

# **SEPA ENVIRONMENTAL CHECKLIST**

## ***Purpose of checklist:***

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

## ***Instructions for applicants:***

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

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.

## ***Instructions for Lead Agencies:***

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

## ***Use of checklist for nonproject proposals:***

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B plus the [SUPPLEMENTAL SHEET FOR NONPROJECT ACTIONS \(part D\)](#). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in Part B - Environmental Elements –that do not contribute meaningfully to the analysis of the proposal.

## ***A. Background*** [\[HELP\]](#)

1. Name of proposed project, if applicable: Stillman Creek Restoration

2. Name of applicant: Celina Abercrombie, Chehalis Basin Strategy Manager, Washington Department of Fish and Wildlife
3. Address and phone number of applicant and contact person: PO Box 43200, Olympia, WA 98504-3200, 360-628-2589
4. Date checklist prepared: February 8, 2022
5. Agency requesting checklist: WA Department of Fish and Wildlife
6. Proposed timing or schedule (including phasing, if applicable):
- Spring 2022: Site preparation and staging  
Summer 2022: In-water work to begin  
Summer 2023: In-water work to be completed  
Start Date: May 2022 to December 2023
7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

The Stillman Creek project is one of five reach-scale river restoration projects implemented through the Aquatic Species Restoration Plan under the Chehalis Basin Strategy. Other projects include the Skookumchuck River (completed in 2020), the East Fork Satsop River (scheduled for completion in summer 2022), the Wynoochee River (scheduled for completion in summer 2022), and the South Fork Newaukum River (TBD). These restoration projects involve acquiring land for conservation and habitat protection, placement of large wood and construction of off-channel habitat features, and planting native riparian and upland vegetation along with invasive species treatment.

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

- South Fork Chehalis Sub-Basin Reach Assessment Report, September 2018
- Stillman Creek EAR—DRAFT Final Design Report, November 2021
- Stillman Creek Wetland Delineation Report, August 2019
- JARPA, October 2021
- Cultural Resources Report, April 23, 2020
- Draft Supplemental Cultural Resources Survey Report, December 2021
- No Effects Memo for ESA listed species, January 10, 2021
- Final Design Report, January 28, 2022
  - Attachment A Design Plans/Drawings
  - Attachment B Project Specifications
  - Attachment C Plant Supplier List
  - Attachment D Floodplain Impacts Memo
  - Attachment E Habitat Suitability Analysis Maps
  - Attachment F Opinion of Probable Construction Costs
  - Attachment G Large Wood Structure Memo
- Ordinary High Water Report, January 2019

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.

Lewis County Shoreline Development Permit Exemption  
Lewis County Floodplain Development Permit (pending)  
Lewis County Grading and Building Permit (TBD)  
HPA (pending)

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 is designed to restore in-channel, floodplain and riparian processes. The Stillman Creek project is one of five reach-scale river restoration projects implemented through the Aquatic Species Restoration Plan under the Chehalis Basin Strategy. This restoration project involves acquiring land for conservation and habitat protection, placement of large wood and construction of off-channel habitat features, and planting native riparian and upland vegetation along with invasive species treatment.

Work will be conducted in the 100-year floodplain with the exception of riparian restoration and a cabin relocation. Approximately 2 miles of in-stream channel will be treated including placement of large wood, side channel excavation, floodplain reconnection, and riparian and upland plantings totaling:

- Riparian restoration/enhancement – 10 acres and over 6,000 trees planted
- Side channel/off channel creation/enhancement – 3.8 acres
- In-stream structures added – 113 structures

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 project is located in western Lewis County, immediately west of the town of Boistfort, Washington. The project is generally situated in Township 12N, Range 04W, Sections 04, 11, 12, 14. The project extends from downstream of the Lost Valley Road bridge on property owned by Capitol Land Trust (approximately river mile 0-0.7) to the Pe Ell McDonald Road bridge (river mile 2.6). The project area includes Stillman Creek and adjacent riparian areas.

Stillman Creek River Miles and Parcel Numbers

RM 2.6-1.6, River Left - 16188000000, 16182000000, 16176000000, 16189004000, 16176001000  
RM 2.6-2.4, River Right - 16183004008  
RM 2.2-1.9, River Right and River Left - 16175000000  
RM 1.5-0.7, River Right and River Left – 16150000000, 16148000000  
RM 1.2-0.9, River Right and River Left - 16147000000, 16151022001  
RM 0.7-0.0, River Right and River Left - 16025002000

## **B. Environmental Elements** [\[HELP\]](#)

### **1. Earth** [\[help\]](#)

#### 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)?

The river has incised through the alluvium creating a near 100% slope to the bank and exposing bedrock material (clay, silt, sand and gravel layers). Some banks measure up to 15 ft in vertical height.

#### 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 agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

The project site consists of ~36% chehalis silty clay, ~21% Newberg fine sandy loam, ~19% aquic xerofluvents, overflow, ~15% Doty silt loam, ~5% Winston Gravelly loam (0 to 8 % slope), ~3% Galvin silt loam (0 to 8% slope) and 1% Melbourne loam (15 to 30 % slope). The Lewis County zoning map designates the project site as a combination of agricultural resource lands and forest resource lands.

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

A LIDAR analysis from 2017 revealed no mass wasting or landslides in the immediate vicinity of the project site. This analysis did reveal these events >1 mi upstream from the project site.

#### e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

##### Excavation

The purpose of excavating is aquatic habitat restoration, geomorphic process recovery and riparian vegetation planting. Type includes native materials excavated from within the project channels, banks and floodplain. The total area is 8 acres and the approximate quantities are 28,392 CY (permanent) and 6,100 CY (temporary).

##### Filling and Grading

The purpose of filling is backfill for stability of large wood structures and proper hydraulic and habitat function. Type includes native and large wood materials. Total area is 1 acre and the approximate quantities are 3,750 CY for backfill and 3,290 CY of large wood material. Source of fill includes native materials from project channel and bank and large wood materials will be imported from off-site.

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

Localized erosion associated with side channel and alcove creation and enhancement, large wood installation and bank treatments is possible. To minimize impacts, best management

practices (check dams, silt fences, mulch, matting, etc.) will be implemented. Monitoring and management of erosion control features and practices will occur during construction.

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

None of the project site will be covered with impervious surfaces after project construction.

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

To minimize the impact caused by erosion during construction, temporary erosion control measures will be implemented and may include, but are not limited to, wattles, silt fences, jute matting, geotextiles and geosynthetic fabric. Check dams will be used if there is a potential for eroded sediment to enter the stream. Soil stabilization such as wood fiber mulch or straw may be used to reduce erosion of bare soil.

## 2. Air [\[help\]](#)

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

Beyond temporary emissions from equipment utilized during construction, there will be no long-term emissions that result from this 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:

Mobile equipment will utilize best management practices to reduce vehicle emissions on-site.

## 3. Water [\[help\]](#)

- a. Surface Water: [\[help\]](#)

- 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.

Stillman Creek, a perennial water body, flows along the entire extent of the project site. Its confluence with the South Fork Chehalis River is approximately .20 mile downstream from the project site. Additionally Lost Creek, an intermittent stream enters Stillman Creek at RM 0.2. Additionally twenty riverine/depressional wetlands totalling 3.2 acres were identified by Inter-Fluve in their wetland delineation report from 2019.

Table 3: Summary table of wetlands in the Stillman creek study area.

Wetland Name	DOE Wetland Type	DOE Wetland Category Rating	Approximate Size (acres)
A	Riverine	2	0.028
B	Riverine	2	0.119
E	Depressional	2	1.782
G	Depressional	3	0.100
H	Depressional	2	0.033
I	Depressional	2	0.054
J	Riverine	2	0.005
K	Depressional	2	0.005
L	Depressional	2	0.290
M	Depressional	3	0.057
N	Riverine	2	0.009
O	Riverine	2	0.125
P	Riverine	3	0.013
Q	Depressional	2	0.404
R	Depressional	2	0.047
S	Riverine	2	0.077
T	Riverine	2	0.043

Figure 1 Excerpt from Wetland Analysis

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.

The project includes side channel, alcove and bank excavation. Engineered log jams will also be placed throughout the project site both in Stillman Creek, excavated side channels and alcoves. Riprap will also be removed. A large wood structure will be placed upstream from the mouth of Lost Creek. Much of this excavation and structure placement will occur either over, in or adjacent to the water bodies mentioned above. See attachment for draft final design.

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.

Surface water fill and dredge

Large wood fill will be sourced off site and alluvial fill will be sources on site. Permanent excavation will create scour pools and this material will be used to backfill large wood structure. Dredge materials will include alluvium and top soil from side channel, alcove and bank excavation will be disposed of off site. Temporary removal of alluvium will occur to facilitate installation of wood and this material will be replaced at it's original location to serve as ballast.

Water Body	Activity	Amount of material
Stillman Creek	Large Wood Fill	1,230 CY
	Excavation for install—temporary	2,770 CY
	Excavation for install—permanent	3,700 CY
	Alluvial Fill for ballast	2,760 CY
	Off-channel excavation	30 CY

	Riprap removal	~63 CY
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Wetland fill and dredge

Large wood fill will be sourced off site and alluvial fill will be sources on site. Dredge materials will include alluvium and top soil from side channel, alcove and bank excavation. Clean alluvium will be used as back fill for large wood structures and alluvium and top soil mixtures will be disposed of off site. Temporary removal of alluvium will occur to facilitate installation of wood and this material will be replaced at it's original location to serve as ballast.

Water Body	Activity	Impact Amount (volume and area)
Wetland G	Excavate off-channel feature	310 CY/3830 sf
Wetland M	Excavate off-channel feature	15 CY/270 sf
	Large wood fill	10 CY/150 sf
	Excavate for large wood installation—permanent	10CY/125 sf
	Excavate for large wood installation—temporary	10 CY/500 sf
Wetland A	Large wood fill	10 CY/150 sf
	Excavation for large wood install—permanent	20 CY/400 sf
	Excavation for large wood install—temporary	10 CY/750 sf
	Fill for large wood install	20 CY/200 sf

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

Work along the waterways and within the floodplain is expected to encounter surface and groundwater may require dewatering measures based on the final permit conditions. These measures may include pumps and installation of BMPs for removal of water from various parts of the work area identified. All water control shall meet the appropriate construction permit conditions and requirements. Quantities are unknown.

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

Yes, the entire project area is within the 100 year floodplain.

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

The proposal does not involve any discharge of waste materials to surface waters.

b. Ground Water: [\[help\]](#)

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No groundwater will be withdrawn for this 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.

No waste materials will be discharged into the ground.

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.

No excess runoff will be produced from this project.

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

Sediment may discharge as a consequence of fill and dredge activities but best management practices will be in place to minimize impacts.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

The proposed project will alter drainage patterns by creating side channel and alcove features adjacent to the main channel of Stillman Creek. See Attachment A—Final Design Drawings Sheets 15-20 for more information.

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

Permanent measures that will impact water sources and drainage patterns on site include an expansion of wetted area on site due to the excavation of banks, side channels and alcoves. Construction measures will address work along waterways and within the floodplain by operating pumps to divert water and installation of control of water BMPs for removal of water from various parts of the work area.

4. **Plants** [\[help\]](#)

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

- deciduous tree: **alder, maple**, aspen, **cottonwood**, other  
 evergreen tree: **fir, cedar**, pine, other



- shrubs **willow, red osier dogwood**
- grass
- pasture
- crop or grain **hay**
- Orchards, vineyards or other permanent crops.
- wet soil plants: **cattail**, buttercup, bullrush, skunk cabbage, **reed canary, vetch, bulrush** other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

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

Limited riparian vegetation will need to be removed for construction access. Any vegetation that requires removal for construction will be reseeded and re-planted with native vegetation. Branches and slash generated from removal of vegetation for access will be incorporated into log and habitat structures and remain on site. Invasive vegetation species will be treated with both manual and chemical methods.

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

USFWS IPaC tool identified Kincaid's Lupine and Nelson's Checker-mallow as threatened species have the potential to occur near or adjacent to the project site.

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

The design plans delineate planting polygons; see sheets 46-49 of the design plans. Species will include a mix of native riparian plants along with first foods of tribal significance. The Lewis Conservation District will work with landowners to select plants from these lists the conform with their needs.

e. List all noxious weeds and invasive species known to be on or near the site.

Himalayan blackberry, Japanese knotweed, and thistle occur on or near the project area.

## 5. **Animals** [\[help\]](#)

a. List any birds and other animals which have been observed on or near the site or are known to be on or near the site.

Examples include:

birds: **hawk, heron, eagle, songbirds**, other:  
 mammals: **deer**, bear, **elk**, beaver, other:  
 fish: bass, **salmon, trout**, herring, shellfish, other \_\_\_\_\_  
**frogs and other amphibians**

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

No listed species are documented on or near the site.

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

The project area is within the Pacific flyway and migration area for numerous bird species.

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

The project proposes to enhance and restore in-stream and riparian buffer habitat primarily for the benefit of aquatic and semi-aquatic species. It is anticipated that multiple species of wildlife that utilize habitats and resources in and near the project reach will benefit from these actions.

e. List any invasive animal species known to be on or near the site.

None are known.

**6. Energy and Natural Resources** [\[help\]](#)

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 have any energy needs.

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

No, the completed project will not affect any energy use 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:

None.

**7. Environmental Health** [\[help\]](#)

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.

Fuel and fluids associated with construction equipment will be on site during project construction. Standard safety protocols for handling, storage, and operations will be adhered to. All equipment, tools and machinery used will be routinely inspected and maintained in good working condition at all times. BMPs including spill containment equipment will be available onsite.

1) Describe any known or possible contamination at the site from present or past uses.

There are no known sources of contamination at the site.

2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

There are no known hazardous chemicals or conditions at the site.

- 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

Fuel and fluids for construction equipment will be present during construction. Storage and handling of these materials and equipment refueling will occur at least 150 feet away from surface waters.

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

None.

- 5) Proposed measures to reduce or control environmental health hazards, if any: All construction will be implemented in accordance with permit conditions. Herbicide for invasive vegetation treatment will be applied by licensed applicators. BMPs will be implemented during construction including maintaining and inspection of equipment, and spill containment equipment.

#### *b. Noise*

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

The project site is very rural with minimal noise impacts from traffic and not likely to affect the proposed project.

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

Short-term noise will be generated by equipment and machinery used during construction. No long-term noise will result from this project. Construction will occur during normal daylight and working hours, and will occur for 90-120 days.

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

Construction equipment will not be left idling for extended periods of time, construction work hours will be limited to normal daylight hours.

### **8. Land and Shoreline Use** [\[help\]](#)

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The project area is currently used for agricultural and residential purposes. The uses on adjacent property include timber production, agriculture and residential. The project will not affect current land uses on nearby or adjacent properties.

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated,

how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

Small portions of the project area are working farmland. The project involves converting a small area of grazing area to riparian habitat (3.8 acres) on land owned by one of the project participants.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No, the proposal will not affect or be affected by surrounding farm operations.

- c. Describe any structures on the site.

Structures on the properties where restoration activities are proposed to occur include residential houses, outbuildings and utilities to support residential and agricultural uses in the project area. The Lost Valley Road and Pe Ell McDonald Road bridges are present within the project area.

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

No structures are proposed to be demolished.

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

Rural Development District-5, Rural Development District-20, Forest Resource Land, and Agricultural Resource Land

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

Rural (RDD) and Resource (FRL, ARL)

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

Rural Conservancy

- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Yes. Stillman Creek, Lost Creek and their associated buffers throughout the project area. Buffer adjacent to Stillman Creek is designated as critical aquifer recharge area. Right bank throughout the project and the downstream .4 mi on the left side is designated as moderate to high liquefaction susceptibility. Steep slopes greater than 15% are present within the project area along streambanks. The project area is part of the FEMA 100-year floodplain., Wetlands are present in the upstream portion of the project area.

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

The completed project will not change the current residence in the project area.

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

No people will be displaced as a result of this project.

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

N/A

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

The project has been developed in coordination with landowners and Lewis Conservation District staff. The project will enhance existing natural resources and habitats. No actions are being proposed that will alter the existing use or character of the project area.

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

No actions are being proposed that will alter the existing use or character of the project area. Agricultural areas temporarily impacted for access and construction will be re-seeded at the end of the project.

## 9. **Housing** [\[help\]](#)

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

N/A. No housing units are proposed for this project.

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

N/A. No housing units will be eliminated with this project.

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

N/A

## 10. **Aesthetics** [\[help\]](#)

- 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 engineered log jams will extend <10 ft above the existing ground surface. These structures consist of log piles interwoven or backfilled with woody slash material and other logs and secured with non-galvanized steel hardware. See design specs sheet 21-24.

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

The project proposes installing native trees and shrubs to enhance and restore existing riparian buffers.. A small area of grazing land will be converted to riparian buffer. Over time vegetation is projected to grow to heights of >80'. Once plantings mature they will enhance and become a part of existing forested or wetland views. See design specs sheet 46-49.

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

None, no adverse aesthetic impacts are anticipated.

### **11. Light and Glare** [\[help\]](#)

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

None. The project will not create light or glare.

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

N/A

- 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** [\[help\]](#)

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

All land adjacent to the project site is privately owned thereby limiting access. Weyerhaeuser provides limited access for recreational purposes on their land.

- 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:

None. The project is infrequently used by recreationalists.

### **13. Historic and cultural preservation** [\[help\]](#)

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

No buildings or structures greater than 45 years old have been identified or recorded. Of the archaeological resource sites identified in the APE none are recommended for listing on the NRHP.

- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

Evidence of pre-European occupation has been identified within the project area and includes predominantly small sites with scattered archaeology. See Cultural Resources Surveys in 2020 and 2022.

- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

WDFW consulted both formally and informally with tribes including the Chehalis Tribe, Cowlitz Indian Tribe, Hoh Tribe, Puyallup, Quileute, Skokomish Tribe, Yakama Tribe, Nisqually Tribe, Quinault Indian Nation, Shoalwater Bay Tribe, Squaxin Island Tribe, and Confederated Tribes of the Grand Ronde. Additionally, WDFW is also working with DAHP.

In April 2020 and December 2021, Dudek completed Cultural Resources surveys and reporting that incorporated findings from background research including investigation of historic maps, environment, previous resources, elevation studies, and geological landforms, and surface and subsurface field investigations of the proposed Area of Potential Effects, using standard professional methodology as well as specific guidance on methodology provided by WDFW. The report was circulated to tribes and agencies for review and input. To date, no specific feedback has been provided to WDFW. WDFW continues to engage with tribes and agencies during the design and permitting phase of the project.

- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

WDFW continues to engage with tribes and agencies during the design and permitting phase of the project. Prior to and during project construction, WDFW will continue to work with tribes and agencies to implement an Inadvertent Discovery Plan and protective measures in access/staging locations, and actively monitor during ground disturbing activities, as needed. WDFW is applying for a Section 404/Nationwide Permit 27 for Restoration through the U.S. Corps of Engineers, which includes Section 106 consultation with tribes and agencies in addition to ongoing State Executive Order 21-02 consultation and engagement.

#### **14. Transportation** [\[help\]](#)

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

The site is bound by Boistfort Rd to the east, Lost Valley Rd to the north and Pe Ell McDonald Rd to the south. Access to the creek and work areas from these thoroughfares will include the use of and/or construction of temporary access routes. See plan sheets 16-24.

- b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

No. The nearest service is located in Chehalis, WA approximately 14 miles away.

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?

N/A. The project will neither create or eliminate parking spaces.

- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

No.

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

No.

- f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

Less than one additional trip per day would result from this project and no traffic would be commercial/non-passenger vehicles. The only traffic would be infrequent but periodic project monitoring and maintenance.

- g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

During construction periodic log deliveries will occur, however any large equipment, machinery and vehicles will be parked off-street. During construction no significant impact to the movement of agricultural and forest products is anticipated. After construction is completed there will be no impact to agricultural or forestry operations.

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

None.

#### 15. **Public Services** [\[help\]](#)

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

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

N/A

#### 16. **Utilities** [\[help\]](#)

- 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 utilities are proposed for the project.



**C. Signature** [\[HELP\]](#)

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:  \_\_\_\_\_

Name of signee Celina Abercrombie

Position and Agency/Organization Chehalis Basin Strategy Manager, WDFW

Date Submitted: February 9, 2022