

# 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:

**Alder Creek Floodplain Enhancement Project**

2. Name of applicant:

**Confederated Tribes and Bands of the Yakama Nation**

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

**PO Box 151, Toppenish, WA, 98948**

**(509) 865-5121**

**Contact: Madeleine Eckmann**

4. Date checklist prepared:

**January 12, 2021**

5. Agency requesting checklist:

**Washington Department of Fish and Wildlife**

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

Milestone	Target Date
Cultural Resources Consultation Complete	3/1/2021
Project permits acquired	5/1/2021
Large wood transported to stockpile area	6/1/2021
Restoration Started (mobilization/clearing/grubbing)	6/1/2021
In-water work completed	8/15/2021
Revegetation complete	11/15/2021

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

**Under the guidance of the 2007 Salmon Recovery Plan and the 2017 Twisp to Carlton Reach Assessment we are working with WDFW to develop additional salmon habitat restoration projects in the reach that will benefit ESA listed salmon. The current Alder Creek Floodplain Restoration Project has been designed to work collectively with a project immediately upstream, the Golden Doe Large Wood Restoration project, to benefit ESA listed salmon. The Golden Doe Large Wood Restoration project will be constructed at the same time as the Alder Creek project and by the same contractor.**

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

- **Twisp to Carlton Reach Assessment (CCFEG, 2017)**
- **Alder Creek Concepts Report (2020)**
- **Upper Columbia Salmon Recovery Plan (UCSRB, 2007)**
- **Upper Columbia Biological Strategy (UCSRB RTT, 2017)**
- **Methow Sub-basin Geomorphic Assessment (USBR 2008),**
- **Alder Creek Wetland Assessment (2018)**
- **Alder Creek Botanical Report (2018)**
- **Report for the Methow River, Twisp to Carlton, Recreation and Safety Assessment (2018)**
- **Cultural Resource Survey and Report DRAFT (2020; Final expected March 2021)**

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.

- **Section 107 Historic Preservation Act consultation (Tribes and SHPO)**
- **Section 7 ESA consultation (USFWS and NOAA)**
- **County Shorelines and Critical Areas Permits (Okanogan County)**
- **State Hydraulic Project Approval (WDFW)**
- **US Clean Water Act Sections 401 and 404 permits (Army Corps of Engineers and State Department of Ecology)**

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 is a salmon habitat restoration project consistent with the Upper Columbia Salmon Recovery Plan (UCSRB, 2007) to assist in recovery of native run ESA listed spring Chinook and steelhead stocks. The project seeks to restore and enhance side channel habitats used by endangered fish stocks in the Methow River system and restore floodplain connectivity and natural processes that create and sustain quality fish habitat. This project was developed under the guidance of priority restoration actions recommended by the Updated Salmon Recovery Plan Biological Strategy (RTT, 2017) and the 2017 Twisp to Carlton Reach Assessment.**

**The primary goals of this project include: 1) Restoring winter and summer low flow connectivity to available peripheral and transitional habitats necessary for rearing juvenile spring Chinook and steelhead in the Methow River and, 2) increasing mainstem habitat complexity and channel roughness to increase and naturally sustain surface water connectivity with adjacent floodplain rearing habitats at all times of the year. The side channel will be created by select excavation through a 1,200 foot relic side channel scar. The restored side-channel will create over 2,400 linear of perennial side channel well connected to natural groundwater upwelling areas, providing excellent summer and winter thermal refugia for juvenile Spring Chinook and steelhead. The restored habitat will also provide improved foraging, cover opportunities, flood refuge and thermal refuge for rearing salmonids.**

**Log structures will be placed in the mainstem Methow River within the newly created side channel and the Alder Creek outlet to emulate natural wood accumulation processes, by creating cover and promoting pool formation. These structures are intended to provide direct habitat replacement for salmonid rearing and adult holding conditions that have been degraded by anthropogenic activities within the river and on the floodplain. Douglas-fir logs will be imported to the project site and used to create diverse aquatic habitats in the side channel and the mainstem.**

**Finally, a planting plan will be implemented after construction which will result in improved riparian habitat and will promote wetland development in the floodplain with improved inundation at all flows.**

**The project area will encompass roughly 30 acres of Methow River floodplain. Please refer to the project plans for more details about the project size.**

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. **Within the WDFW Methow Wildlife Area, along the Twisp-Carlton Road and Okanogan County River Mile 33 of the Methow River, approximately 5 miles SE of Twisp.**

¼ Section	Section	Township	Range
SE	3	32	22

**48°18'31" N/ 120°4'3" W**

**Parcel Numbers: 5130510000, 3222030040, 3322340232, 3322340231, 3222030041, 3322340233, 3322340211, 3222030029, 5130500000, 5130490000, 3222030029, 3322340213, 3322340263, 3322342001, 3322340010, 3322340215, 3322340262, 3322340261**

Please see the attached planset for more details

**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 site consists of very flat floodplain valley bottom. Access onto the floodplain from the county road is a steep slope for a short distance (~ 30% grade, for 50 feet).**

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.

**NRCS Soil Survey**

**274 – Ewall loamy fine sand, 0 to 15 percent slopes; Farmland Classification – Farmland of statewide importance**

**475 – Riverwash; Farmland Classification – Not prime farmland.**

**The site is not used for agriculture and is not irrigated. The proposal does include removal of some of these soils to create the side channel.**

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

**No**

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.

**The side channel and large wood structure areas will be excavated with heavy equipment. Approximately 15,000 cubic yards of excavated material will be removed from approximately 30 acres of floodplain. Imported fill material will not be necessary. Excess spoils will be hauled to an adjacent uplands site on WDFW property approximate 1 mile away from the restoration site.**

**Gravel will be imported (200 cubic yards) to backfill and help ballast the inlet log structure. This gravel will be imported from a licensed gravel yard.**

**See design set for a detailed grading plan and limits of disturbance.**

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
**Erosion is not likely to occur as a result of clearing, construction, or use because the site has very little slope. All finished cuts and fill areas will have side slopes at angles that are self-stabilizing and the side channel features will be further stabilized by placement of large wood structures.**

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

**None**

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:  
**During construction an Erosion/Sedimentation Control Plan will be enacted which will include protecting construction zones from potential erosion produced during construction or in the event of heavy rain storms. After construction plantings and mulch applications, including hogfuel, weed-free straw, and/or hydromulch will help stabilize disturbed soils to control erosion.**

## **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.

**Construction dust will occur during excavation, although the quantity is unknown. Consumed fuel emissions from all heavy equipment and pump engines will occur during construction as well. This quantity is unknown. After construction no further emissions will result from this proposal.**

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:

**We will use a water truck to spray down dusty areas along access routes and staging areas during construction to minimize dust impacts.**

### 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.

**Surface Water Body: Methow River – a perennial flowing river**

**Wetlands: There are some small unnamed wetlands on the floodplain**

**See the project plans for the exact waterbody and wetland locations**

- 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. Establishing the side channel connection to the Methow River and installing the log structures will require working directly within the river and on the riverbank in multiple locations. See the project plans for additional details.**

**We will also impact 0.265 acres of existing Cat. II and 0.04 acres of Cat. III wetland within the floodplain through this project. The project includes compensating for this wetland impact by directly replacing the impacted wetland with 0.6 acres of Cat. II created wetland adjacent to the side channel.**

- 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.

Activity and Location	Amount of material (cubic yards) to be removed (or placed) from waterbody	Area (SF) and/or Length (LF) to be impacted	Duration of impact
Side channel inlet cofferdam	N/A	175 linear feet, 3350 sq. feet impounded area	30 days
Side channel excavation (Inlet)	40 cubic yards	110 linear feet	Permanent
Inlet log structure – large wood placement	31 logs (93 cubic yards)	50 linear feet	Permanent
Inlet log structure – gravel backfill	Gravel backfill (200 cubic yards from licensed gravel yard)	50 linear feet; 1,700 sq. feet	Permanent
Side channel outlet cofferdam	N/A	30 linear feet	Permanent
Side channel excavation (outlet) – excavation	365 cubic yards	2270 sq. feet	Permanent
Alder Creek Large Wood – large wood placement	78 logs (220 cubic yards)	3500 sq. feet	Permanent
Swale excavation	2500 cubic yards	0.73 acres	Permanent

Excavate Wetland (Cat. II)		0.31 acres	Permanent
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4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

**No withdrawals or diversions are proposed. The proposal will remove some anthropogenically placed sediment plugs to restore a relic side channel. The proposed outcome will restore side channel and floodplain connectivity with the Methow River which will allow surface waters from the Methow River to access the project area. These areas will once again function as part of the Methow River water course.**

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

**Yes. The entire proposal lies within the 100-year floodplain of the Methow River. The fill repository is outside 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.

**No**

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 withdrawals or discharges to groundwater are planned under 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.

**None**

c. Water runoff (including stormwater):

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

**The project will not significantly change stormwater runoff dynamics at the site. Any runoff would still flow into the Methow River, although drainage patterns will be locally altered due to the proposed side channel.**

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

**Yes, however to mitigate for the risk, the contractor is required to produce a spill containment plan and have emergency materials accessible on-site in the immediate area of construction.**

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

**The new side channel will facilitate additional inundation outside of the side channel on the Alder Creek Floodplain. This is a goal of the project to facilitate the creation of additional wetlands. This will not create any downstream flood risk to infrastructure. Please see the attached design report regarding the hydraulic modeling for this project.**

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

**The proposed grading plan is designed to create a perennial side channel in the existing floodplain without causing adverse impacts to land uses or infrastructure upstream or downstream of the project site. Hydraulic modeling of proposed conditions indicates that the project will increase surface water on the project site. See attached design report regarding the hydraulic modeling for this project.**

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

- a. Check the 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
- Orchards, vineyards or other permanent crops.
- 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?

**Most of the project impacts will affect non-forested portions of the floodplain composed mainly of non-native grasses. Some small/young deciduous trees (aspen, birch, and alder) will be removed to construct the side channel. The existing mature trees and shrubs are important for providing shade to the side channel so impacts to mature vegetation will be minimized. All woody debris and shrubs removed by the project will be incorporated as habitat into the side channel.**

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

**A vegetation survey was done for the entire project area and no state or federally listed plant species were found in the project area.**

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

**Successful establishment of native plant cover in the project zone is a major project priority. A detailed native plant restoration plan has been developed for this project and is available upon request. Extensive planting of native trees, shrubs, grasses and forbs, as well as native plant and wetland soil salvage will be conducted as part of this project.**



- e. List all noxious weeds and invasive species known to be on or near the site.  
**A vegetation survey was done for the entire project area and some noxious weeds were found to occur in frequently disturbed areas near the project site. For a detailed list of noxious weeds please refer to the Botanical Report for the Alder Creek Restoration Project (2018).**

**We will conduct vegetation maintenance activities at the project site for at least 3 years post construction to ensure establishment of the planted native vegetation, and to control noxious weed occurrences in the project zone.**

## 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.

**birds: hawk, heron, eagle, songbirds**

**mammals: deer, bear, beaver, bobcat, cougar, coyote**

**fish: salmon, trout**

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

**UC Steelhead, UC Spring Chinook, Bull Trout, Gray Wolf, Lynx**

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

**The site is known as a migration route for terrestrial wildlife, including mule deer, white tail deer, black bear, coyote, cougar, and bobcat. The Methow River is a migration corridor for anadromous fish and bull trout, and for water fowl.**

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

**Extensive replanting of disturbed habitat will occur. We will be introducing new large woody debris into existing habitats which will also enhance the site's habitat value.**

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

**Brook trout, an invasive fish, are abundant on the floodplain in the outlet of Alder Creek.**

## 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.

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

- 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.

**There are no abnormal risks. Risks are constrained to on-site construction activities during the construction phase. As always, construction equipment could spark a fire, or temporarily spill contaminants via equipment leaks or broken hoses.**

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

**None known**

- 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.

**None known**

- 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.

**None**

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

**No special emergency services will be required for this project**

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

**A hazardous materials spill prevention plan will be created and followed by the construction contractor to ensure construction equipment leaks and spills do not create environmental health hazards.**

### b. Noise

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

**None**

- 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.

**In-water work window for this project is July 1- July 31 and WDFW has granted an extension through August 15. Work within the ordinary high water mark will be completed within this timeframe. We anticipate less than two months of construction related noises will be generated through this project. Noise will be caused by truck traffic and heavy equipment operations during the day, including running of trash pumps used to dewater work zones. Most noise associated with the project will occur between 6 am and 9 pm on normal work days, however some**

**weekend days may have construction activities occurring during the construction phase. No long-term noise will occur as a result of this project.**

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

**None**

## **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 site is currently used as recreational waterfront, wildlife habitat, and natural river corridor. The proposal 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?

**No**

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**

c. Describe any structures on the site.

**There are no structures on the site**

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

**No structures will be demolished**

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

**Methow Review District-Valley Floor 5**

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

**Rural**

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

**Conservancy**

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

**Yes- 100 yr floodplain, wetland and shorelines**

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

**None**

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:

**Direct coordination with land management agencies in the area**

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

**None**

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

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

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

**None**

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

**None**

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

**None**

## **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**

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

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

**Hiking, fishing, rafting, hunting**

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**

## **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.

**After conducting a cultural resources inventory of the entire project area, no known buildings, structures, or sites eligible for the National Register of Historic Places (NRHP) or state and local preservation registers were recorded.**

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.

**Archaeologists from the Yakama Nation and Archeological Services, LLC conducted a literature review and field survey of the entire APE and submitted a report to BPA for section 106 compliance. No items of cultural importance were identified.**

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.

**A full federal Section 106 consultation has been conducted through BPA as the lead agency. Cultural Resource staff has surveyed the project site and written a cultural resource report for the consultation.**

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.

**A full cultural resource survey and consultation with SHPO and affected federally recognized tribes is expected to be completed in February, 2021. This consultation has closely involved all tribes and consulting parties throughout the process and any concerns about research designs or potential impacts have been thoroughly addressed. No sensitive resources were discovered and we do not expect any new**

concerns to be brought forward. Regardless, we will follow the recommendations provided by SHPO and the tribes.

#### 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.  
**Site access is provided directly off of the Twisp-Carlton County Rd.**
- 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**
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?  
**None**
- 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?  
**None**
- 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.  
**No**
- h. Proposed measures to reduce or control transportation impacts, if any:  
**During construction heavy equipment will need to make tripson the county road between the spoils depository, the large wood staging area and the restoration area on the floodplain. The section of county road that will be used for this work is a 0.6 mile section, and the contractor will be required to implement traffic control whenever this work is occurring.**

#### 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.  
**None**

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

- a. Circle utilities currently available at the site:  
**None**
- 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**

**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: \_\_\_\_\_ *M. Eckmann* \_\_\_\_\_

Name of signee Madeleine Eckmann

Position and Agency/Organization Habitat Biologist – Yakama Nation Fisheries

Date Submitted: 1/24/2021