Washington Department of FISH and WILDLIFE

State of Washington
DEPARTMENT OF FISH AND WILDLIFE

Mailing Address: 600 Capitol Way N, Olympia, Washington 98501-1091 - (360) 902-2200

ENVIRONMENTAL CHECKLIST
(WAC 197-11-960)

A. BACKGROUND

1. Name of proposed project, if applicable:

Samish Hatchery: Samish River Intake Repair and Friday Creek Intake Repair

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

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

Washington Dept of Fish and Wildlife
Capitol Programs & Engineering Division
600 Capitol Way North
Olympia, WA 98501-1091

Contact Person: Cindy Knudsen
Fish and Wildlife Biologist
Telephone Number: (360) 902-8422
Fax Number: (360) 902-8367
E-Mail: cindy.Knudsen@dfw.wa.gov

4. Date checklist prepared: April 27, 2010

5. Agency requesting checklist: Washington Department of Fish and Wildlife.

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

Summer 2010.

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

No.

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

FEMA ESA consultation USFWS NMFS

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.

None are pending.

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

A Skagit County Shoreline Exemption Permit and WDFW HPA, and Army CORP permit will be needed.

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.

This project will repair damages at two Samish Hatchery water intake areas caused by the 2009 flood event. Sediment was deposited in both areas. The sediment will be removed, and materials (quarry spalls and riprap) will be placed that will restore these areas to pre-damaged conditions.

Site 1) Samish River Intake Repair:

Fill: 20 CY Quarry Spalls will be used to restore the bank (3 feet x 30 feet x 6 feet).
Cut: 167 CY Silt and gravel debris will be removed from the Samish River bank area to remove siltation (30 feet x 50 feet x 3 feet) deposited by the 2009 flood event and to restore safe hatchery operation (see site drawings).

Site 2) Friday Creek Intake Repair:

Fill: 25 CY Riprap will be used to restore and protect the pipeline (30 feet x 6 feet x 4 feet). Fifty (50 CY) silt and gravel debris will be removed from Friday Creek from above OHW. These materials were temporarily stored here when emergency repairs were conducted during the flood event as part of the emergency repairs for Friday Creek Intake repair site. They will be taken to an approved disposal facility out of the flood zone (see site drawings).

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including 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.

For the Samish Hatchery repair projects, there are two project locations.

The two proposed project sites are located within the WDFW Mount Baker Hatchery Complex, located in Burlington, Washington. Both of the sites are reached from Bow Hill Road off of I5, exit 236.

Site 1.)
Samish River Intake Repair (48.54781, -122.33539)
Skagit County: Township 35 North Range 4 East Section 6
Friday Creek from Interstate 5 north, take exit 236 and turn east (right) at the Bow Hill road exit. Follow Bow Hill Road until you arrive at the Burlington Alger Road/ Old HW 99. Turn right (south). Turn in at the N. Green Road on the left, and follow this road past the hatchery to the Samish River Intake and adult holding pond area.

Site 2.)
Friday Creek Intake Repair (48.56791, -122.33630)
Skagit County : Township 36 North Range 4 East Section 31
From Interstate 5 north, take exit 236 and turn east (left) at the Bow Hill road exit.

From Bow Hill Road pass the Darrk Lane Road, and turn in at the next (dirt) access road to the left (this dirt road parallels I 99 North). Follow this road to the Friday Creek intake area.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (underline one): flat, rolling, hilly, steep slopes, mountainous, other_____.

Both sites are flat.

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

Site 1.) Samish River Intake Repair: 0 – 3% slope
Site 2.) Friday Creek Intake Repair: 0 – 8% slope

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

Site 1.) Samish River Intake Repair: Soil type: Larush variant silt loam

Site 2.) Friday Creek Intake Repair: Soil type: Barneston gravelly loam and Cokedale silt loam.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. No.

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

Site 1) Samish River Intake Repair:
Fill: 20 CY Quarry Spalls will be used to restore the bank.
Cut: 167 CY Silt and gravel debris will be removed from the Samish River bank area to remove siltation deposited by the 2009 flood event and to restore safe hatchery operation

Site 2) Friday Creek Intake Repair:
Fill: 25 CY Riprap will be used to restore and protect the pipeline (30 feet x 6 feet x 4 feet). 50 CY silt and gravel debris will be removed from Friday Creek above OHW. These materials were temporarily stored here when emergency repairs to remove these materials were conducted during the flood event. They will be taken to an approved disposal facility.

The fill materials for both sites will be purchased from a local quarry.

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

Yes, removal of silt and gravel will temporarily disturb road surfaces.

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

There will be no increase in impervious surfaces at Site 1 and 2.

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

Erosion impacts will be reduced in both project locations by placing a sediment barrier around the construction sites to isolate the disturbed area from surface waters.

2. Air

a. What type 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.

Low levels of vehicle exhaust emissions and dust from construction activities are expected during project activities for both sites. No long-term effects in air quality are anticipated to 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.

c. Proposed measures to reduce or control emissions or other impacts to air, if any: None.

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 or wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Site 1.) Samish River Intake Repair - The Samish River is at this site.
The Samish River flows into Samish Bay

Site 2.) Friday Creek Intake repair - Friday Creek is located at site 2.
Friday Creek flows into the Samish River that flows into Samish Bay

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes both sites are directly adjacent to water. Site 1 is adjacent to the Samish River, and Site 2 is adjacent to Friday Creek (see attached plans).

3) Estimate the amount of <u>fill and dredge material</u> that would be <u>placed in</u> or <u>removed from</u> surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

1.) Samish River Intake Repair:
Fill: 20 CY Quarry Spalls will be used to restore the bank.
Cut: 167 CY Silt and gravel debris will be removed to restore safe hatchery operation

2.) Friday Creek Intake Repair:
Fill: 25 CY Riprap will be used to restore and protect the pipeline
Cut: 50 CY silt and gravel debris will be removed from this area above OHW (see site plans). These materials were removed from the intake area during emergency repairs during the 2009 flood event. They will be taken to an approved disposal area out of the flood plain.

The fill materials will be purchased from a local quarry.

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

No.

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

Yes, these sites are within the 100-year floodplain.

6) **Does the proposal involve any discharges of waste material to surface waters? If so, describe the type of waste and anticipated volume of discharge.** No.

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.

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.**

No waste material will be discharged from either site.

c. **Water Runoff (including storm water):**

1) **Describe the source of runoff (including storm water) and method of collection and disposal, if any (including quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

Stormwater in the area sheet flows from impervious road surfaces onto adjacent farmland and rural areas and is infiltrated before reaching surface waters. These projects will not change storm water runoff patterns.

2) **Could waste materials enter ground or surface waters? If so, generally describe.** No.

d. **Proposed measures to reduce or control surface, ground and runoff water impacts, if any:**
None.

4. **PLANTS**

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

_x_ deciduous tree: alder, maple, aspen, other

x evergreen tree: fir, cedar, pine, other; Sitka spruce (Site 2 only)

_x_ shrubs

_x_ grass

___ Pasture

___ **crop or grain**

___ **wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other**

___ **water plants: waterlily, eelgrass, milfoil, other**

___ **other types of vegetation**

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

At Site 1, no vegetation will be removed, At Site 2, no vegetation will be removed.

c. List threatened and endangered species [of plants] known to be on or near the site.

None.

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

Any Disturbed ground above ordinary high water will be planted with cuttings taken from on-site, including cottonwood, willow, and red osier dogwood.

5. ANIMALS

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

Birds: <u>hawk</u>, <u>heron</u>, <u>eagle</u>, <u>songbirds</u>, other: waterfowl.

Mammals: <u>deer</u>, bear, elk, beaver, other:

Fish: bass, <u>salmon</u>, trout, herring, shellfish, other:

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

Endangered species are known to occur near this site in the Samish River and in Friday Creek. These include Puget Sound Chinook, Puget Sound Steelhead and Bull Trout.

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

Puget Sound salmon including Chinook and steelhead most likely utilize the Samish River and Friday Creek as overwinter rearing habitat. Bull trout may be in the area as the Samish River is considered critical bull trout habitat area.

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

None.

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. None.

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

generally describe. No.

c. **What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:** None.

7. **ENVIRONMENTAL HEALTH**

a. **Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill or hazardous waste that could occur as a result of this proposal.** No.

1) **Describe special emergency services that might be required.** None.

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)?** None.

3) **What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.**

Temporary increases in noise levels during construction activities are expected from this project. Hours of increased noise will be 8 am to 5 pm. No long term change in noise levels is expected from the completed project.

3) **Proposed measures to reduce or control noise impacts, if any:** None.

8. **LAND AND SHORELINE USE**

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

Both of these sites support the fish hatchery water intake system. Adjacent properties provide valuable wildlife habitat.

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

No.

b. **Describe any structures on the site.**

c.

Site 1.) Samish River Intake Repair site:
There are adult rearing ponds, a hatchery fish ladder, a pump house, an intake box, and a barrier dam at this site.

Site 2.) Friday Creek Intake repair site:
There is a dirt road leading into this site with a water intake structure.

d. **Will any structures be demolished? If so what?** No.

d. **What is the current zoning classification of the site?**

Site 1.) Samish Intake Area - RRV (Rural Reserve)
Site 2.) Friday Creek - RRV (Rural Reserve)

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

Site 1.) Samish Intake Area - RRV (Rural)
Site 2.) Friday Creek - RRV (Rural)

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

Rural

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 persons would reside at either of these sites. Fisheries staff members work at both of these sites on a limited basis.

j. Approximately how many people would the completed project displace? None.

k. Proposed measures to avoid or reduce displacement impacts, if any: None.

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

Proposed repair of these two sites will enhance this area for the fish hatchery operations, which is its intended purpose.

9. HOUSING

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. None.

c. Proposed measures to reduce or control housing impacts, if any: None.

10. AESTHETICS

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Proposed repairs would not extend above ground level. Dirt, rock will be the principle building materials at both sites.

b. What views in the immediate vicinity would be altered or obstructed? None.

c. Proposed measures to reduce or control aesthetic impacts, if any: None.

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 glare at either site.

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

No.

c. **What existing off-site sources of light or glare may affect your proposal?** None.

d. **Proposed measures to reduce or control light and glare impacts, if any:** None.

12. RECREATION

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

There are hunting and fishing opportunities near these sites. There are also waterfowl viewing opportunities available,

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

No recreational activities will be displaced.

c. **Proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant, if any:** None.

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.**

None are known.

b. **Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.** None are known.

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

Excavation will only occur in areas where sediment was deposited during the 2009 flood event at both sites

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.**

Interstate 5, Bow Hill Road and old HW 99 serve this site.

b. **Is site currently served by public transit? If no, what is the approximate distance to the nearest transit stop?**

No. The nearest public transit stop is unknown.

c. **How many parking spaces would the completed project have? How many would the project eliminate?** None.

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.

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

so, generally describe.

There is no established water, air or rail transportation nearby.

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 WDFW staff vehicle trips will occur. These areas are closed to public vehicular traffic.

g. Proposed measures to reduce or control transportation impacts, if any: None.

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.

b. Proposed measures to reduce or control direct impacts on public services, if any: None.

16. UTILITIES

a. Underline utilities currently available at the site: Electricity, Natural Gas, Water, Refuse Service, Telephone, Sanitary Sewer, Septic System, Other.

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 utilities will be added or changed from this project.

C. SIGNATURE

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

SIGNATURE: Cinthia Knowle **DATE SUBMITTED:** 4/28/2010