
- A Spill Prevention and Contingency Plan and spill containment kit will be kept on site at all times. Pollution prevention measures in the Plan will address planned fueling methods, storage and use of potentially hazardous materials, and storage and use of equipment.
- All motorized equipment used in project construction and operation will be inspected and repaired or replaced as needed, to ensure that it does not leak fuel or oil.
- Equipment to be used near the water will be cleaned prior to use.
- Refueling will not occur within the creek channel or on the creek banks.
- Drive trains of equipment will not be operated in the water.
- Biodegradable hydraulic fluids will be used in all construction equipment.
- During partial removal or demolition of existing facilities and construction of new facilities, the Canyon Creek stream flow will be diverted around these activities, so that they can be accomplished in the dry. This diversion will prevent sedimentation caused by construction activity from entering the stream flow. All accumulated debris will be collected and disposed of at an approved upland disposal site.
- Wet concrete will be prevented from entering the water. Forms will be constructed to prevent leaching of wet concrete, and will remain in place until the concrete is cured.
- Water quality will be monitored during construction activities that have the potential to create elevated turbidity levels.
- Temporary sediment traps will be used to minimize turbidity wherever possible.
- At least one biologist will be present on the site at all times during construction. The Dungeness Hatchery has biologists on its staff.
- If at any time, as a result of project activities, fish are observed in distress, a fish kill occurs or water quality issues develop, including equipment leaks or spills, work will stop immediately and notification will be made to the Washington State Department of Ecology and the Washington Department of Fish and Wildlife. Corrective measures will be taken as soon as the cause of the problem has been identified.
- In the unlikely event that construction activities result in the discovery of archaeological deposits or artifacts, work will be halted and the Department of Archaeology and Historic Preservation will be notified.

4. Plants

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

X ___ deciduous tree: alder, maple, aspen, other

X ___ evergreen tree: fir, cedar, pine, other

X ___ 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**

Vegetation in the project area is sparse, because the dam and intake are located under the Clallam County road bridge in an area that was created by removing rock from the hillside. Because the substrate under the bridge is hard rock, few plants are able to survive. The vegetation that does occur in the area near the project site consists of shrubs and some small alder, big leaf maple, aspen, Douglas fir and western red cedar.

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

Few, if any, shrubs and small trees will be removed or altered by the proposed construction activities. If any are removed, the area will be revegetated with native materials.

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

No threatened or endangered plant species are known to be on or near the site.

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

No landscaping or enhancement of vegetation is proposed for this 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:**

Birds observed on or near the site include eagles, hawks, herons, grouse, songbirds; northern spotted owl and marbled murrelet nesting areas and critical habitat are known to be near the project site;

Mammals include deer, bear, elk, coyotes, cougars, raccoons;

Fish include salmon, steelhead, bull trout.

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

The following species listed as “threatened” under the Endangered Species Act may be present in the vicinity of the proposed project: Puget Sound steelhead, Coastal/Puget Sound bull trout, Puget Sound Chinook, Hood Canal summer-run chum salmon, northern spotted owl and marbled murrelet. The project area is included in designated critical habitat for Coastal/Puget Sound bull trout, Puget Sound Chinook salmon and Hood Canal summer-run chum salmon.

No northern spotted owl designated habitat exists at the project site, but is present approximately two miles to the south. These owls are not expected to be present in the project area, located under a highway bridge where human activity is common.

Marbled murrelet critical habitat is present approximately 1,200 feet to the east of the project site.

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

Fish migration in Canyon Creek through the project site is presently impossible due to the presence of the diversion dam. Construction of the proposed fish ladder will enable fish to access approximately two miles of potential habitat upstream of the dam.

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

Best Management Practices will be implemented to avoid or minimize surface, ground and runoff water impacts. By protecting water quality, these measures will also preserve fish, including ESA-listed species. In addition, construction of the proposed fish ladder will enable fish to access approximately two miles of potential upstream habitat that is currently inaccessible. By providing a new water intake and pipeline at the fish ladder structure, the proposed project will allow the hatchery to maintain a screened auxiliary water supply to provide clean water with appropriate temperatures for fish aquaculture.

To reduce the risk of disturbing nesting murrelets, project construction will utilize limited operating periods (LOPs) that will only allow work to occur from two hours after sunrise to two hours before sunset during the nesting season, April 1 to September 23. Since the construction period is expected to be of short duration, the cumulative effect of noise disturbance is expected to be minor. Due to the unique construction site, with steep channel slopes on two sides, a diversion dam upstream and a county road bridge overhead, the vast majority of noise associated with rock removal and other project activity will likely be contained to the immediate project site, greatly reducing the potential to disturb nesting or feeding northern spotted owls, marbled murrelets and other bird species.

The BA for the proposed project notes that WDFW has determined that the project *will affect, but not adversely affect*, threatened species. WDFW has made the same determination with regard to project effects on the critical habitat of these species.

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.

The new project will not require any new sources of energy.

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

The proposed project will have no adverse effect on potential use of solar energy at adjacent sites.

- 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:**

Fuel-efficient electric and motorized equipment will be used to the extent possible throughout the proposed project.

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.**

No significant environmental health hazards are anticipated as a result of this proposal.

1) Describe special emergency services that might be required.

No special emergency services are expected to be required from the completed project.

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

None.

b. Noise

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

No noise other than falling water, or the rare passing of a vehicle on the county road bridge above will affect the proposed 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.**

Construction vehicles and equipment will create short-term noise. The maximum noise levels would probably occur during excavation of rock by controlled ripping or by the use of pneumatic equipment. According to the Federal Highway Administration's *Construction Noise Handbook*, pneumatic devices can have maximum noise levels of 85 dBA, measured 50 feet from the source. All construction activities will take place during specified daytime working hours. See Section B.5.d.

No long-term noise, other than falling water, will be produced by operation of the completed fish ladder.

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

As noted above, all construction activities would take place during specified daytime working hours. Construction vehicles and equipment will be required to have properly sized mufflers that are maintained in good working order. Idling of vehicles and equipment will be kept to a

minimum. The contractor will be required to observe and control noise within work windows required by regulatory agencies.

8. Land and shoreline use

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

The project area is currently occupied by a concrete and timber diversion dam which provides an auxiliary source of water for the Dungeness Fish Hatchery. The Agnew Irrigation District pipeline/flume passes through the project site, as does the Clallam County Fish Hatchery Road right-of-way. Adjacent properties are largely commercial forest.

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

The project site has no known history of agricultural use.

c. Describe any structures on the site.

Structures on the immediate project site consist of the diversion dam described above in Section B.8.a. The Dungeness Fish Hatchery, located approximately 1,500 feet to the northwest of the project site, includes a hatchery building, storage building and shed, two residences, a generator and screen building, pump house and fish rearing and holding ponds.

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

Portions of the existing trash rack, flume and water intake at the north end of the dam will be removed, which will involve some minor demolition.

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

Current zoning classification is CF, Commercial Forest.

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

Commercial Forest.

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

The shoreline designation of the site under the Clallam County Shoreline Master Program (SMP) currently in effect (the 1992 revision) is Rural. Under the draft SMP update, the shoreline designation is Freshwater Resource.

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

Clallam County's Critical Areas Code classifies Canyon Creek as an Aquatic Habitat Conservation Area.

i. Approximately how many people would reside or work in the completed project?

Three people generally work at the Dungeness Fish Hatchery. Three or four people are occasionally added as temporary help. No change is contemplated as a result of the proposed project. No people would reside in the completed project. Only a small number of designated staff will occasionally work in the completed fish ladder area.

j. Approximately how many people would the completed project displace?

The completed project would not displace any residents or workers.

k. Proposed measures to avoid or reduce displacement impacts, if any:

There will be no displacement impacts.

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

The project is consistent with the permitted uses and activities identified in the Clallam County Shoreline Master Program.

9. Housing

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

No housing units would be provided by the proposed project.

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

No housing units would be eliminated due to the proposed project.

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

There will be no housing impacts due to the proposed 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?

The highest point of the fish ladder structure will be 15.9 feet above ordinary high water downstream of the dam. The roadbed of the existing county road bridge is approximately 37 feet above ordinary high water at the centerline of the creek. The principal building material of the fish ladder will be poured-in-place concrete with a smooth surface.

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

Views of the project site from the immediate vicinity would be altered by the addition of the fish ladder on the left bank of the stream and the concrete-capped sheet pile weirs crossing the stream.

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

No adverse aesthetic impacts are expected, so no measures to reduce or control such impacts 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?

No changes to existing lighting conditions are proposed.

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

No safety hazards or view obstructions from light or glare are expected.

c. What existing off-site sources of light or glare may affect your proposal?

No off-site sources of light or glare are expected to affect the proposal.

d. Proposed measures to reduce or control light and glare impacts, if any:

No light or glare impacts are expected from the project.

12. Recreation

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

Canyon Creek may be used for fishing, boating and wildlife viewing.

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

The proposed project will not alter or disrupt public recreational uses in the project area.

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 will not adversely affect any recreational uses, so no measures to reduce or control impacts on recreation are proposed.

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.

No listed historic or cultural resource sites are known to exist at or adjacent to the project site.

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

No landmarks or historic, archaeological, scientific or cultural features of importance are known to be at or near the project site, or could potentially be affected by project actions.

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

No such measures are required or proposed.

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.

Access to Fish Hatchery Road, a Clallam County road, is available through the Fish Hatchery grounds. See the attached JARPA drawings.

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

The project site is not currently served by public transit. The nearest transit stop is approximately 3 ¾ miles to the north in the City of Sequim.

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

No parking spaces would be added or eliminated 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 proposed project will not require any new roads or streets, or improvements to existing public roads or streets. Minimal improvements will be made to the interior hatchery access road.

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, rail or air transportation.

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

No vehicular trips would be generated by the completed project. Following completion of the proposed project, site operations will remain essentially the same as they are today.

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

No adverse impacts on transportation are expected, so no measures to reduce or control such impacts are proposed.

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.

No increased need for public services is anticipated as a result of the proposed project.

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

No impacts on public services are expected, so no measures to reduce or control such impacts are proposed.

16. Utilities

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

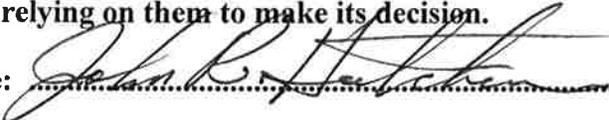
Electric power is available at the project site.

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 proposed project does not require any utility improvements.

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: 

John R. Hutchins, P.E., S.E., Principal, Harbor Consulting Engineers, Inc., Authorized Agent
3006 Fuhrman Avenue East, Seattle, WA 98102, 206-709-2397,
jrhutchins@harborengineers.com

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