

Appendix E

SEPA Checklist

Lewis River Hatchery Upper Intake Maintenance

Cowlitz County, Washington

WAC 197-11-960 Environmental checklist.

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

1. Name of proposed project, if applicable:
Lewis River Hatchery Upper Intake Maintenance
2. Name of applicant:
PacifiCorp Energy (PacifiCorp)
3. Address and phone number of applicant and contact person:
Briana Weatherly
PacifiCorp – Hydro Resources
825 NE Multnomah, Suite 1500
Portland Oregon 97232
4. Date checklist prepared:
May 2012
5. Agency requesting checklist:
Washington Department of Fish and Wildlife (WDFW)
6. Proposed timing or schedule (including phasing, if applicable):
PacifiCorp proposes to complete the project between August 1 and August 15, 2012. This construction window corresponds to the WDFW preferred In-Water Work Window for the Lewis River.
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 plans for future additions, expansions or further activity related to the proposed Lewis River Hatchery Upper Intake Maintenance (i.e. the project).
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
The following documents have been prepared for the Lewis River Hydroelectric Projects or the Merwin Hydroelectric Project in particular:
 - Merwin Hydroelectric Project FERC License, Project No. 935, June 26, 2008;
 - Biological Evaluation of the United States Fish and Wildlife Service (USFWS) Listed, Proposed and Candidate Species as Related to PacifiCorp and Cowlitz PUD's Lewis River Hydroelectric Projects, January 15, 2005;
 - Final Environmental Impact Statement for the Lewis River Projects, March 2006;
 - National Marine Fisheries Service Biological Opinion for the Operation of PacifiCorp and Cowlitz PUD's Lewis River Hydroelectric Projects, August 27, 2007;
 - USFWS Biological Opinion for the FERC Relicensing of the Lewis River Hydroelectric Projects, September 15, 2006;
 - Lewis River Historic Properties Management Plan;
 - Washington Department of Ecology, Merwin Hydroelectric Project (FERC No. 935) 401 Certification/Order No. 3678, October 9, 2006.

- Washington Department of Fish and Wildlife Hydraulic Project Approval for WDFW Finfish Hatchery Maintenance and Operations (Control Number 113942-2).

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 pending governmental approvals of other proposals directly affecting the property.

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

The following permits or authorizations will likely be required to construct the proposed project.

State and Federal Approvals and Permits:

- Hydraulic Project Approval (HPA) –WDFW
- State Environmental Policy Act (SEPA) Checklist Determination
- In-Water Work Protection Plan Approval – Washington Department of Ecology (DOE)

The proposed maintenance is exempt from Section 404 and Section 10 permits per an email from ACOE regulatory specialist, Mr. Peter Olmstead dated March 12, 2012 and will likely be exempt from County permitting requirements per an email from Cowlitz County Planner Ron Melin dated March 22, 2012 (both emails available upon request)

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 upper intake that serves as one of the two intakes for the Lewis River Hatchery is in need of repair and is currently out of compliance with National Marine Fisheries Service (NMFS) pump screen criteria. The upper intake is located along the north bank of the Lewis River at RM 16 within Cowlitz County, Washington. The upper intake supplies water to the hatchery buildings and ponds 13, 14, and 15 (see photos in Appendix B). This intake consists of a "river torpedo" connected to a concrete wet well with two 36-inch diameter buried intake pipes. In 1989, the wet well was covered by a 63-ft long, static screen panel placed in the river at a 39-degree angle (to horizontal). In 2009, the upstream intake screen panel suffered a structural collapse due to debris racking during a flood event. The screen buckled inward and collapsed, leaving several approximately 3 to 12-inch wide gaps between the screen panels and concrete support walls, resulting in noncompliance with NMFS screen criteria.

To bring the upstream intake screen panel into compliance with NMFS criteria, the screen panel and wet well support wall will be repaired using divers and small hand tools. Divers will remove the existing fish screen and place it in an upland area where it will be cleaned and straightened to its original design. Divers will bolt a new, pre-fabricated steel support frame along the top of the existing concrete wet well wall to provide a flat and level surface for the screen panel. The straightened screen panel will then be reinstalled and welded to the new steel support frame (see plan sheets in Appendix C). It is anticipated that in-water work will be completed within a 24-hour period. In total, less than ½ cubic yard of new fill

material (i.e. the steel support frame and bolts) will be added to the existing facility. The remainder of the project will involve repairs to an existing facility that will not require the additional placement of fill within the Lewis River.

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.

The Lewis River Hatchery is located at 4404 Old Lewis River Road, Woodland, Washington 98674 in Cowlitz County, Washington (Figure 1, Appendix A). The upper intake is located in Township 5 North, 2 East, Section 7. The project is located along the Lewis River approximately 2 miles southwest of Ariel, Washington. The project can be accessed by following Lewis River Road (Highway 503) approximately 8 miles east out of Woodland, Washington. The County Tax Parcel Number is: EG0701001.

B. ENVIRONMENTAL ELEMENTS

1. Earth

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

Near the upper intake, the upper terrace adjacent to the river is relatively flat and is almost entirely paved.

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

The steepest slope on the site is immediately along the Lewis River on the western and eastern sides of the upper intake. Slopes adjacent to the river at this location are approximately 20-30%.

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.

Soil maps from the Natural Resource Conservation Service (NRCS) indicate that the project site is comprised of Greenwater fine sandy loam, 8 to 45 percent slopes (Mapping Unit 66), Olequa silt loam, 20 to 30 percent slopes (Mapping Unit 144), and Water (Mapping Unit 263). However, it should be noted that the entire bank of the Lewis River adjacent to the upper intake is comprised of rocky fill material and riprap and does not represent a natural soil profile.

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

At the upper intake, surfaces are comprised almost entirely of riprap, fill material and asphalt pavement that appear to be stable.

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

The purpose of the proposed project is to repair the damaged upper intake facility for the Lewis River Hatchery. All repairs will occur within or atop an existing facility and there will be no ground disturbance or

grading associated with the proposed project. Approximately ½ cubic yard of steel and other structural components will be bolted (below the OHWM) to the existing facility to replace damaged components.

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

All of the construction related activity is occurring atop existing facilities; staging and other upland activities will occur atop paved or graveled areas. Therefore, there is little risk of erosion.

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

No new permanent structures or facilities are proposed; the project purpose is to repair existing structures. As such, 0% of the site will be covered with new impervious surfaces post-project.

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

Perimeter controls (e.g. straw wattles, absorbent booms, rubber bumpers) will be installed around the proposed staging and work areas to control potential spills from entering the Lewis River. An In Water Work Protection Plan (IWWPP) has been prepared for the project and is available in Appendix B of this application package. In addition, per WAC 173-201A-210(1)(e)(i)(C), and PacifiCorp's Merwin 401 Water Quality Certification, (Condition 4.5.4(b)(iii)), turbidity will be visually monitored during construction to ensure compliance with state water quality standards.

a. 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 use of construction equipment (e.g., boom lift, contractor vehicles) will be necessary to access and repair the existing structure. The operation of the equipment will result in short-term vehicular exhaust emissions lasting for the duration of construction. Efforts will be made to limit use of construction equipment and to reduce the idle times of engines.

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

Emissions will be generated from trucks transporting construction materials to and from the project site. After construction is completed, no additional off-site emissions will be produced.

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

All heavy equipment will be required to operate with appropriate vehicle emission control devices that are in compliance with current air quality standards. Efforts will be made to limit construction equipment movement at each site and to reduce the idle times of engines.

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 Lewis River is a designated Type 1 Shoreline of the State within the project site. The Lewis River flows into the Columbia River approximately 10 miles downstream of the proposed project area. On August 24, 2011, an MB&G wetland scientist inspected the proposed project areas and adjacent areas within 300 feet for streams, ponds, and wetlands; no additional wetland or water features were observed.

- 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.

Work will be required within and immediately adjacent to the Lewis River. All in-water work will be accomplished using hand tools and divers. No heavy equipment will be required to come in contact with the Lewis River during construction. The upper intake construction includes improving known weak points in the screen support system. Damaged structural elements will be replaced with new structural elements designed to resist larger loads. Additional elements will be installed to brace the existing structure. Damaged members will be replaced with members of the same size, with the upper connection having a larger weld to resist a larger potential hydraulic head differential. The connection at the bottom of the sloped wide flange will be a prefabricated C-shaped member that will fit over the front and back of the concrete wall. The original connection will be welded to the C channel. Screen panels will be removed in sections, and the concrete intake bays that hold the screens will be cleaned of organic material, loose sand, and gravel. Epoxy anchors will be installed in the existing concrete to support the new screen frame. Some screens may need to be replaced if they are damaged, otherwise they will be slid back into place once the frame is rebuilt. Since the pump is fed by two different intake pipes, upper intake repairs can be made by isolating half of the torpedo screen, and by removing half of the flat panel intake screen during repair. This approach will allow the upper intake pumps to operate, maintaining half the design flow to the hatchery facilities during construction.

- 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.

As described in the Joint Aquatic Resource Permit Application (JARPA), a maximum of ½ cubic yard of fill material will be placed below the OHWM of the Lewis River as part of the proposed project.

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

No surface water diversions will result from the project. All in-water work is relatively minor and will be accomplished by divers using small hand tools. Surface water withdrawals and isolation would likely result in prolonged and unnecessary impacts to the Lewis River.

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

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (Panel No. 5300320305D) indicate that the project lies within the 100-year floodplain and is within Zone A. It should be noted that flooding of the work area is extremely unlikely given the proposed timing of work activities and regulation of the OHWM by Merwin Dam.

- 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.

There will be no discharges of waste materials into surface waters associated with the project.

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.

No groundwater will be withdrawn, nor will water be discharged into groundwater sources as a result of the project.

- 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.

Not applicable. No waste material will be discharged into the ground from septic tanks or other sources.

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 footprint of the project area is small and ground disturbance is not required. Therefore, stormwater is not anticipated to be generated by the project. Some form of perimeter control (e.g. straw wattles, absorbent booms, rubber bumpers) will be installed around the staging areas to control potential spills or leaks from equipment and contractor vehicles.

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

The actions associated with this maintenance project will be accomplished via hand tools and divers. Materials to be added and removed include steel and structural components which will not negatively impact the Lewis River. Potential waste materials from upland areas will be minimized to the maximum extent practical and is further described in the proceeding question and answer.

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

Some form or perimeter control (e.g., straw wattles, absorbent booms, rubber bumpers) will be installed as necessary and will remain in place throughout the duration of the project to contain potential spills from

entering the Lewis River. Since the entire project will either occur below the OHWM or atop paved surfaces, runoff will not be measurably affected.

4. Plants

Although the majority of the project site is paved, adjacent areas contain a disturbed upland riparian vegetation community that consists primarily of non-native, introduced species. Typical plant species within this community are summarized below (Table 1). Each plant species' status as either a native, introduced or a noxious weed species is also listed. Table 1 does not constitute a complete inventory of plant species within the sites, but is presented to convey the general vegetation community identified during the site investigation.

Table 1. Typical vegetation within the disturbed upland riparian vegetation community in the vicinity of the Lewis River Hatchery Upper Intake Maintenance Project

Scientific Name	Common Name	Native Status ¹
<i>Cirsium arvense</i>	Canada thistle	Introduced
<i>Cytisus scoparius</i>	Scotch broom	Introduced
<i>Holcus lanatus</i>	Common velvetgrass	Introduced
<i>Phalaris arundinacea</i>	Reed canarygrass	Native
<i>Rubus armeniacus</i>	Himalayan blackberry	Introduced
<i>Schedonorus phoenix</i>	Tall fescue	Introduced
<i>Trifolium pretense</i>	Red clover	Introduced

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?

Vegetation will not be removed or altered.

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

There are no known threatened or endangered plant species 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:

Landscaping or other enhancement of vegetation is not proposed or necessary.

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.

There are six species of fish present or potentially present within the Lewis River near the proposed project that are currently listed as threatened under the federal Endangered Species Act. These species are also listed on the state's Priority Species List.

- Lower Columbia River Evolutionarily Significant Unit (ESU) Chinook salmon (*Oncorhynchus tshawytscha*) (Threatened)
- Lower Columbia River ESU Coho salmon (*O. kisutch*) (Threatened)
- Columbia River ESU Chum salmon (*O. keta*) (Threatened)
- Lower Columbia River Distinct Population Segment (DPS) Steelhead trout (*O. mykiss*) (Threatened)
- Columbia River DPS Bull trout (*Salvelinus confluentus*) (Threatened)
- Southern DPS Eulachon (Pacific smelt) (*Thaleichthys pacificus*) (Threatened)

Non-listed fish species that are present in the Lewis River system include:

- Cutthroat trout (*O. clarki clarki*)
- Kokanee (*O. nerka*)
- Rainbow trout (*O. mykiss*)
- Mountain whitefish (*Prosopium williamsoni*)
- Largescale sucker (*Catostomus macrocheilus*)
- Other resident fish

The proposed project's effect on ESA-listed salmonids has been addressed in Biological Assessments prepared by PacifiCorp for the USFWS and the NMFS, respectively. Both documents address the impacts associated with the continued operation of the Swift No. 2, Yale, and Merwin hydroelectric facilities. In addition, both documents address specific impacts associated with the construction and operation of the numerous fish enhancement projects scheduled (and ordered) to be constructed throughout the Lewis River system. The USFWS and the NMFS concurred with the Biological Assessments and issued independent Biological Opinions describing Best Management Practices (BMPs) and other protective measures to be undertaken to protect listed species and other aquatic resources present within the Lewis River system.

The southern DPS of eulachon (Pacific smelt) was listed as a threatened species on March 18, 2010 (75 FR 13012), following the issuance of the Biological Opinions discussed above. Eulachon of the southern DPS are endemic to the northwest Pacific Ocean ranging south of the U.S./Washington-Canada border, with

most production originating in the Columbia River Basin. The most consistent spawning runs return to the main stem of the Columbia River (from just upstream of the estuary to immediately downstream of Bonneville Dam) and in the Cowlitz River (74 FR 10857). Spawning also occurs in the Grays, Skamokawa, Elochoman, Kalama, Lewis, and Sandy Rivers (tributaries of the Columbia River) (74 FR 10857). Critical Habitat for the southern DPS of eulachon was proposed on January 5, 2011, and includes the lower Lewis River up to River Mile (RM) 19.5 (Merwin Dam) (76 FR 515).

Adult eulachon presence within the Lewis River is generally limited to the duration of the yearly spawning run (January – March). During spawning, eulachon typically move upstream in the Lewis River approximately 10 miles to Eagle Island. However, they have been observed as far upstream as Merwin Dam (approximately 19.5 miles from the mouth of the river) (76 FR 515). Merwin Dam currently presents a passage barrier to all anadromous fish, including eulachon, and it is unknown whether eulachon ascended the river beyond RM 19.5 prior to construction of the dam (76 FR 515). The Lewis River has periodically produced very large spawning runs of eulachon; nearly half of the total commercial eulachon catch for the Columbia River Basin in 2002 and 2003 came from the Lewis River (76 FR 515).

The spawning reach for this species is more or less limited to portions of a river that are tidally influenced. Entry into the spawning river appears to be related to water temperature and the occurrence of high tides. Spawning occurs at night in substrates ranging from silt, sand or gravel, to cobble and detritus (Wilson et. al. 2006). Eulachon eggs typically hatch in 20 to 40 days, with incubation time dependent on water temperature. Shortly after hatching, the 4-8 millimeter long larvae are carried downstream and dispersed by estuarine, tidal, and ocean currents, where they are then retained in low salinity surface waters of estuaries for several weeks or longer before entering the ocean (76 FR 515; Wilson et. al. 2006). Larval eulachon have been caught along the Lewis River by the WDFW during sampling efforts conducted in 2007, 2008, and 2009 (76 FR 515). For additional information on the habitat requirements, life history, and limiting factors for recovery of the southern DPS eulachon, see the Federal Register published on March 18, 2010 (75 FR 13012) and January 5, 2011 (76 FR 515).

As noted, NMFS's 2010 listing of southern DPS eulachon occurred following issuance of the Biological Opinions issued for the Lewis River projects; thus, no ESA coverage exists for proposed actions that may affect this DPS. In light of this, PacifiCorp conducted an assessment of the proposed project to determine whether a separate Biological Assessment/Biological Opinion and corresponding protection measures would be necessary to specifically address impacts to southern DPS eulachon. PacifiCorp concluded that impacts could largely be avoided through strategic timing of in-water work and planned protection measures, such as implementing perimeter controls in upland areas and minimizing work below the OHWM (i.e. removing parts of the upper intake to be repaired in upland areas). Therefore, additional protection measures specific to eulachon are not warranted. The proposed maintenance work will occur between August 1 and August 15, 2012, well beyond eulachon spawning and emergence periods.

In summary, PacifiCorp has reviewed the proposed design and schedule for maintenance on the upper intake with respect to the recent listing under the ESA of the southern DPS eulachon. Given the nature, timing and limited duration of the project, consultation with NMFS is not deemed warranted.

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

The stretch of the Lewis River within and in the immediate vicinity of the project site is considered a migration route for LCR Chinook and coho salmon and southern DPS eulachon. The analysis of potential impacts to these species has been described in the preceding section of this document.

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

An IWWPP has been prepared to preserve wildlife and is available in Appendix D of this permit application package. Wildlife enhancements are not proposed or necessary.

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 completed project will not require any new external energy to meet its intended purpose.

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

No, the project would not affect 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:

The project does not create new energy demands.

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.

Minor spills related to the operation of construction equipment, such as diesel and oil, have the potential to occur during construction. No toxic chemicals or hazardous waste materials will be generated by the project. No long-term environmental health hazards will be present as a result of implementing the proposed upgrades.

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

No special emergency services will be required upon completion of the project.

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

An IWWPP will be implemented for the project in accordance with the Merwin Hydroelectric Project's Water Quality Certification from the DOE. In addition, no fueling will take place within 50 feet of the wetted edge of the Lewis River. A spill response kit will be located onsite.

b. Noise

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

Normal noise levels in the area are relatively low. Traffic volumes on the Old Lewis River Road in the vicinity of the project site are also relatively low.

- 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.

Temporary construction noise will occur during construction of the project over a period of approximately two weeks. No long term change in noise level will occur.

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

When applicable, all construction vehicles and construction equipment will have the appropriate sound muffler devices properly functioning.

8. Land and shoreline use

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

The site is currently used as a hatchery facility along the Lewis River. Adjacent properties include rural residences and agricultural areas.

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

No, the site has not been used for agriculture.

- c. Describe any structures on the site.

The main structure onsite is the upper intake pump station. The majority of the hatchery complex is removed from the project site; it includes four operational outbuildings, an office, and several hatchery operator residences. The hatchery also includes four concrete ponds that are used for holding juvenile and adult fish.

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

No structures will be demolished during construction of the project. While portions of the upper intake facility will be removed and replaced and/or repaired, the majority of the structure will remain in place.

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

The site is located in a portion of Cowlitz County that is un-zoned.

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

The project site is designated Rural Residential (RR2).

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

The current shoreline master program designation is Conservancy.

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

Fish and Wildlife Habitat Conservation Areas and Shorelines Critical Areas are present within the project area. However, the proposed project will likely fall under the Critical Areas Maintenance and Shorelines Maintenance Exemptions (Ron Melin, Cowlitz County Planning Department, email comm., March 22, 2012 [email available upon request]).

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

The completed project will not require permanent employee residence either during or following construction.

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

The project will not result in any displacements.

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

No measures are necessary to avoid or reduce displacements.

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

The project will not result in any change to the current use of land or facilities. As described, the project was designed to repair the existing upper water intake for the Lewis River Hatchery Facility.

9. Housing

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

The project does not include any housing developments.

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

The project does not involve demolition of existing housing.

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

No impacts to housing will occur 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?

The proposed project does not include new structures.

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

No views will be altered by proposed repair work.

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

Does not apply.

11. Light and glare

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

The project does not involve the installation of new lighting.

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

No light or glare will result from the project.

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

Although there are existing light sources associated with the adjacent Lewis River Hatchery facility, they do not affect the proposal.

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

Does not apply.

12. Recreation

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

Recreational fishermen and boaters utilize the Lewis River in the vicinity of the proposed project.

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

The proposed project would not displace existing 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:

Not applicable.

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 listed on, or proposed for, national, state or local preservation registers on or next to the site.

- 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 culturally or historically significant sites in the immediate vicinity of the project.

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

Not applicable.

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 site is accessed from Old Lewis River Road. No change to site access is proposed or required.

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

No, there is no public transportation in the immediate vicinity of the proposed project.

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

There will be no changes to the Lewis River Hatchery parking area 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).

No, the proposed improvements will not require any new roads or streets.

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

Construction vehicles will utilize existing surface roads to access the site. No change in long-term use will

occur with the completed project.

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

No change in vehicular trips will occur with the completed proposed project.

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

Not applicable.

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, 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.

Not applicable.

16. Utilities

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

No utilities are currently available at the project site. Electricity, water, refuse service, telephone, sanitary sewer utilities are available at the nearby Lewis River Hatchery facility.

- 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.

No changes to the current utility service at the site are proposed.

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:

Bruana Weatherly

Date Submitted:

5-10-12