

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:

Cathlamet Channel Net Pens

2. Name of applicant: Washington Department of Fish and Wildlife.

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

600 Capitol Way N

Olympia, WA 98501-1091

Contact: Cindy LeFleur, Region 5 Fish Program Manager – 360-906-6708

4. Date checklist prepared: August 11, 2013

5. Agency requesting checklist: WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

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

Net pens in Cathlamet Channel would typically receive fish between October – January and release fish February – April. Net pen installation and removal would typically take place at the beginning and end of those periods. Fishing activities will typically occur March – June although this will not commence until released juveniles begin returning as adults in 1-2 years.

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

Not at this time.

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

A JARPA is being submitted to Army Corps of Engineers, DNR, Wahkiakum County Planner, and WDFW to obtain necessary permits. An HGMP (Hatchery Genetic Management Plan) for Cathlamet Channel Net Pens is being submitted to NOAA Fisheries for consultation and approval for ESA coverage. A previous study document by BPA 6450-0 1-P entitled Finding of No Significant Impact for Lower Columbia River Terminal Fisheries Research Project was prepared and can be found on WDFW SEPA web site:http://wdfw.wa.gov/licensing/sepa/sepa_comment_docs.html.

Test fishing, by WDFW or contractors, is being used to determine the percentage of adult salmon passing through the immediate Cathlamet Channel area that are ESA-listed. Test fishing in 1994 was conducted over the period of 20 April through 2 June and during 1995 was conducted over the period of 25 April through 31 May to aid in evaluating sites for suitability for net pens. The incidence of upriver fish in 1994 was estimated to be 1/18, upriver to lower river fish, and in 1995 there were no known ESA-listed fish encountered. Test fishing was also conducted from Mar 28 – May 20, 2013 and indicated a much lower catch rate in the bottom portion of Cathlamet Channel where the net pens will be located as opposed to the top part of the Channel where it meets the Columbia River. This is a positive indication that harvesting can be conducted in the immediate area of the net pens with reduced interactions with ESA-listed fish. Test fisheries are anticipated to be conducted again in the spring of 2014 to continue monitoring incidence of ESA-listed spring Chinook in Cathlamet Channel. These test fisheries will be pursued even if permitting is not obtained for net pen placement by December 2013. Test fisheries to date indicate that Cathlamet Channel is not a main migratory pathway for the ESA-listed spring Chinook and that it is a promising location for locating net pens.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No WDFW is not aware of any applications for, or other proposals directly affecting, its proposed project for placing net pens in Cathlamet Channel.

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

Permit from USACE.

HPA from WDFW.

Shoreline Permit from Wahkiakum County.

Aquatic Land Use Authorization from Washington DNR.

ESA Informal Consultation with NOAA Fisheries.

Approval from Cathlamet City Council to attach net pens to city docks.

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.)

This project involves rearing 250,000 juvenile hatchery spring Chinook in net pens on an annual basis from October to February, in the Cathlamet Channel, an off-channel area of the Columbia River. These fish would be reared and released to provide fishing harvest opportunity as discussed below. At a certain size (or life stage) the juveniles would be released from the net pens and migrate to the ocean to feed and grow into adults. By rearing the juvenile spring Chinook in a specific off-channel area (a body of water/side

channel that is connected to the main river channel) they will become acclimated to that area and it is expected that they will home in on that location when they return as adults. Because they have been acclimated to this location as juveniles the returning adults will generally remain in the net pen area and be available for harvest through WDFW-managed fisheries. WDFW's main purpose is to find an area to raise and release hatchery fish so that, upon their return, commercial fishing seasons can be set to collect those adult hatchery fish without negatively impacting other salmon runs.

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.

These net pens will be located at the City Dock, at the end of Broadway Street, Cathlamet, WA 98612. The section, township, and range are: SW2 8N 6W. The lat/lon are: 46.200950 N lat. / -123.386330 W long. The property is used for public access to the Cathlamet Channel and, as it is publically owned, has no tax parcel number or legal description. The city docks are used for fishing and as a temporary mooring site for recreational boats. The docks have also been used to temporarily moor cruise ships while passengers visit the city of Cathlamet. A site plan, vicinity map, and topographic map are attached at the end of this document.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other
N/A = net pens and fisheries are located in and on the water.
- b. What is the steepest slope on the site (approximate percent slope)?

N/A = net pens and fisheries are located in and on the water.
- 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.

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

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

No fill or grading is proposed.
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

N/A – there is no proposed construction or clearing for the installation and maintenance of the net pens.
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

0%

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

N/A = erosion and other impacts to the earth will be avoided due to the lack of movement of earth. Vessels transporting net pens to and from the site and any vessels servicing these net pens will practice no wake operations to minimize shore erosion.

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 only emissions that can be reported would be from the small boat towing the net pens from Deep River to Cathlamet city docks and return, and from the vehicle that would deliver the fish to the net pens. Emissions will occur from the commercial and recreational fishing boats once adult fish start returning, however it is anticipated these will be fishing efforts shifted from the mainstem Columbia and may not result in a net increase in emissions. It is assumed that these emissions will not propose a significant impact to the air.

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

No.

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

N/A = Air impacts are not expected to occur.

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 net pens will be placed in Cathlamet Channel which is part of the Columbia 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. The net pens will be towed from Deep River already assembled and will be secured to the Cathlamet City Docks. Wood walkways are placed between net pens to allow access. Underwater and on-water maintenance of the net pens may occur while they are located at this site.

- 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.

No fill or dredge material will be removed or added to the net pen sites.

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

The project proposal does not require surface water withdrawals or diversions for Cathlamet Channel.

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

N/A = the net pens and fisheries are located in the water.

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.

Fish waste from the rearing fish in the net pens will be released directly into the water. The volume will vary depending on the number of fish reared at the particular site. NPDES wastewater discharge permits are required for any facility with more than 20,000 pounds of net production or feeding more than 5,000 pounds of food in a month. Cathlamet Channel net pens will have a net production of 8,400 pounds of fish and will have less than 5000 pounds of feed per month which is below the requirements of an NPDES permit.

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 ground water will be withdrawn or discharged into the 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.

N/A = this project does not deal with septic tanks or any other sources of domestic waste disposal.

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.

N/A = net pens and fisheries are located in and on the water.

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

The fish capacity and waste production of net pens are designed and placed in areas that would create minimal impacts on the surrounding environment. Sites are selected on a variety of conditions including, water depth, flow, velocity, exposure to weather, access and probability of attracting returning adults. Continual movement of water through the net pen area allows waste and other detrital material produced by the fish in the net pens to be flushed and dispersed into the main body of water. In the 1994 report on Columbia River terminal fisheries (Hirose, Miller and Hill 1996), multiple measurements were recorded looking at area, depth, and velocity in the Cathlamet Channel, receiving an overall rating of 24, based on rearing and harvest criteria. This site exceeds the minimum area and depth (11 ft.) requirements and provides adequate flow and velocity to maintain water quality. Maximum water velocity recorded in December 1994 and January of 1995 taken less than a mile upstream of the proposed net pen site, measured 0.3 knots during the flood tide and 0.68 knots during the ebb tide (Hirose, Miller and Hill 1996). The Cathlamet Channel is a large off-channel area and in general is very deep, measuring 20-40 feet in the main channel and 15 feet on the fringes. Fish are placed in net pens when weather and water temperatures begin to drop and the fall rains begin, this allows for maximum water depth throughout the duration of rearing. The fish are then released in the early spring before these temperatures begin to rise. This rearing timeframe decreases the probability of the net pen fish contracting diseases and decreases the probability of impacts to the aquatic environment (Hirose, Miller and Hill 1996).

Hirose, Paul - Oregon Dept. of Fish and Wildlife; Miller, Marc - Washington Dept. of Fish and Wildlife; Hill, Jim - Clatsop County Economic Development Committee, 1996, Columbia River: Terminal Fisheries Research Project, 1994 Annual Report, Report to Bonneville Power Administration, Contract No's. 1993BI05409, 1993BI04982, Project No.1993060, 161 electronic pages (BPA Report DOE/BP-05409-1)

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

None, fish waste is expected to be below levels which would require control measures.

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?

N/A = net pens and fisheries will occur on the water. Vegetation is not expected to be encountered.

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

There are no known listed plant species on or near the net pen site.

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

N/A = no vegetation is expected to be encountered.

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:

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

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

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

d. Benthic invertebrates:

Potential impacts would most likely occur to fish and benthic invertebrates and the effects would mostly be just below the net pens.

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

Salmon, Chinook Lower Columbia River ESU (*Oncorhynchus tshawytscha*)

Salmon, Chinook Snake River fall-run ESU (*Oncorhynchus tshawytscha*)

Salmon, Chinook Snake River spring/summer-run ESU (*Oncorhynchus tshawytscha*)

Salmon, Chinook Upper Columbia spring-run ESU (*Oncorhynchus tshawytscha*)

Salmon, chum Columbia R. (*Oncorhynchus keta*)

Salmon, coho Lower Columbia River ESU (*Oncorhynchus kisutch*)

Salmon, sockeye ESU (*Oncorhynchus nerka*)
Steelhead lower Columbia R. (*Oncorhynchus mykiss*)
Steelhead middle Columbia R. (*Oncorhynchus mykiss*)
Steelhead Snake R. Basin (*Oncorhynchus mykiss*)
Steelhead upper Columbia R. Basin (*Oncorhynchus mykiss*)
Pacific Eulachon (smelt) (*Thaleichthys pacificus*)
Green sturgeon (*Acipenser medirostris*)

A consultation is on-going with NOAA Fisheries regarding the Cathlamet Channel Net Pens. All fishery-related activities in the lower Columbia River (below Bonneville Dam) have been provided to NOAA Fisheries during ESA consultation. NOAA Fisheries has provided a Biological Opinion that fisheries operated under the “U.S. v Oregon” Management Agreement” dated May 2008 meet the “no jeopardy” standard, and do not pose jeopardy to ESA-listed salmonids. All fishery activities would be consistent with ESA guidelines and requirements.

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

Yes, salmon acclimated in the off-channel net pens would return to the sites as adults on their upstream migration. Additionally, adult and juvenile anadromous fish from out of project areas may pass through this Channel. Migration impacts should be minimal due to the large body of water and relative small size of the net pens. Based on test fishing results in Cathlamet Channel the interaction with migrating salmonids is expected to be much lower than in the mainstem Columbia River.

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

N/A

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 net pens and net bags are manufactured off site and towed into position using outboard motors on small vessels or skiffs. The daily operation of the net pens does not require energy. The fish being acclimated to the net pens are feed by hand. Fishing boats will use diesel or gasoline fuel.

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

If so, generally describe.

No. The net pens with predator control netting sets three feet above the water surface and would not hinder adjacent property owners solar generation.

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:

Since the net pens draw no power once installed, there is not an energy conservation plan included in this proposal.

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.

None could be expected to reasonably occur.

1) Describe special emergency services that might be required.

In the event of high water flows with heavy debris load, the net pens would have to be monitored to ensure debris does not build up on the upper end of the pens.

- 2) Proposed measures to reduce or control environmental health hazards, if any:
There are no known environmental health hazards expected.

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 known noises that would affect the net pen project or fisheries.
- 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.
A minimal amount of noise would be created during daylight hours when the net pens were installed, removed or maintained. Daily feeding and maintenance will take place during daylight hours and will produce minimal noise. There will be minimal boat noise associated with the commercial and recreational fishing boats.
- 3) Proposed measures to reduce or control noise impacts, if any:
With the project projected to create a minimal amount of noise with little to no impact there is not a plan to reduce or control noise impacts.

8. Land and shoreline use

- a. What is the current use of the site and adjacent properties?
The property is used for public access to the Cathlamet Channel. The city docks are used for fishing and as a temporary mooring site for recreational boats. The docks have also been used to temporarily moor cruise ships while passengers visit the city of Cathlamet. The adjacent properties are used for shipping, business and residential purposes.
- b. Has the site been used for agriculture? If so, describe.
N/A = Net pens are located on the water.
- c. Describe any structures on the site.
The docks are used for public access to the Cathlamet Channel to moor recreational boats as well as for fishing access and are in good working condition.
- d. Will any structures be demolished? If so, what?
No.
- e. What is the current zoning classification of the site?
The city docks are publically owned.
- f. What is the current comprehensive plan designation of the site?
None known at this time.
- g. If applicable, what is the current shoreline master program designation of the site?
Urban aquatic.

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?

No humans will inhabit the net pens or fishing areas as a result of this proposal. Net pen operations require 2- 3 staff to maintain the net pen structures, nets and feed acclimating fish.

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

This project will not displace any people.

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

N/A = this project will not displace any people.

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

N/A = this is an in-water project and does not involve extensive land use.

9. Housing

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

N/A = this project is not building resident housing.

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

N/A = this project is not eliminating resident housing.

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

N/A = this project is not building resident housing.

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?

Some net pens have predator control netting fixed to the top of the pens with PVC pipe that is typically three feet high.

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

Since the highest point of the net pens is three feet, no views will be altered or obstructed.

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

N/A = no aesthetic impacts.

11. Light and glare

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

This project will not produce any light or glare.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?
This project will not produce any light or glare.
- c. What existing off-site sources of light or glare may affect your proposal?
This project will not be affected by off-site sources of light or glare.
- d. Proposed measures to reduce or control light and glare impacts, if any:
This project will not produce any light or glare.

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?
There are a multitude of recreational fishing and boating (motorized and non-motorized) opportunities in the area, including fishing, sailing, kayaking. Camping and hiking occurs on the lands and islands located adjacent to the Columbia River.
- b. Would the proposed project displace any existing recreational uses? If so, describe.
The city docks would not be available for use by recreational boats during the time period when the net pens are in place. However the dock is currently used very infrequently and the net pens would be in place during the late fall and winter months when use of the docks is minimal and there is plenty of room at the nearby Elochoman Slough Marina located in Cathlamet.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

If the CC net pens are successful there may be an increase in recreational salmon fishing in the area, otherwise WDFW does not foresee any impact to recreational opportunities.

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 the national, state, or local preservation registers on or next to the proposed net pen 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 landmarks or evidence of historic, archaeological, scientific or cultural importance known to be on or next to the proposed net pen site.
- c. Proposed measures to reduce or control impacts, if any:
If any evidence is uncovered that is thought to have historic, archaeological, scientific or cultural importance the experts at the Washington Department of Archaeology and Historic Preservation will be notified. The net pens are non-permanent structures and can be relocated if needed.

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 city docks are located at the end of Broadway Street in downtown Cathlamet. See site plan attached.

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?
Cathlamet, WA does not have public transit. The nearest known public transit is in Longview, WA approximately 20 miles to the east of Cathlamet.
- c. How many parking spaces would the completed project have? How many would the project eliminate?
None. This project would not impact current parking patterns or activities.
- 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).
None. This project would not impact current driving patterns or activities. All access will be by public thoroughfares.
- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
The nets pens will be towed using a small boat from the Deep River net pen location to the Cathlamet city docks via the Columbia River and Cathlamet Channel. Once in place the net pens will remain there for up to 5 months until the fish have been released. At that point the net pens will be towed back to Deep River for storage. No rail or air transportation will be used, nor is the project located in the vicinity of these modes of transportation.
- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.
Normal net pen operations would involve one or two trips per day to deliver fish feed or materials for maintenance and repairs.
- g. Proposed measures to reduce or control transportation impacts, if any:
Pre-trip planning will reduce the number of trips per day and minimize any impacts on local traffic.

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.
None.
- b. Proposed measures to reduce or control direct impacts on public services, if any.
N/A.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.
City docks typically have electricity and water available. It is not known if Cathlamet city docks have those.
- 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.
None are needed as the net pens do not require any of these utilities.

C. SIGNATURE

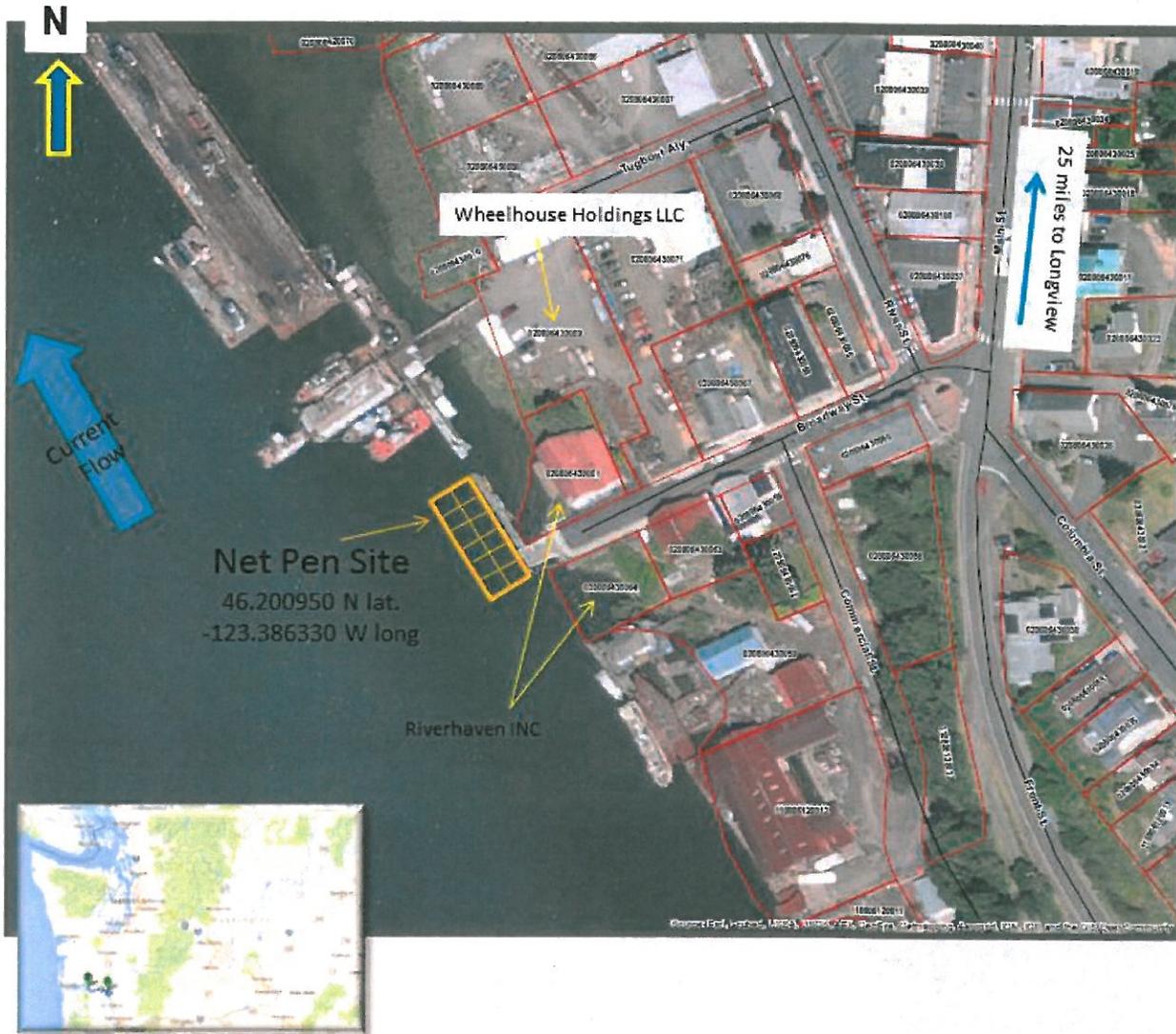
The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: *Cindy LeFleur*

Date Submitted: 8/15/13

D. SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS

Proposed Cathlamet Channel Net Pen Site



| | | |
|--|--|--|
| REFERENCE: _____ | LOCATION: City Dock, end of Broadway Street, Cathlamet, WA 98612/public right of way | PROPOSED PROJECT: Seasonally attach net pens to rear juvenile spring Chinook |
| APPLICANT: Washington Department of Fish and Wildlife | LAT/LONG: 46.200950 N lat. / -123.386330 W long | IN: Cathlamet Channel |
| ADJACENT PROPERTY OWNERS: 1. Riverhaven INC/ 020806430061, 020806430064 2. Wheelhouse Holdings LLC/ 020806430069 | PAGE 1 OF 4 DATE: August 12, 2013 | NEAR/AT: Cathlamet COUNTY: Wahkaikum STATE: WA |

Map to Project Location

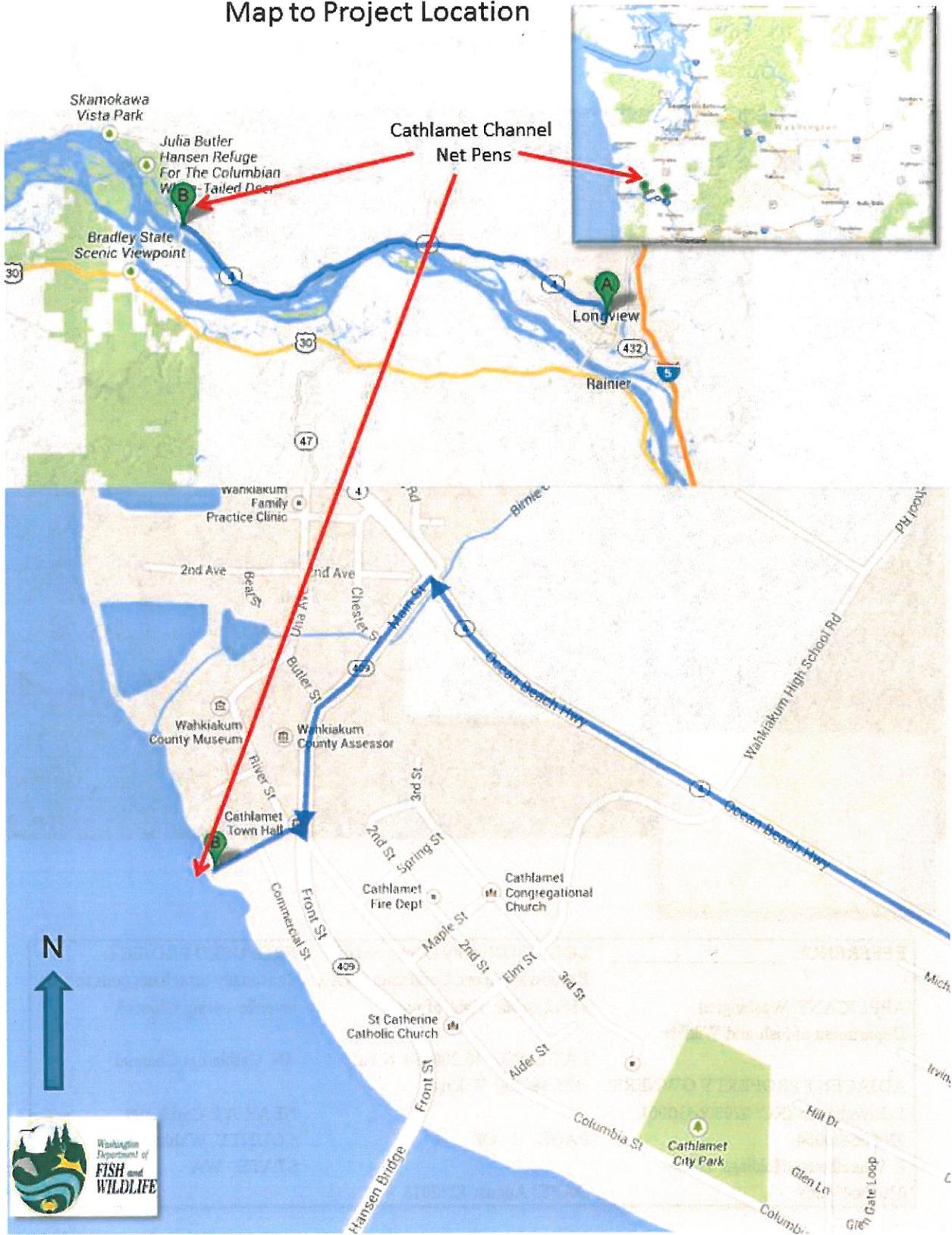


Figure 3. Example of net pens. These are Deep River net pens.



