

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:

Beebe Springs Natural Area Development – Phase 4

2. Name of applicant:

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

**Ron Fox, Project Manager, Washington State Department of Fish and Wildlife (WDFW)
(509) 665-3383**

Don Benson, Agent, URS (206) 438-2027

Jim Brennan, Prime Consultant, Brennan and Associates (206) 583-0620

4. Date checklist prepared: **June 2011**
5. Agency requesting checklist: **Washington State Department of Fish and Wildlife; Washington State Department of Ecology**
6. Proposed timing or schedule (including phasing, if applicable):
Phase 4 construction is expected to begin during the Spring of 2012, with completion expected sometime in the Summer of 2013. Additional phases will be constructed as funding is acquired or available.
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
Yes. The remaining items listed in the overall Site Master Plan will be constructed at undetermined dates as funding is acquired or available.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.
State Environmental Policy Act (SEPA) and Joint Aquatic Resource Permit Application (JARPA) documents were prepared for Phase 3 of the project. A Biological Assessment (BA) Addendum and JARPA have been prepared for Phase 4 work.
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.
10. List any government approvals or permits that will be needed for your proposal, if known.
For Phase 4, a JARPA and BA Addendum have been prepared. Chelan County may require approval for a grading permit and the County may also require a Shoreline Substantial Development Permit variance for work in critical areas. Permits and approvals are anticipated prior to construction.
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 proposal involves construction (Phase 4) near the Columbia River (Lake Entiat) on a portion of the 64-acre Washington State Department of Fish and Wildlife property adjacent to US 97 and across the road (east) from the Chelan Fish Hatchery. Previous work in Phase 3 has been completed. Work in Phase 4 will include about 0.26 acre of American with Disabilities Act (ADA) compliant trails with crushed rock surfacing along the northern (upstream) tip of the property; up to four (4) viewpoints (each approximately 540 square feet) surfaced with crushed rock; interpretive signage; riparian restoration work, including removal of non-native Lombardy poplar trees and Himalayan blackberries, selective clearing and grubbing elsewhere, and planting of native trees and shrubs to create about 1.35 acres of complex multi-story riparian habitat; restoration of approximately 5.7 acres of upland habitat that will be seeded with native shrub steppe grasses and forbs and planted with live shrubs; and abandonment of approximately 135 feet of culvert that drains surface water from the west side of US 97, and excavation (approximately 0.09 acre) of approximately 260 feet of new channel through the shrub-steppe habitat to accommodate the runoff. This will create approximately 0.09 acre of additional riparian environment. Two new 10 ft. long 8-inch culverts will be constructed at the end of the new channel along with a log "spreader" to dissipate the stormwater flows. The

upper or initial ten feet of the abandoned culvert will be removed and the open end capped to prevent water from entering the pipe.

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 proposal is located along US 97 about 2.5 miles southeast of the City of Chelan in Chelan County near the Chelan Fish Hatchery operated by WDFW. It is next to the Columbia River (Lake Entiat) and is situated upstream from the Beebe Springs Bridge on US 97. It lies within Section 20, Township 27 North, Range 23 East, W.M. A vicinity map and site plan are attached. A legal description is available from WDFW upon request.

B. ENVIRONMENTAL ELEMENTS

1. Earth

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

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

Approximately 5-7%.

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.

Soils generally consist of alluvium overlying cobbles and gravels, with layers of coarse sands and sandy silts interbedded in the cobbles and gravels. Soil classifications include Chelan gravelly sandy loam, Pogue gravelly sandy loam and Supplee very fine sandy loam. Because of construction in previous phases, very little prime farmland (former orchard) remains.

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.

The amount of fill will be approximately 15 to 20 cubic yards (cy) for trails and viewpoints. The fill will be obtained from other areas excavated on site except for some select fill that may be imported for the viewpoint areas. Almost all the excavated material will be reused on-site. Approximately 0.3 acre of area will be graded or altered (includes paths, viewpoints).

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

Yes, some erosion could occur. However, erosion and sediment control measures will be used to minimize erosion, and revegetation will occur.

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

Approximately 1-2% (mostly trail surfacing and small structures such as viewpoints).

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

Construction Best Management Practices (BMPs), including a Temporary Erosion and Sediment Control Plan, will be in place prior to and during construction. In addition, revegetation/replanting will occur.

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.

Some emissions could occur from construction vehicles during construction. Some dust could also be generated during construction activities.

- 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:

Construction activity would be kept to the minimum necessary. Dust control measures will be implemented as needed.

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.

Yes. The Columbia River (Entiat Lake) lies adjacent to the site. A stream (Beebe Springs Creek), originating at the Chelan Hatchery, flows across the site to the River. During Phases 1, 2 and 3, wetlands (A, B, C, D) were identified and delineated at various locations on-site mainly near the River and in small depressions in upland areas. All have been classified as Category III.

- 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. Work (clearing and grubbing of invasive species and placement of two small culverts) is planned within 200 feet of the River.

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

None.

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

No.

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

Yes. Most of the proposed work is situated in the River floodplain (see Site Plan).

- 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.

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.

Although a permanent restroom facility (currently only a vault toilet) requiring a septic tank may be built in the future, there are no immediate plans to build this facility.

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.

A small amount of stormwater runoff may occur from proposed structures (viewpoints). The amount is expected to be inconsequential. Runoff in trail areas is expected to infiltrate or be filtered by adjacent vegetation. A low impact stormwater design was constructed in earlier project phases.

- 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:

Erosion Control protection measures will be in place during construction.

4. Plants

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

X deciduous tree: alder, maple, aspen, other: **cottonwoods, willows, poplars**

— evergreen tree: fir, cedar, pine, other

X shrubs: **wild rose, red-osier dogwood, etc.**

- grass
- pasture
- crop or grain
- wet soil plants: catabil, buttercup, bullrush, skunk cabbage, other: **reed canary grass, smooth's rush etc.**
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation: **(invasives-blackberries, etc.)**

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

Invasives and poplars.

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

Ute ladies' tresses are listed as threatened. Showy stickseed and Wenatchee Mountains checker – mallow are listed as endangered. Special status species (state sensitive) are giant hellebore, adder's tongue and chaffweed. Ute ladies' tresses have been observed in a few small areas on and adjacent to the site. None of the special status species have been observed on the Phase 4 site.

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

Cottonwoods, some conifers, live-stake willows and other native riparian vegetation will be planted for habitat enhancement. Approximately 1.35 acres of riparian habitat restoration will occur along the shoreline and approximately 5.7 acres of upland shrub-steppe habitat will be restored. Protective measures for threatened or sensitive plant species will be in place prior to and after construction, including temporary orange fencing (construction) and pine rail fences (after construction).

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: shorebirds, waterfowl, etc.
mammals: deer, bear, elk, beaver, other: rabbits, raccoons, coyotes, , etc.
fish: bass, salmon, trout, herring, shellfish, other: steelhead

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

Steelhead, (Threatened), Bull Trout (Threatened), Spring-run Chinook Salmon (Endangered), Marbled Murrelets (Threatened), Northern Spotted Owl (Threatened), Canada Lynx (Threatened), Grizzly Bear (Threatened) and Gray Wolf (Endangered). Steelhead, Bull Trout and Spring-Run Chinook Salmon are on or near the site. Marbled Murrelets, Northern Spotted Owls, Canada Lynx, Grizzly Bears and Gray Wolves have not been observed in close proximity to the site.

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

Yes. The Columbia River and Beebe Springs Creek are migration routes for fish and wildlife.

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

Restoration of riparian and other habitat to protect and enhance fish and wildlife species is a primary objective of the project and will occur along the Columbia River and uplands. Protective measures for fish and wildlife will be in place prior to construction. A BA Addendum evaluating effects to listed species has been prepared for the project.

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.

Electricity for some site uses (concession stand, potential future restroom facility), although there are no immediate plans for these facilities.

- 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:

Energy efficient and recycled materials will be used where feasible in project construction.

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.

Because of previous pesticide use on-site (former orchard), some risk of exposure to pesticide residue in soils would continue.

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

If accidents occur during construction or visitor use, emergency services might be needed.

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

The contractor will be required to have health and safety and spill prevention plans in place prior to construction. Protective measures for excavated soils will be in place prior to construction.

b. Noise

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

US 97 is adjacent to the site.

- 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.

There will be minimal noise from construction activities on-site.

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

Construction vehicles will operate only during approved construction working hours.

8. **Land and shoreline use**

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

The site is vacant but with some Phase 2 and 3 improvements in place. The Chelan Hatchery is across US 97 from the site. One residence is situated near the hatchery. The adjacent properties are mostly vacant.

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

Yes. The site was previously used as an orchard.

- c. Describe any structures on the site.

None.

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

No.

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

The current zoning (from 2007 rezone) is RP (public lands and facilities).

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

The current land use designation is Public Lands and Facilities.

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

The site is designated as Rural by Chelan County.

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

Yes. There are wetlands and riparian buffers on-site associated with the Columbia River (Lake Entiat).

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

None would reside on-site. There may be 1-8 employees working on-site at various times during the year.

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

None.

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

None needed.

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

The project (Phase 4 and future phases) will be coordinated with Chelan County.

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 needed.

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?

No structures are proposed in Phase 4.

- 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 needed. The project will improve viewing opportunities and the aesthetics of the views from Highway 97.

11. Light and glare

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

There may be a small amount of light and glare from vehicles on-site during maintenance activities.

- 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:

The site would be open to the public only during daylight hours, and maintenance activity will be kept to a minimum.

12. Recreation

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

Boating, fishing, wildlife viewing, hatchery viewing, and nearby park (Chelan County PUD).

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

No.

- 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 design will result in enhanced recreation 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.

Site 45CH216 encompassing the site was determined to be eligible for listing on the National Register of Historic Places (traditional cultural property listing is yet undetermined).

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

Cultural Resource Reports (2005, 2007, 2010) noted artifacts of archaeological and cultural importance in the vicinity and on-site (Memorandum of Agreement prepared for Phases 2 and 3). An Archaeological Investigation at Beebe Springs (Site 45CH216) Report was prepared in 2010, and shows some resources in the upland area of the Phase 3 portion.

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

A Phase 3 Memorandum of Agreement was issued and submitted through the JARPA process. An Archaeological Investigations Report (2010) was prepared. Phase 3 scoping was completed with input from the Colville Tribes and that input will continue in Phase 4. Archaeological monitoring will occur during the construction phase of Phase 4, and if cultural resources are uncovered, work will stop and the appropriate agencies and tribes will be notified. In addition, the northern edge of the site will be fenced off to help protect known cultural resources.

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 served by US 97.

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

No. The nearest transit is in Chelan, a few miles away.

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

40 parking spaces were constructed in Phase 2, and no additional parking is planned.

- 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. A new access was constructed from US 97 in Phase 2.

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

The site lies adjacent to the Columbia River (Lake Entiat). On one side it is bordered by US 97 and the nearby Cascade and Columbia River Railroad Line.

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

There would be approximately 20-40 vehicular trips per day. Peak volumes in the summertime will vary during the day.

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

None needed.

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.

There may be a small increased need for emergency services noted above.

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

The need is low, but any anticipated specific service need will be coordinated with surrounding service providers.

16. Utilities

- a. Circle 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 additional utilities are proposed at this time.

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.

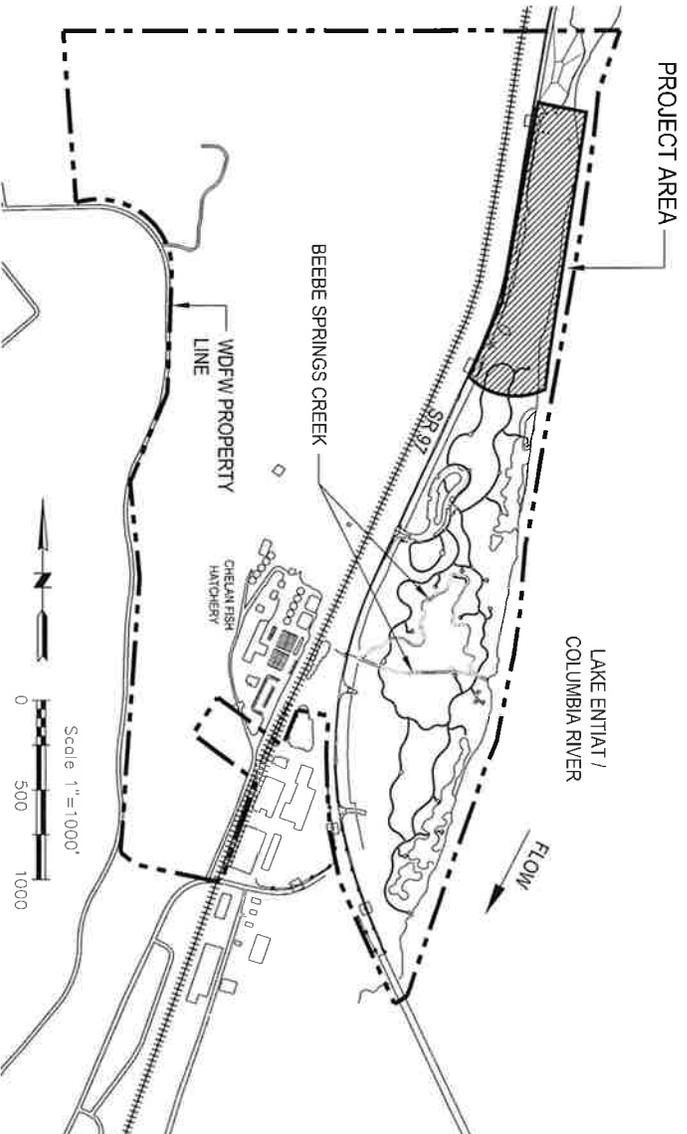
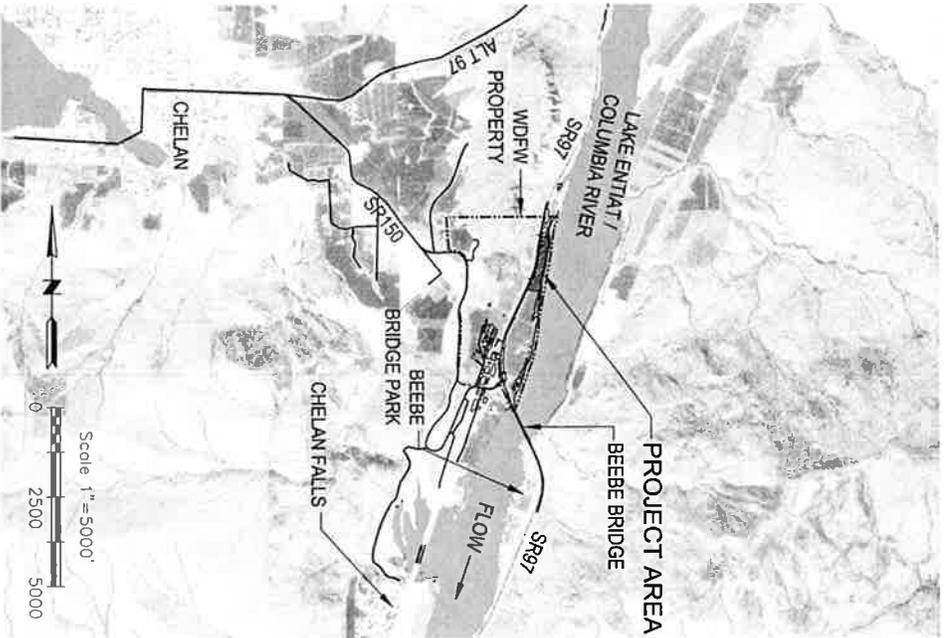
Signature: 

Date Submitted: 11/21/2011

Beebe Springs Natural Area Phase 4

List of Sheets:

- 1 Site Vicinity Maps
- 2 Existing Conditions
- 3 Demo, Clearing and Grubbing, TESC
- 4 Layout, Grading, and Planting Plans
- 5 Plant List and Details
- 6 Site Feature Details
- 7 Channel Plan and Details
- 8 Section at Existing Culvert



WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

BEEBE SPRINGS NATURAL AREA PHASE 4

REFERENCE #:

ADDRESS: SR 97
Cheilan, WA 98816

SHEET 1 OF 8: SITE VICINITY MAPS

PURPOSE: DEVELOP A NATURAL AREA THAT WILL INCLUDE SALMON AND WILDLIFE ENHANCEMENT/ RESTORATION AREAS AND TRAILS

DATUM: NGVD 29

ADJACENT PROPERTY OWNERS: WSDOT, Cheilan County PUD, DNR

LATITUDE: 47° 49' 14" N
LONGITUDE: 119° 58' 20" W

PROPOSED: BEEBE SPRINGS NATURAL AREA PHASE 4
IN: CHELAN COUNTY
AT: CHELAN FISH HATCHERY
COUNTY OF: CHELAN **STATE:** WA
APPL. BY: WASHINGTON DEPARTMENT OF FISH AND WILDLIFE
DATE: JUNE 30, 2011
REVISED:

PREPARED BY:
J.A. BRENNAN ASSOCIATES, PLLC