

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: Prairie and oak Release, South Unit of the Scatter Creek Wildlife Area [\[help\]](#)
2. Name of applicant: Richard Tveten, Washington Department of Fish and Wildlife [\[help\]](#)
3. Address and phone number of applicant and contact person: 1111 Washington St SE, 5th

Floor Wildlife Program, Olympia, WA 98501

[\[help\]](#)

4. Date checklist prepared: November 28, 2017 [\[help\]](#)
5. Agency requesting checklist: Washington Department of Fish and Wildlife [\[help\]](#)
6. Proposed timing or schedule (including phasing, if applicable): [\[help\]](#)

| July 2018 | August-September, 2018 | September 2018 | October 2018 | November 2017 | Spring 2019 |
|--|---|---|--|---------------|--|
| Road construction (including rock hauling, rock placement, grading, etc.). Tree harvest and slash piling or removal. | Tree harvest and slash piling or removal. | Refurbish permanent roads and seed temporary roads. | Native species planting and weeding control. | Pile Burning | Native species planting and weeding control. |

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

No but the work may concur concurrently with a smaller timber thinning project that was permitted in the fall of 2017. [\[help\]](#)

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

Cultural Resource Survey [\[help\]](#)

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.

Forest Practices Application (12.4 acres of oak restoration and access road development)

Forest Land Conversion (25.4 acres of prairie restoration tree removal) [\[help\]](#)

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 Scatter Creek Wildlife Area is home to rare plants, animals, and plant communities of remnant South Puget Sound grasslands and oak woodlands. The site is of conservation concern due to degradation pressure from a number of threats, including invasive species and altered disturbance regimes. The project goal is to restore these rare habitats, emphasizing needs for

federal- and state-listed threatened and endangered species and WDFW's Species of Greatest Conservation Need.

The desired outcome is to perpetuate a legacy of prairie along with Oregon white oak savannah and woodland on the South Unit of the Scatter Creek Wildlife Area, which will enhance habitat for WDFW Species of Greatest Conservation Need. This project will remove most live and dead Douglas fir that have encroached on 25.4 acres of native prairie. The largest Douglas fir trees, most of them over 40 inches in diameter at breast height), however, will be retained on the prairie as wildlife trees. The project will also release 12.4 acres of Oregon white oak while maintaining a healthy riparian buffer. Oak release will be conducted through conifer harvest and snag creation of conifers following guidelines by Harrington and Devine (A Practical Guide to Oak Release, 2006. GTR #666, U.S. Forest Service, PNW Region). Douglas fir trees will be thinned in approximately 1.1 acres of the outer zone of the Scatter Creek riparian management zone where necessary to release oaks from overtopping conifers to improve their survival and growth. The core and inner zones will remain untouched.

On August 22, 2017, a wildfire burned 345 acres on the South Unit of Scatter Creek Wildlife Area including 61 acres of trees. Approximately 28 of the 37.8 acres that will be treated in this project were burned to varying degrees of intensity. In many areas with pure Douglas and mixed Oregon White Oak/Douglas fir, the fire killed an estimated 80-90% of the Douglas fir. It is too soon to determine oak mortality. While the fire was intense in some areas, it did not kill enough of the Douglas fir to release many of the oak trees or halt the encroachment of Douglas fir onto the prairie.

Topography within the alternate plan area is generally flat and gentle. As the fire had minimal impact on the well developed forest in the Scatter Creek riparian management zone, the project should pose minimal risk to Scatter Creek.

It is anticipated that harvest will be conducted between July and September of 2018. This project will be executed concurrently with a smaller project on the Northern Unit of the Scatter Creek Wildlife Area that was reviewed under SEPA and permitted in 2017. The smaller project was not completed in 2017 because it was too small to generate interest among contractors.

Following harvest, timber slash will be cut and chipped or burned. Other woody species (hawthorn, cascara, crab apple, Oregon ash, etc.) that could complicate future prairie maintenance activities will also be chipped or burned.

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 South Unit of Scatter Creek Wildlife Area is in Sections 35 and 36 of T 16N R 3W in Thurston County. The South Unit is on the north side of 183rd Avenue and west of Guava Street. There is a parking area near Guava Street. The project will treat oak woodlands and prairie edges that are being encroached upon by Douglas fir to the west of the parking lot on the south side of Scatter Creek.

Locator Map (along with project map and fire map) – See attachment.

B. ENVIRONMENTAL ELEMENTS [\[help\]](#)

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

- a. General description of the site: The project site is on relatively flat glacial outwash plain. Most of the site is native prairie. There is a transition zone of Oregon white oak between the prairie and the more moist parts of the site which include coniferous forest and wetlands associated with Scatter Creek. The oak woodland and prairie are being encroached by trees and invasive shrubs. [\[help\]](#)

(circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____
There are slopes of 20% on the wildlife area but the project area and ground immediately surrounding the project area is flat.

- b. What is the steepest slope on the site (approximate percent slope)? There are slopes of 20% on the wildlife area but the project area and ground immediately surrounding the project area is flat.

[\[help\]](#)

- 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. Soils are primarily Spanaway gravelly sandy loam, with some Spanaway-Nisqually complex. McKenna gravelly silt loam is in a small area, Cathcart gravelly loam is in a small area. The project will occur on Spanaway gravelly sandy loam which is a very well draining soil. [\[help\]](#)

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe. No [\[help\]](#)

- 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. A new 3,900 foot long road will be constructed on the western property line. An estimated 12 inches of rock will be added to build the roadway (up to 4,680 yards). An estimated 330 yards of 4" minus surface rock will be need to build a 500 foot long temporary road. Additional 4" minus surface rock may be needed to fill ruts on existing roads. Skid trails will be located on flat ground. Width of roads will be approximately 14 feet (21 feet for turnouts). The rock will likely come from nearby gravel pits in Grand Mound. WDFW will inspect the rock source prior to use by contractors for the presence of invasive weeds. Temporary roads will be designated routes on native soils as far from high quality, open prairie as feasible. Per Forest Practice Rules the temporary roads will be abandoned upon completion by seeding them and blocking access to them or will be maintained to Forest Practice standards.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe. [\[help\]](#)
Erosion is unlikely due to planning the work in the dry season, flat terrain the drainage characteristics of the soil. WDFW will seed the skid trails immediately after project completion to minimize weed invasion and erosion potential.

- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? 0% [\[help\]](#)
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: [\[help\]](#)
- i. A restoration plan will be developed for the skid trail and that will be included in the forest practices application. This will include initial seeding with sterile annual grasses and overseeding with native grasses and forbs.

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. The tree removal will likely be conducted over 2-3 months. We will be using a small contractor with limited equipment, but diesel smoke will be put into the air. [\[help\]](#)
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe. No [\[help\]](#)
- c. Proposed measures to reduce or control emissions or other impacts to air, if any: None [\[help\]](#)

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.

Scatter Creek, a perennial stream, is north of the project. Scatter Creek flows into the Chehalis River west of Rochester. [\[help\]](#)

- 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, trees will be thinned in approximately 1.1 acres of the outer zone (between 105 and 140 feet from creek) as allowed by Forest Practice rules [\[help\]](#)

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

None

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

No

5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.
No. [\[help\]](#)

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 [\[help\]](#)

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.
No [\[help\]](#)

2) Virginia 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.
Not applicable [\[help\]](#)

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.
As the soils are glacial outwash in origin, little runoff will occur in the project area. [\[help\]](#)

2) Could waste materials enter ground or surface waters? If so, generally describe. [\[help\]](#)
No

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: [\[help\]](#)

Sterile annual grass will be seeded in disturbed areas, followed by overseeding of natives. The annuals should germinate immediately after the first rains.

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

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

Douglas-fir along with a few Oregon ash, cherry and maple will be removed. Forest understory and prairie edge shrubs like vine maple, snowberry and Scot's broom will be crushed during harvest, especially on skid trails. These plants will be removed during slash cleanup via burning or chipping to make way for prairie restoration plantings. Approximately 1.07 acres of mostly hedgerow trees along the western fence line will be permanently replaced with a maintenance road.

The anticipated long-term result will be a 24.3 increase in prairie and oak habitat and the improvement of 12.4 acres of oak woodland.

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

NONE in the vicinity of the project tree removal areas, skid trails and haul routes. Several plants of state significance are within a mile from the project site, including *Wyethia angustifolia* and *Castilleja levisecta*. These are in the prairie habitat.

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

The project is intended to restore prairie, Oregon white oaks and restore the oak understory to native oak savannah and woodland species mix. Conifer removal is the first step in this process.

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

Scot's broom, various exotic grasses including tall oatgrass, reed canarygrass, sweet vernalgrass, bromes, orchardgrass, tall fescue, Timothy, Kentucky bluegrass, various species of bentgrass; ox-eye daisy, eat's ear, St. John's wort, Canada thistle, bull thistle, tansy ragwort, cudweed, creeping buttercup, Himalayan blackberry, sheep sorrel, cattail, dandelion and Vinca.

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 _____

birds: various songbirds, including savannah sparrow, Oregon vesper sparrow purple martin. Various warblers, thrushes, including

Swainson's Thrush.

mammals: pocket gopher, black-tailed deer, bear,

fish: Coho salmon, cutthroat trout and Olympic mudminnow.

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

A major focus at Scatter Creek is recovery of two endangered butterflies, the Mardon Skipper (state endangered), and Taylor's checkerspot (federal endangered), and habitat restoration for the Mazama Pocket gopher (federal threatened), and approximately 15 other species of greatest conservation need. Mazama pocket gopher are near the work area, as well as mardon skipper.

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

No, not on the prairie or oak woodlands where the project will occur. Fish migrate in Scatter Creek.

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

The project is intended to restore 24.3 acres of native prairie habitat for wildlife, including Mazama pocket gopher, Taylor's checkerspot, mardon skipper and other WDFW species of greatest conservation need in the prairie ecosystem. Removal of the conifers, will project the 12.4 acres of oaks, provide additional important habitat for mardon skipper and Mazama pocket gopher, as well as a number of other species of greatest conservation need in the project area. With removal of the conifers, WDFW will be able to strategically conduct integrated restoration with prescribed fire and enhance the understory. [\[help\]](#)

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

None 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. [\[help\]](#)

Not applicable

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. [\[help\]](#)

Not applicable.

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. [\[help\]](#)

Hazards common to small forestry operations will be present. Diesel vehicles, chainsaws,

etc. will be present. Herbicides will be used post harvest for weed control.

1) Describe any known or possible contamination at the site from present or past uses. [\[help\]](#)

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. [\[help\]](#)

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. [\[help\]](#)

NONE- Beyond herbicide, discussed above.

4) Describe special emergency services that might be required. [\[help\]](#)

Seargent Road Fire Department is 1 mile away

5) Proposed measures to reduce or control environmental health hazards, if any: [\[help\]](#)

Minimization of herbicide use and no applications unless needed to control exotics.

Avoidance of drift during application.

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

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

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. [\[help\]](#)

Short term noise from timber harvest machinery, vehicles, chain saws and potentially chippers.

3) Proposed measures to reduce or control noise impacts, if any: [\[help\]](#)

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. [\[help\]](#)

It is a Wildlife area, with walking, bird watching, and pheasant hunting in season. Surrounding properties are rural residential and one commercial hatchery. About a mile of trail will have to be closed during harvest. The project will be completed prior to the pheasant hunting season.

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? [\[help\]](#)

The site has been logged in the past. Future logging is possible for the site, including the oak woodland thinning to reduce crowding.

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: [\[help\]](#)

No

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

None

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

No

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

Open space

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

Open space

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

Natural

h. Has any part of the site been classified as a critical area by the city or county? If so, specify. [\[help\]](#)

The project area includes Oregon white oak and prairie which are classified under the Critical Area Ordinance by Thurston County. Scatter Creek and its associated wetlands are also considered Critical areas.

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: [\[help\]](#)

None

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

The property was purchased in part for recovery of threatened and endangered prairie, oak woodland, and wetland species and for recreation. The proposed measures are planned enhancement activities to help recover these species. The implementation of the restoration will ultimately lead to increased recreational use if species abundance can be significantly increased.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any: [\[help\]](#)
None needed.

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

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

N/A

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

N/A

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

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? [\[help\]](#)

N/A

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

The view of the forest edge will be altered. Oak trees will become more visible along the forest edge.

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

N/A

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

a. What type of light or glare will the proposal produce? What time of day would it mainly occur? [\[help\]](#)

N/A

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

N/A

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: [\[help\]](#)

None.

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

a. What designated and informal recreational opportunities are in the immediate vicinity? [\[help\]](#)

Walking, bird watching, dog training and hunting.

b. Would the proposed project displace any existing recreational uses? If so, describe. [\[help\]](#)
No recreational uses would be permanently displaced. For safety purposes recreation would have to be temporarily excluded from work areas.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any: [\[help\]](#)
Temporary impacts to recreation will be minimized if work can be conducted in the wintertime when outdoor recreation is limited.

13. Historic and cultural preservation

- 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 located on or near the site? If so, specifically describe.

There have been three recent surveys of the Scatter Creek Wildlife Area (Pfeifle and Kelly 2017; Kelly 2018; Berger 2018). The wildlife area is the former location of two historic structures – the Miller-Brewer House and its associated barn. The house was listed on the National Register, the barn was not (Artifacts Consulting 2007). Both structures were destroyed in a wildfire in 2017.

- 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.

Although the landscape has been identified as potentially culturally sensitive location; there are no recorded landmarks, features, or other evidence of Indian or historic use or occupation. A review of historic maps and the DAHP database did not result in the identification of any recorded cultural features within the project area. With the exception of the recorded resources, maps (USSG 1858, 1863; Metsker 1937, 1962; USACE 1941; USGS 1953) do not show not show any villages, homestead improvements, or residences in the project location.

- 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.

The project was reviewed by the WDFW archaeologist. Context for project evaluation was derived from a review of survey and site documents available on DAHP's WISAARD database, a review of DAHP's predictive model. Field studies, which included subsurface testing, were conducted by professional archaeologists with negative results for significant archaeological resources.

Consultation with the Chehalis, Cowlitz, Nisqually, Squaxin, and Quinault tribes to identify the potential for impacts to cultural resources. To date, no responses have been received.

- 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.

The project has been reviewed by the WDFW archaeologist, who has determined that the project will have a very low probability to impact archaeological resources. The project will operate under WDFW's Inadvertent Discovery Plan, which provides the project proponent with a detail series of steps to follow upon the unanticipated discovery of archaeological or cultural materials

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. [\[help\]](#)
Logging trucks will exit the site onto 183rd Avenue SW at the southwest corner of the wildlife area and at the Northern end of Guava Street at the existing main entrance to the wildlife area.

- 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

- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate? [\[help\]](#)

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

The proposed eastern haul route is currently used as service road and a pedestrian trail. The project will improve the service road/trail by filling ruts and and potholdes with gravel.

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

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? [\[help\]](#)

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. [\[help\]](#)

No

h. Proposed measures to reduce or control transportation impacts, if any: [\[help\]](#)

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. [\[help\]](#)

No

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

None

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

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

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: Richard Tveten

Name of signee Richard Tveten

Position and Agency/Organization Forest Management Team Lead

Date Submitted: 3/7/18