STATE FOREST LAND
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.

Questions in italics are supplemental to Ecology’s standard environmental checklist. They have been added by the DNR to assist in the review of state forest land proposals. Adjacency and landscape/watershed-administrative-unit (WAU) maps for this proposal are available on the DNR internet website at http://www.dnr.wa.gov/sepa. These maps may also be reviewed at the DNR regional office responsible for the proposal. This checklist is to be used for SEPA evaluation of state forest land activities.

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:
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

1. Name of proposed project, if applicable: Oakridge Road Orchard Development

   *Timber Sale Name: PINEAPPLE JUICE  
   Agreement # 30-098439*

2. Name of applicant: Washington Department of Natural Resources

3. Address and phone number of applicant and contact person: Rochelle Wickwire 509-899-7915  
2407 N Commercial Ave Suite A, Pasco, WA 99301

4. Date checklist prepared: 02/27/2019

5. Agency requesting checklist: Washington Department of Natural Resources

6. Proposed timing or schedule (including phasing, if applicable):
   a. *Auction Date:*
      06/13/2019
   b. *Planned contract end date (but may be extended):*
      09/30/2019
   c. *Phasing:*
      The Orchard Development will begin at the conclusion of the timber sale, fall 2019.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.
   ☑ Yes, identify any plans under A-7-a through A-7-d:
      a. *Site Preparation:*
         After the timber is removed the stumps, slash, and small trees will be piled and burned. The site will be graded to accommodate planting.
      b. *Regeneration Method:*
         None.
      c. *Vegetation Management:*
         Site preparation sprays may be conducted prior to planting.
      d. *Other:*
         An orchard fence will be installed around the perimeter of the development.
8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. Note: All documents are available upon request at the DNR Region Office.

- 303 (d) – listed water body in WAU:
  - ☑️ temp
  - ☐️ sediment
  - ☑️ completed TMDL (total maximum daily load)

☐ Landscape plan:
☐ Watershed analysis:
☐ Interdisciplinary team (ID Team) report:
☒ Road design plan:
☐ Wildlife report:
☐ Geotechnical report:
☐ Appendix D. slope stability informational form:
☐ Other specialist report(s):
☐ Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
☐ Rock pit plan:
☒ Other:  Forest Practices Board Manual; Forest Practices Activity Map; Policy for Sustainable Forests (PSF 2006); State Soil Survey; Habitat Conservation Plan (HCP 1997, and Amended 2004); HCP Checklist; Road Maintenance and Abandonment Plan (RMAP #270086L). The following information is provided by DNR’s GIS database: WAU Rain-On-Snow Layer; Spotted Owl Habitat Layer; and USGS and GLO maps.

Documents are available upon request at the SE Region Office.

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.

None known.

10. List any government approvals or permits that will be needed for your proposal, if known.

☒ FPA # 3700658 ☐ FPHP ☐ Board of Natural Resources Approval
☒ Burning permit ☐ Shoreline permit ☐ Existing HPA
☐ Other:

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.)

a. Complete proposal description:

DNR is requesting to convert approximately 50 acres of timber ground to orchard ground. The process will start with a timber harvest named PINEAPPLE JUICE. The project will include land clearing and soil preparation, including stump removal. Once the ground is cleared, the Lessee will install irrigation and trellis infrastructure, then plant fruit trees. Lessee is responsible to provide irrigation water used on the premises.
Type of Harvest: Even-aged
Logging System: Ground Based
Approx. 50 acres of timber harvest which will then be developed into orchard
ground.
The land has been transferred out of HCP forest management and into
agricultural use.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Proposal Acres (gross)</th>
<th>RMZ/WMZ Acres</th>
<th>Potentially Uastable Slope Acres</th>
<th>Existing Road Acres (within unit)</th>
<th>Sale Acres</th>
<th>Leave Tree Clump Acres</th>
<th>Net Harvest Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>43</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>43</td>
<td>0</td>
<td>43</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
</tbody>
</table>

b. Describe the stand of timber pre-harvest (include major timber species and origin date), type of
harvest and overall unit objectives.

Pre-harvest Stand Description:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Origin Date</th>
<th>Major Timber Species</th>
<th>Type of Harvest</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1880</td>
<td>Douglas-fir, ponderosa pine</td>
<td>Clearcut</td>
</tr>
<tr>
<td>2</td>
<td>1930</td>
<td>Douglas-fir, ponderosa pine</td>
<td>Clearcut</td>
</tr>
</tbody>
</table>

Overall Unit Objectives: The objective of the timber sale is to remove all standing timber to
make the site available for conversion into irrigated orchard.

c. Describe planned road activity. Include information on any rock pits that will be used in this
proposal. See associated forest practice application (FPA) for maps and more details.
No road construction is needed for the timber sale portion of this project. The existing road
between the 2 units, the R2040 was constructed with the previous 2002 harvest and will be
sufficient. The Orchard Development may involve improvements to this road and likely an
additional access road along the north edge of the leased 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 (See "WAU Map(s)" and "Timber Harvest Unit Adjacency Map(s)" as referenced on the DNR website: http://www.dnr.wa.gov/sepa. Click on the DNR region of this proposal under the Topic "Current SEPA Project Actions - Timber Sales." Proposal documents also available for review at the DNR Region Office.)

   a. Legal description: T4-0N R11-0E S06, Klickitat County

   b. Distance and direction from nearest town (see the driving map listed on the DNR website for further information): Approximately 15 miles north of White Salmon, Washington.

13. Cumulative Effects

   a. Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s). (See WAC 197-11-444 for what is considered an element of the environment).
      None.

   b. Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.
      This parcel does not contribute to habitat objectives under the DNR's HCP.
      In order to meet the conversion requirements for this parcel, all timber retained in the previous harvest must be removed. This includes Legacy Trees covered by DNR Procedure PR 14-006-091, which is exempted for this activity.

   c. Briefly describe any specific mitigation measures proposed, in addition to the mitigation provided by plans and programs listed under question A-13-b.
      None.

   d. Based on the answers in questions A-13-a through A-13-c, is it likely potential impacts from this proposal could contribute to any environmental concerns listed in question A-13-a?
      No.
e. Complete the table below with the reasonably foreseeable future activities within the associated WAU(s) (add more lines as needed). Future is defined as occurring within the next 7 years.

<table>
<thead>
<tr>
<th>WAU Name</th>
<th>Total WAU Acres</th>
<th>DNR-owned WAU Acres</th>
<th>Acres of DNR proposed even-aged harvest in the future</th>
<th>Acres of DNR proposed uneven-aged harvest in the future</th>
<th>Acres of proposed harvest on non-DNR-managed lands currently under active FP permits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GILMER CREEK</td>
<td>24653</td>
<td>9024</td>
<td>212</td>
<td>387</td>
<td>201</td>
</tr>
</tbody>
</table>

Other management activities, such as stand and road maintenance, will likely occur within the associated WAU(s).

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (check one):
   - ☑ Flat, ☐ Rolling, ☐ Hilly, ☐ Steep Slopes, ☐ Mountainous, ☐ Other:

1. General description of the associated WAU(s) or sub-basin(s) within the proposal (landforms, climate, elevations, and forest vegetation zone).

   WAU: GILMER CREEK
   - WAU Acres: 24653
   - Elevation Range: 370 - 4288 ft.
   - Mean Elevation: 1740 ft.
   - Average Precipitation: 49 in./year
   - Primary Forest Vegetation Zone: Grand Fir

2. Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).
   This proposal is a representative example of the WAUs at the same elevation and aspect.

b. What is the steepest slope on the site (approximate percent slope)?
   20%
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.

*Note: The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the entire sale area. The actual soil conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors.*

<table>
<thead>
<tr>
<th>State Soil Survey #</th>
<th>Soil Texture</th>
<th>Number of Acres within the Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1044</td>
<td>LOAM</td>
<td>49.9</td>
</tr>
<tr>
<td>1043</td>
<td>LOAM</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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

☑ No, go to question B-1-e.
☐ Yes, briefly describe potentially unstable slopes or landforms in or around the area of the proposal site. For further information, see question A-8 for related slope stability documents and question A-10 for the FPA number(s) associated with this proposal.

1) Does the proposal include any management activities proposed on potentially unstable slopes or landforms?

☑ No ☐ Yes, describe the proposed activities:

2) Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.

A steep slope in the NW corner of the proposal area was excluded from both the previous timber sale boundary and is also excluded from this proposal.

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.

*Approx. acreage new roads:* 0
*Approx. acreage new landings:* N/A. Landings will be temporary and that acreage incorporated into the subsequent orchard development.

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

Yes. Some erosion could occur as a result of building temporary landings and hauling timber, and during the clearing and site preparation for the orchard development.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):* None.
h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
   (Include protection measures for minimizing compaction or rutting.)
Logging and project development will occur during periods where wind and water erosion will be minimized. Leaving steeper slopes undeveloped with natural vegetation remaining. The subsequent orchard development will be planted in rows across the slope to prevent concentrated runoff. Grass seeding may be utilized.

2. Air

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.
   Minor amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted during proposed activities. If landing debris is burned after harvest is completed, smoke will be generated. When the orchard is established, pesticide applications and lime and fertilizer applications will occur as on the adjacent orchard properties.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.
   None known.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:
   If landing debris is burned, it will be in accordance with Washington State's Smoke Management Plan. A burn permit will be obtained before burning occurs.

3. Water

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. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: http://www.dnr.wa.gov/sepa. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

   □ No  ☒ Yes, describe in 3-a-1-a through 3-a-1-c below

   a. Downstream water bodies:  Gilmer Creek is approximately 500’ north of the proposal and it flows into the White Salmon River.

   b. Complete the following riparian & wetland management zone table:  None.
c. List any additional RMZ/WMZ protection measures including silvicultural prescriptions, road-related RMZ/WMZ protection measures and wind buffers.

None.

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.

☐ No

☐ Yes (See RMZ/WMZ table above and timber sale maps which are available on the DNR website: http://www.dnr.wa.gov/sepa. Timber sale maps are also available at the DNR region office.)

Description (include culverts):

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

None.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (Include diversions for fish-passage culvert installation.)

☐ No

☐ Yes, description: This proposal will require the withdrawal of surface water for irrigation. The estimated usage is approximately 5.5 gpm/acre and 3 acre-ft. per year. There is an existing water right for this volume of water owned currently by Mount Adams Orchards.

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

☐ No

☐ Yes, describe activity and location:

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.

It is not likely that any waste materials will be discharged into the surface water(s). However, minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the adjacent surface water(s) as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site.

7) Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal’s design?

☐ No

☐ Yes, describe:

8) What are the approximate road miles per square mile in the associated WAU(s)?

GILMER CREEK = 4.7 (mi./sq. mi.)
9) Are there forest roads or ditches within the associated WAU(s) that deliver surface water to streams, rather than back to the forest floor?

☐ No  ☐ Yes, describe:

10) Is there evidence of changes to channels associated with peak flows in the proposal area (accelerated aggradations, surface erosion, mass wasting, decrease in large organic debris (LOD), change in channel dimensions)?

☐ No  ☐ Yes, describe observations:

11) Describe any anticipated contributions to peak flows resulting from this proposal's activities which could impact areas downstream or downslope of the proposal area. The orchard planned for this site will likely have the same hydrologic function as the current young planted timber stand in Unit 1. There is a reduction of 7 acres of hydrologically mature forest cover in Unit 2. There are no anticipated impacts to peak flows from this proposal. The site is relatively flat and there are no typed watercourses within or adjacent to the boundaries.

12) Is there a water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

☐ No  ☐ Yes, describe the water resource(s): Mt. Adams Orchards withdraws water from Gilmer Creek approximately 1 mile downstream of this proposal.

a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?

☐ No  ☐ Yes, describe possible impacts:

13) Describe any protection measures, in addition to those required by other existing plans and programs (i.e. the HCP, DNR landscape plans) and current forest practice rules included in this proposal that mitigate potential negative effects on water quality and peak flow impacts.

As a part of the orchard development the site will be graded and planted across the slope to avoid concentrating runoff in rows up and down the slope.

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 groundwater will be withdrawn or discharged.
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. Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.

3) Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity?

☐ No ☑ Yes, describe: Previously noted agricultural surface water in B3a12.

a. Is it likely a water resource or an area of slope instability listed in B-3-b-3 (above) could be affected by changes in amounts, timing, or movements of groundwater as a result this proposal?

☐ No ☑ Yes, describe possible impacts:

Note protection measures, if any:

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. Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.

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

☐ No ☑ Yes, describe:

Note protection measures, if any:
No additional protection measures will be necessary to protect these resources beyond those described in B-1-d-2, B-1-h, B-3-a-2, and B-3-a-13.

3) Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe. No changes to drainage patterns are expected.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:
See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-13, B-3-b-3, and B-3-c-2.
4. Plants

a. Check the types of vegetation found on the site:
   ☒ Deciduous tree:
   ☐ Alder ☐ Aspen ☐ Birch ☐ Cottonwood ☒ Maple ☐ Western Larch
   ☐ Other:
   ☒ Evergreen tree:
   ☒ Douglas-Fir ☐ Engelmann Spruce ☒ Grand Fir ☐ Lodgepole Pine
   ☐ Mountain Hemlock ☐ Noble Fir ☐ Pacific Silver Fir ☒ Ponderosa Pine
   ☐ Sitka Spruce ☐ Western Hemlock ☐ Western Redcedar ☐ Yellow Cedar
   ☐ Other:
   ☐ Shrubs:
   ☐ Huckleberry ☐ Rhododendron ☐ Salmonberry ☐ Salal
   ☒ Other: oceanspray, vine maple
   ☐ Ferns
   ☐ Grass
   ☐ Pasture
   ☐ Crop or Grain
   ☐ Orchards ☐ Vineyard ☐ Other Permanent Crops
   ☐ Wet Soil Plants:
   ☐ Bullrush ☐ Buttercup ☐ Cattail ☐ Devil’s Club ☐ Skunk Cabbage
   ☐ Other:
   ☐ Water plants:
   ☐ Eelgrass ☐ Milfoil ☐ Water Lily
   ☐ Other:
   ☐ Other types of vegetation:
   ☐ Plant communities of concern:

b. What kind and amount of vegetation will be removed or altered? (Also see answers to questions A-11-a, A-11-b and B-3-a-2).

   Approximately 450 Mbf of timber will be removed with the timber sale. All of the young planted trees and brush will be scarified and burned.

   1) Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” on the DNR website: http://www.dnr.wa.gov/sepa. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

   To the north and south of the site are mixed conifer stands approximately 70 to 117 years old. To the west is private orchard and to the east is an orchard lease on State land.
c. List threatened and endangered plant species known to be on or near the site. 
None found in corporate database or known to be on site.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any: None.

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

5. Animals

a. List any birds and other animals or unique habitats which have been observed on or near the site or are known to be on or near the site. Examples include:
birds:
☐ eagle ☑ hawk ☑ heron ☑ owls ☐ songbirds
☐ other:
mammals:
☑ bear ☐ beaver ☑ coyote ☐ cougars ☑ deer ☐ elk
☐ other:
fish:
☐ bass ☐ herring ☐ salmon ☐ shellfish ☐ trout
☐ other:
amphibians/reptiles:
☐ frog ☐ lizard ☐ salamander ☐ snake ☐ turtle
☐ other:
unique habitats:
☐ balds ☐ caves ☐ cliffs ☐ mineral springs ☐ oak woodlands ☐ talus slopes
☐ other:

b. List any threatened and endangered species known to be on or near the site (include federal- and state-listed species).

<table>
<thead>
<tr>
<th>TSU Number</th>
<th>Common Name</th>
<th>Federal Listing Status</th>
<th>State Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>PINEAPPLE JUICE</td>
<td>Western gray squirrel</td>
<td>None</td>
<td>Threatened</td>
</tr>
</tbody>
</table>

Western Gray Squirrel nests have been identified in nearby stands, approximately 0.7 miles south, but none were located within or adjacent to the proposal.

c. Is the site part of a migration route? If so, explain.
☑ Pacific flyway ☐ Other migration route:
Explain: This proposal is located in the Columbia River Flyway, which is part of the Pacific Flyway. Migratory waterfowl use the Columbia River Flyway; however, the area in which this proposal is contained is not the type of area used for resting or feeding by migratory waterfowl. While migrating through Pacific Northwest, many Neotropical migratory birds are closely associated with riparian areas, cliffs, snags, and structurally unique trees.
d. Proposed measures to preserve or enhance wildlife, if any: None.

e. List any invasive animal species known to be on or near the site. None.

6. Energy and natural resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. 
   Electricity will be used to run irrigation pumps and possibly wind machines.

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

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.
   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. Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project. Fertilizer, pesticides, or other agricultural chemicals will be used in the established orchard. No chemicals will be stored on the site, and the use will comply with applicable laws and regulations.
   4) Describe special emergency services that might be required. The Department of Natural Resources, private, and fire protection district suppression crews may be needed in case of wildfire. In the event of personal injuries, emergency medical services may be required. Hazardous material spills may require Department of Ecology and/or county assistance.
5) Proposed measures to reduce or control environmental health hazards, if any:

No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of operations may occur during periods of increased fire risk. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season.

NOTE: If contamination of the environment is suspected, the proponent must contact the Department of Ecology.

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.

There will be short term, low level and high level noise created by the use of harvesting equipment and hauling operations within the proposal area. This type of noise has been historically present in this geographical area.

3) Proposed measures to reduce or control noise impacts, if any: None.

8. Land and shoreline use

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. (Site includes the complete proposal, e.g. rock pits and access roads.)

Current use of site and adjacent land types: Forest Management and Tree Fruit Production

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?

This proposal site has been used as working forest lands. This proposal will convert the forested ground into permanent tree fruit production.

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.

None.
d. Will any structures be demolished? If so, what?
   No.

e. What is the current zoning classification of the site?
   Forest Resource Zone

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

g. If applicable, what is the current shoreline master program designation of the site?
   Not applicable.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.
   No.

i. Approximately how many people would reside or work in the completed project?
   Seasonally 10-20 people will work on the site. No residences.

j. Approximately how many people would the completed project displace?
   None.

k. Proposed measures to avoid or reduce displacement impacts, if any:
   Does not apply.

l. Proposed measures to ensure the proposal is compatible with existing and projected land
   uses and plans, if any:
   This project is consistent with current comprehensive plans and zoning classifications and
   with adjacent land uses.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term
   commercial significance, if any:
   None.

9. Housing

   a. Approximately how many units would be provided, if any? Indicate whether high, middle,
      or low-income housing.
      Does not apply.

   b. Approximately how many units, if any, would be eliminated? Indicate whether high,
      middle, or low-income housing.
      Does not apply.

   c. Proposed measures to reduce or control housing impacts, if any:
      None.
10. Aesthetics

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

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

1) *Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)?*

   □ No   □ Yes, name of the location, transportation route or scenic corridor:

2) *How will this proposal affect any views described above?*

   N/A

c. Proposed measures to reduce or control aesthetic impacts, if any:  *None.*

11. Light and glare

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

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

   *Hunting, hiking, bird watching.*

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

   *Yes. No recreational use will be allowed within the converted leased acreage.*

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

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.
No.

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.
None known. A memo regarding the proposed project was prepared by a DNR Archaeologist on March 4, 2019.

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 proposed project area was reviewed in the field by a DNR Archaeologist and cultural resource technician on November 8, 2018, but the surface visibility was poor, limiting DNR’s ability to determine if there are presently unknown cultural resources in the project area. Part of the project area was surveyed for cultural resources prior to a 2004 timber sale that was completed.

A cultural resources desk review of known archaeological sites, historical map data, and LIDAR hillshade did not identify any resources within the project area. A historical road, shown on an 1883 Government Land Office map, is immediately east of the proposed project area. There are no recorded archaeological sites within one mile of the proposed project area.

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.
If a presently-unknown cultural resource is discovered during timber harvest operations, DNR will comply with the March 2010 Cultural Resources Inadvertent Discovery Guidance.

The Oakridge Road Orchard Development will be accomplished through a lease from DNR. A cultural resources survey will be performed on the project area after the timber harvest concludes and prior to the clearing operations and other orchard installation activities.
14. Transportation

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. 

**Oak Ridge county road serves the site with an existing approach.**

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. None.

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). 

The existing road into the site may be upgraded where it comes onto the Oakridge county road. Improvements may include widening the approach, clearing for site visibility, and may include gravel or paving to prevent dirt being brought out onto the paved county road surface.

1) *How does this proposal impact the overall transportation system/circulation in the surrounding area and any existing safety problem(s), if at all?*

**This project will have minimal to no additional impacts on the overall transportation system in the area.**

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 non-passenger vehicles). What data or transportation models were used to make these estimates? 

Approximately 10 to 15 truck trips per day while the operation is active. Peak volumes would occur during the yarding and loading activities between 4:00 a.m. and 4:00 p.m. of the operating period. The completed project will generate less than one vehicular trip per day. Estimates are based on the observed harvest traffic of past projects.

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. 

The project will contribute to the movement of agricultural products.

h. Proposed measures to reduce or control transportation impacts, if any: None.
15. Public services

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

a. Check utilities currently available at the site:
   □ electricity  □ natural gas  □ water  □ refuse service  □ telephone  □ sanitary sewer
   □ septic system  □ other:

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.
   None.
C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature: [Signature]

Name of signee: Rochelle Wickwire

Position and Agency/Organization: Land Manager / DNR

Date Submitted: 3/4/19