

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: [\[help\]](#)

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: [\[help\]](#)
Shillapoo Wildlife Area North Unit
2. Name of applicant: [\[help\]](#)
Washington Department of Fish and Wildlife (WDFW)

3. Address and phone number of applicant and contact person: [\[help\]](#)

Contact: Daren Hauswald
2108 Grand Boulevard
Vancouver, WA 98661
Phone: (360) 906-6756
Email: Daren.Hauswald@dfw.wa.gov

4. Date checklist prepared: [\[help\]](#)

April 13, 2017

5. Agency requesting checklist: [\[help\]](#)

WDFW, Clark County

6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

Project construction is proposed for July 2017 and would occur over a 2-week period.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain. [\[help\]](#)

No

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. [\[help\]](#)

A wetland delineation / rating and cultural resources assessment of the project area has been completed. Numerous habitat and wildlife assessments of the larger North Unit have been completed by WDFW.

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. [\[help\]](#)

No.

10. List any government approvals or permits that will be needed for your proposal, if known. [\[help\]](#)

USACE CWA Section 404 permit; WDOE Water Quality Certification; Clark County land use permits

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

The project would be located within the Shillapoo Wildlife Area North Unit, along the south-central portion of an 81-acre emergent marsh seasonal wetland managed by WDFW as forage for wintering waterfowl and to provide recreational hunting opportunities. The project would replace an existing fixed concrete riser with an in-line water control structure with flashboards to allow water levels in the wetland to be managed to favor native plant establishment and control of reed canary grass. The project would also repair and relocate a failing berm to restore the ability to impound water within the wetland and to provide reliable access for maintenance and farm vehicles within the Wildlife Area. A spillway would be constructed on the west side of the new berm to ensure high water events in the

wetland do not overtop the new berm and/or damage the water control structure. The fence line would be moved to parallel the new berm to further exclude livestock from the wetland. The project area encompasses about 1 acre (impacts would occur within a smaller footprint of the project area).

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. [\[help\]](#)

The project would be located within the North Unit of the 2,370 Shillapoo Wildlife Area (Figure 1). The existing riser is located at latitude 47.723192 N, longitude, 122.743331 W. The project area spans two parcels (18327800, 19128000) within Section 24, Township 3N, Range 1E of the Vancouver, WA USGS 7.5-minute quadrangle. The project area is accessible from a gated berm to the east of Lower River Road (Mile Post 10.1). A site plan is attached. Clark County

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)? [\[help\]](#)

1-2 percent (outside of existing intermittent drainage, where slopes may be up to 2:1 [50%])

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. [\[help\]](#)

Sauvie silty clay loam. Farmland classification (per NRCS web soil survey): "prime farmland if drained and either protected from flooding or not frequently flooded during the growing season". None of the soils on site are classified as associated with agricultural land of long-term commercial significance.

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. [\[help\]](#)

Erosion apparent along existing berm that separates wetland from intermittent drainage. This erosion is attributable to livestock use, and seasonally high water levels in the winter 2017.

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. [\[help\]](#)

Excavation would be required to remove the existing riser and berm; to excavate the new spillway; and to obtain soils from the borrow area. Fill would be associated with relocation of the new berm. Excavation would affect 0.09 acre within the project area; fill associated with the new berm would affect an additional 0.03 acre. All fill to construct the new berm would be sourced onsite (i.e., from the existing berm, borrow area, and spillway).

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

[\[help\]](#)

Unlikely. All grading and excavation activities would be completed in the dry, with standard construction best management practices (BMP) implemented to minimize erosion potential. The site is largely flat, so erosion on steep slopes would not occur. Once constructed, the relocated / reconfigured berm would include a spillway to ensure high water events in the wetland do not overtop the new berm and/or damage the water control structure. Rock would also be applied to the top of the berm to minimize the potential for erosion from limited vehicle use and/or high water events.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? [\[help\]](#)
None.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)
All construction would be completed during the summer when the site is dry. Construction best management practices, such as the use of silt fence or wetland mats, may be used as necessary 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. [\[help\]](#)
Limited emissions would be associated with the use of heavy equipment (excavators, trucks) during construction. Trucks, maintenance vehicles, or mowers would also periodically access the project area – i.e., 1-2 times per month at most.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. [\[help\]](#)
Livestock (cattle) graze in the pasture adjacent to the project area, and north of the North Unit. Odors associated with livestock can be apparent in the project area.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any: [\[help\]](#)
All heavy equipment would be outfitted with appropriate emission control measures, and would not be allowed to idle for extended periods of time.

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

- a. Surface Water:

- 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. [\[help\]](#)
The existing riser and berm are located along the south-central boundary of an 81-acre seasonal emergent marsh wetland. A wet pasture area that also meets the parameters of a state / federal jurisdictional wetland is located adjacent to the emergent marsh wetland. A seasonal intermittent drainage bisects the project area, and serves as the outlet / downstream drainage for the seasonal wetland. This drainage follows a series of channelized ditches downstream of the project area, but does not leave the North Unit (or otherwise flow back to a perennial stream or river).
- 2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans. [\[help\]](#)

Yes. Relocation/replacement of the existing riser and berm would require work within the emergent wetland, wet pasture, and intermittent drainage. A site plan is attached; Figure 2 illustrates the location of waters / wetlands in the vicinity of the project area.

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

Up to 140 CY of fill would be placed within 0.03 acre of an intermittent drainage and adjacent upland pasture. Fill would be associated with reconstruction of the new berm. No fill would be placed in wetland areas.

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

No. The project would not require surface water withdrawals or diversions.

- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan. [\[help\]](#)

Yes. The entire Shillapoo Wildlife Area, including the project area, are located within the historic floodplain of the Columbia River and Lake River.

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

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

b. Ground Water:

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

No groundwater would be withdrawn under the project, and no water would be discharged to groundwater aquifer (outside of natural percolation of water between the wetland and groundwater aquifer).

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

Not applicable.

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. [\[help\]](#)

Not applicable.

- 2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)

Not applicable.

- 3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. [\[help\]](#)
No.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any: [\[help\]](#)
Not applicable.

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

- a. Check the types of vegetation found on the site: [\[help\]](#)

☒ 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

Vegetation within the emergent marsh wetland in the project area is dominated by reed canary grass, but also includes a mix of native wetland vegetation, such as wapato, water plantain, and smart weed. The wetland is surrounded by pasture that is leased for cattle grazing. Vegetation within the pasture is predominantly reed canary grass and Himalayan blackberry interspersed with a mix of pasture grasses (e.g., timothy) and moss. A seasonal intermittent drainage bisects the wetland. Isolated Oregon ash and black hawthorn are located along the drainage, as well of the periphery of the wetland.

- b. What kind and amount of vegetation will be removed or altered? [\[help\]](#)

Pasture grasses and some emergent marsh vegetation would be temporarily removed during excavation; these areas would be allowed to revegetate after construction is complete. Upland pasture grasses along the banks of the intermittent drainage would be permanently displaced by the new berm. No trees or shrubs would be impacted..

- c. List threatened and endangered species known to be on or near the site. [\[help\]](#)

No threatened or endangered plants are known to occur on site.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: [\[help\]](#)

The top 6-inches of vegetation within disturbance areas would be stripped and replaced after construction is complete. Improved water management capabilities resulting from the project would allow WDFW to use varying water levels to promote establishment of native wetland vegetation within the managed unit.

- e. List all noxious weeds and invasive species known to be on or near the site. [\[help\]](#)

Reed canary grass, Himalayan blackberry.

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. [\[help\]](#)

Examples include:

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

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

fish: bass, salmon, trout, herring, shellfish, other _____

The project site provides habitat for, and is managed by WDFW to support, a variety of bird species, including raptors (owls, hawks, eagle), shorebirds, and waterfowl, as well as small mammals. Fish do not currently have access to the project site.

- b. List any threatened and endangered species known to be on or near the site. [\[help\]](#)

No threatened or endangered wildlife or fish are known to occur on the site.

- c. Is the site part of a migration route? If so, explain. [\[help\]](#)

Migrating waterfowl and shorebirds use the Wildlife Area as wintering and/or breeding habitat.

- d. Proposed measures to preserve or enhance wildlife, if any: [\[help\]](#)

Construction would be completed outside of the nesting season to avoid impacts on birds. The site is hydrologically isolated from all perennial flowing water, and construction would occur in the dry, so there is no potential for turbidity or sediment delivery to streams. Improved management capabilities resulting from the project would improve foraging habitat for waterfowl and shorebirds, as well as native wetland vegetation diversity and extent, which may benefit other native wildlife species..

- e. List any invasive animal species known to be on or near the site. [\[help\]](#)

None

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. [\[help\]](#)

The project has no long-term energy needs.

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

If so, generally describe. [\[help\]](#)

The project would have no effect on the potential use of solar energy 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: [\[help\]](#)

Not applicable.

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. [\[help\]](#)

- 1) Describe any known or possible contamination at the site from present or past uses.
The project site was historically in agricultural production, where fertilizers or other chemicals may have been used. No specific areas of contamination are known to occur.
- 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. [\[help\]](#)
There are no existing hazardous chemicals/conditions that might affect project development and design.
- 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. [\[help\]](#)
Petroleum products (fuel, lubricants) would be used to operate heavy machinery during construction. No other toxic or hazardous chemical would be stored, used, or produced during project development, construction, or operation.
- 4) Describe special emergency services that might be required. [\[help\]](#)
No special emergency services would be required.
- 5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)
Standard worker and environmental health protection measures would be employed during construction, including use of appropriate safety gear (hard hats, ear protection) and dust suppression (as required). No other environmental health hazards are anticipated.

b. Noise [\[help\]](#)

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? [\[help\]](#)
Noise is limited to traffic on Lower River Road, uses on adjacent lands, such as the operation of farm equipment, and wildlife (e.g., flocks of Canada geese). Existing noise sources and levels would not affect the 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. [\[help\]](#)
Limited construction-related noise from use of heavy equipment would occur during construction. This noise would be short-term, and would only occur during daylight hours.
- 3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)
Work would only be completed during daylight hours. In addition, there are few (if any) sensitive noise receptors located in the vicinity of the project site.

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. [\[help\]](#)
The project area is located within the North Unit of Shillapoo Wildlife Area. The North Unit is managed by WDFW to protect and restore wetland habitats for migratory waterfowl, and to provide for recreational hunting opportunities. The pasture within the North Unit is leased for livestock grazing. Other adjacent property uses include other WDFW properties managed as wildlife habitat and for recreational uses (east and south) and farmland (north and west), including grazed pasture and

cropland. The project is proposed to improve current land uses on site (i.e., wetland habitat and hunting opportunities).

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

Prior to acquisition by WDFW, the project site was used as working farmland, likely for livestock and hay production. Currently, the pasture immediately adjacent to the emergent wetland is leased for grazing. The project would not convert agricultural land of long-term commercial significance to another use.

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

The project would not affect – or be affected by – surrounding working farm or forest land normal business operations.

- c. Describe any structures on the site. [\[help\]](#)

Infrastructure within the North Unit includes berms on the north and east sides, a locked tide gate on a slough to Lake River at the north end of the unit, various artificial drainage ditches, and limited water control infrastructure. Within the project area, an existing concrete riser (1-foot tall) is located along the south-central portion of the seasonal wetland. The riser is used to passively manage water levels within the managed unit - i.e., when water overtops the riser, it is conveyed through a 25-foot long culvert to a downstream drainage. Water within the wetland is impounded by a low-elevation earthen berm on the south side of the riser. The berm is approximately 65-feet long and is damaged / eroding along its length. It covers the culvert connecting the riser to the drainage and provides WDFW and the grazing lessee the ability to move vehicles and equipment across the drainage (it is not open to public vehicle use). A fence is installed around the wetland to exclude cattle from all but a small section of the wetland near the existing riser.

- d. Will any structures be demolished? If so, what? [\[help\]](#)

The existing concrete riser and associated culvert will be removed, and the existing earthen berm relocated.

- e. What is the current zoning classification of the site? [\[help\]](#)

Agricultural-Wildlife District (AG-WL)

- f. What is the current comprehensive plan designation of the site? [\[help\]](#)

AG-WL

- g. If applicable, what is the current shoreline master program designation of the site? [\[help\]](#)

Natural, Rural Conservancy Resource Land

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

Unknown (likely)

- i. Approximately how many people would reside or work in the completed project? [\[help\]](#)

None.

- j. Approximately how many people would the completed project displace? [\[help\]](#)

None.

- k. Proposed measures to avoid or reduce displacement impacts, if any: [\[help\]](#)

Not applicable.

- l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any: [\[help\]](#)

The project is a maintenance project that would not change the current use of the Wildlife Area.

- m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)

Not applicable.

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

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. [\[help\]](#)

None.

- c. Proposed measures to reduce or control housing impacts, if any: [\[help\]](#)

Not applicable.

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? [\[help\]](#)

The new berm would be about 6-feet high. It would be constructed of soil sourced on site and covered with a thin layer of rock for erosion control.

- b. What views in the immediate vicinity would be altered or obstructed? [\[help\]](#)

None. Views of the new berm would be comparable to the view of the existing berm. Neither berm obstructs view of or from the area.

- c. Proposed measures to reduce or control aesthetic impacts, if any: [\[help\]](#)

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? [\[help\]](#)

None. Not applicable.

- b. Could light or glare from the finished project be a safety hazard or interfere with views? [\[help\]](#)

No light or glare would be generated by the project.

- c. What existing off-site sources of light or glare may affect your proposal? [\[help\]](#)
None.

- d. Proposed measures to reduce or control light and glare impacts, if any: [\[help\]](#)
Not applicable.

12. Recreation [\[help\]](#)

- a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)
The North Unit, including the project area, is available for recreational hunting (during the regulated hunting season) and wildlife viewing. Additional hunting and wildlife viewing opportunities are provided on the adjacent South Unit of the Shillapoo Wildlife Area.
- b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)
No.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)
The project would be constructed outside of the hunting season, over a short period of time. Recreation would not be impacted. Improvements to habitat within the wetland resulting from the project may improve hunting and wildlife viewing opportunities in the future.

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. [\[help\]](#)
No.
- 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. [\[help\]](#)
The project area is located in the northern part of the Shoto Villages/Vancouver Lake Archaeological District (45DT101). Although included in the district, no archaeological resources have been recorded within the project area. A pedestrian survey of the project area, including excavation of four shovel test probes, was completed by Applied Archaeological Research, Inc. (AAR) in April 2017. No archaeological resources were identified during the survey, and AAR recommended that additional archaeological investigations were not warranted (given the close spacing of the probes and the likelihood that no archaeological deposits were encountered in the small project area).
- 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. [\[help\]](#)
The methods used to assess the potential impacts to cultural and historic resources are documented in Cultural Resources Report for the project (AAR 2017), and include review of records on file with DAHP using WISAARD, a pedestrian survey, and excavation and processing of four shovel test probes within all areas subject to ground disturbance.

- 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. [\[help\]](#)
No cultural resources are known to occur onsite. If an archaeological resource is inadvertently discovered during construction, work in the project area would stop until the resource is evaluated by a qualified archaeologist.

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. [\[help\]](#)
The project area can be accessed a berm restricted by a locked gate off Lower River Road. No additional access would be provided, or otherwise affected, by the project.
- 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? [\[help\]](#)
No. The C-Tran service area extends to about 5 miles south of the entrance to the project area along Lower River Road.
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)
Informal parking is provided off Lower River Road outside of a locked gate. No additional parking would be provided or eliminated by the project.
- 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). [\[help\]](#)
The project would not require any new or improvements to existing roads, streets, pedestrian, bicycles or state transportation facilities. Proposed improvements to the berm would maintain informal access for farm and maintenance vehicles across the project area, but would not be open to public vehicle use.
- e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
The project would not use water, rail, or air transportation.
- 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? [\[help\]](#)
4 trips per day during the morning (7 – 9 am) and evening (5 – 7 pm).
- 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. [\[help\]](#)
No.
- h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#)
None. Trips would be minimal and largely along Lower River Road, which has very little traffic.

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. [\[help\]](#)

The project would not result in an increased need for public services.

- b. Proposed measures to reduce or control direct impacts on public services, if any. [\[help\]](#)

Not applicable.

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

- a. Circle utilities currently available at the site: [\[help\]](#)

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system,
other _____

None. Not applicable.

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

No utilities are proposed under 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: _____

Daren Hauswald

Name of signee Daren Hauswald

Position and Agency/Organization Wildlife Area Manager, WDFW

Date Submitted: 4/17/17