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:

   Timber Sale Name: **TRAP 15**
   Agreement # **30-102759**

2. Name of applicant: **Washington Department of Natural Resources**

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

   Pacific Cascade Region
   PO Box 280
   Castle Rock, Washington 98611-0280
   360.577.2025
   Contact Person: Becky VonDracek

4. Date checklist prepared: **09/22/2021**

5. Agency requesting checklist: **Washington Department of Natural Resources**

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

      **09/29/2022**

   b. Planned contract end date (but may be extended):

      **10/31/2024**

   c. Phasing:

      None

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:

      Site preparation, including a chemical herbicide application, may be used to ensure that planting can be achieved at acceptable stocking levels to meet or exceed Forest Practice standards following harvest. Slash piles on landings may be burned during the fall before planting.

   b. Regeneration Method:

      Units 1 & 2 will be hand planted with conifer species following harvest.
c. Vegetation Management:

Possible treatments, including a chemical herbicide application, could occur following harvest. Treatments will be based on vegetative competition, and will ensure a free-to-grow status that complies with Forest Practices standards.

d. Other:

Road maintenance assessments will be conducted and will include periodic ditch and culvert cleanout, and grading as necessary. Rock will be obtained from the D-1000 Quarry or commercial source for road building and associated forest management activities.

Piled slash may be burned following harvest activities. Firewood permits for the sale area may be issued to the public after timber harvest activities are completed.

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: Trap Creek
   ☒ temp
   ☐ sediment
   ☒ completed TMDL (total maximum daily load)

☐ Landscape plan:
☐ Watershed analysis:
☐ Interdisciplinary team (ID Team) report:
☒ Road design plan: Included in Road Plan
☐ Wildlife report:
☐ Geotechnical report:
☐ Other specialist report(s):
☐ Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
☒ Rock pit plan: Included in Road Plan
☒ Other:

• DNR Policies and Implementation
  o Policy for Sustainable Forests (PSF 2006)
  o Silvicultural Rotational Prescriptions
  o Land Resource Manager Reports and associated maps
• DNR Habitat Conservation Plan and Supplemental Information
  o Habitat Conservation Plan (HCP 1997)
  o DNR’s State Trust Land Final Conservation Plan Amendment for Marbled Murrelet. Long-Term Conservation Strategy (MMLTCS) (2019)
  o Riparian Forest Restoration Strategy (RFRS)
  o Spotted Owl Habitat Layer
  o WAU Rain-On-Snow Layer
• Forest Practices Regulations and Compliance
  o Forest Practices Board Manual
  o Forest Practices Activity Maps
- **HCP Checklist**
  - **Supporting Data for Unstable Slopes Review**
    - State Lands Geologist Remote Review (SLGRR)
    - Landslide Remote Identification Model (LRIM) tool
    - Forest Practices Statewide Landslide Inventory (LSI) screening tool
  - **Supporting Data for Cultural Resources Review**
    - Historical Aerial Photographs
    - USGS and GLO maps
  - **Additional Supporting Data for Policy Compliance**
    - Weighted Old Growth Habitat Index (WOGHI)
    - State Soil Survey

Referenced documents may be obtained at the Pacific Cascade 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 # 2940139
- ☐ 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: **TRAP 15 is a two unit sale in the Browning Block.** Rock will be obtained from the D-1000 Quarry. The proposal will use both ground-based and cable harvesting methods. Approximately 6,774 MBF will be harvested with this proposal and approximate acreage described below.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Proposal Acres (gross)</th>
<th>RMZ/WMZ Acres</th>
<th>Potentially Unstable 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>161</td>
<td>47</td>
<td>0*</td>
<td>8</td>
<td>106</td>
<td>7</td>
<td>99</td>
</tr>
<tr>
<td>2</td>
<td>79</td>
<td>27</td>
<td>0*</td>
<td>1</td>
<td>51</td>
<td>6</td>
<td>45</td>
</tr>
<tr>
<td>Totals</td>
<td>240</td>
<td>74</td>
<td>0*</td>
<td>9</td>
<td>157</td>
<td>13</td>
<td>144</td>
</tr>
</tbody>
</table>

*10 acres of potentially unstable slopes excluded from sale area, located in RMZ/Leave Tree Areas.
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>1961-1969</td>
<td>western hemlock, pacific silver fir, western red cedar, Douglas fir, sitka spruce, red alder.</td>
<td>Variable Retention Harvest (VRH)</td>
</tr>
<tr>
<td>2</td>
<td>1961-1964</td>
<td>western hemlock, pacific silver fir, western red cedar, Douglas fir, sitka spruce, red alder.</td>
<td>Variable Retention Harvest (VRH)</td>
</tr>
</tbody>
</table>

**Overall Unit Objectives:**

The objective of this proposal is:
1) Produce revenue for the Common School and Indemnity (03) and State Forest Transfer (01) through the production of saw logs, poles, and pulp material.
2) Provide for wildlife and riparian habitat by developing vertical stand structure and age class distribution in the future stand.

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.

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>How Many</th>
<th>Length (feet) (Estimated)</th>
<th>Acres (Estimated)</th>
<th>Fish Barrier Removals (#)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td></td>
<td>560</td>
<td>0.25</td>
<td>0</td>
</tr>
<tr>
<td>Reconstruction</td>
<td></td>
<td>8,850</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Maintenance</td>
<td></td>
<td>34,613</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Abandonment</td>
<td></td>
<td>0</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Bridge Install/Replace</td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Stream Culvert Install/Replace (fish)</td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>Stream Culvert Install/Replace (no fish)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cross-Drain Install/Replace</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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](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:

Unit 1 is located in portions of Sections 10, 11, 14 and 15, Township 12 North, Range 08 West.

Unit 2 is located in portions of Section 15, Township 12 North, Range 08 West.

The D-1000 Quarry is located in portions of Section 15, Township 12 North, Range 08 West.

b. Distance and direction from nearest town:

This proposal is approximately 8 miles south of the Town of Menlo.

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).

This proposal may affect the known elements of the environment to varying degrees included in the following sections: Earth, Soils, Air Quality, Surface/Ground Water movement/quantity/quality, runoff/absorption, Wildlife Habitat, Plants, Noise, Land and Shorelines, Aesthetics, Recreation and Cultural Resources.

The 303 (d) stream that is in the Willapa Head Waters WAU is listed for temperature impairment. Due to the distance for the proposal area (approximately 6000 feet downstream) and mitigation measures in this proposal, there should be no impact to Trap Creek.

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.

The Department of Natural Resources has a multi-species Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service concerning threatened and endangered species and their habitats, which requires the Department to manage landscapes to provide and sustain long-term habitat in exchange for an Incidental Take Permit. This agreement substantially helps the Department to mitigate for cumulative effects related to management activities. The Department follows Forest Practices Rules as applicable to roads and potentially unstable slopes. The Department follows Forest Protections related to fire hazard mitigation.

Development of older forests is an expected outcome of the 1997 Trust Lands Habitat Conservation Plan (HCP), and a policy objective stated in DNR’s Policy for Sustainable Forests. Landscape assessments made in May 2021, demonstrate that through implementation of the HCP and other Policies and laws, older forest targets will be met in conservation areas over time. These conservation areas include identified long-term forest cover under the Marbled Murrelet long-term conservation strategy, riparian areas, areas
conserved under the multispecies conservation strategy, potentially unstable slopes, spotted owl nest patches, and spotted owl habitat that must be maintained to comply with the northern spotted owl conservation strategy (within NRF and South Puget Planning Unit dispersal management areas). The South Coast HCP Planning Unit will meet at least 10% older forest within conservation areas by 2100.

c. Briefly describe any specific mitigation measures proposed, in addition to the mitigation provided by plans and programs listed under question A-13-b.

No further mitigation measures have been specifically proposed other than those outlined in question A-13-b.

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 generally defined as occurring within the next 7 years. This data was obtained from DNR’s Land Resource Manager System on the date of processing this checklist and may be subject to change.

<table>
<thead>
<tr>
<th>WAU Name</th>
<th>Total WAU Acres</th>
<th>DNR-managed 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>NASELLE HEADWATERS</td>
<td>49134</td>
<td>5367</td>
<td>278</td>
<td>0</td>
<td>1740</td>
</tr>
<tr>
<td>WILLAPA HEADWATERS</td>
<td>62850</td>
<td>19943</td>
<td>2746</td>
<td>0</td>
<td>3883</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:** NASELLE HEADWATERS
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)?

The steepest side slopes are 102% in the RMZ’s and 80% in the harvest unit.

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 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>
</tr>
</thead>
<tbody>
<tr>
<td>9804</td>
<td>SILT LOAM</td>
</tr>
<tr>
<td>1936</td>
<td>SILT LOAM</td>
</tr>
<tr>
<td>4356</td>
<td>SILT LOAM</td>
</tr>
<tr>
<td>0665</td>
<td>SILT LOAM</td>
</tr>
<tr>
<td>9805</td>
<td>SILT LOAM</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
Unit 1 and 2 contain inner gorges and bedrock hollows discovered during the remote review, and confirmed with field visit by a State Lands Geologist and forester trained in unstable slope identification. A shallow rapid failure was also discovered during field visit. The geologist remotely reviewed all units of the sale utilizing the review of the historic aerial photographs, Forest Practices Statewide Landslide Inventory data, and Landslide Remote Identification Model (LRIM) tool. LRIM is a screening tool, which identifies areas of potentially unstable landforms and is derived from Light Detection and Ranging (LiDar) elevation data. The results of the geologist review, available in SLGRR (State Lands Geologist Remote Review), indicated the proposal area had a moderate likelihood of slope instability. The forester excluded all unstable areas from the sale area using “Timber Sale Boundary” tags and pink flagging; totaling 10 acres.

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.

- Rule identified landforms in Unit 1 and 2 were excluded from the sale area with “Timber Sale Boundary” tags and pink flagging. The total acreage excluded from the harvest area was approximately 10 acres.
- Construction on side slopes over 45% will require full bench excavation with end haul.
- Cross-drains and ditch-outs will be utilized to minimize the potential for mass wasting and slope failures associated with poor drainage.
- Some Type 5 headwalls have leave tree clumps protecting them.
- Lead end suspension will be required on all yarding activities.

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.

Purpose: Removal of forest products.
Approx. acreage new roads: 1
Approx. acreage new landings: 1
Approx. quantities: 8000 cubic yards
Fill Source: Native

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 new roads, installing culverts, and hauling timber.
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):* 

Approximately 2% of the site will remain as gravel roads and landings.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any: *(Include protection measures for minimizing compaction or rutting.)*

- The no harvest RMZs will function to protect streams from sediment delivery.
- Harvested areas will be replanted with coniferous tree species to reestablish root bound soils.
- Harvest will utilize lead end suspension to minimize soil disturbance.
- Roads were located on ridge-tops where possible.
- Areas of soil exposed through road construction will be re-vegetated.
- Skid trails may be water barred post-harvest, if necessary
- Skid trails may be revegetated post-harvest, if necessary
- Roads will be constructed during dry weather conditions.
- Cross drains and ditch-outs will be utilized to minimize the potential for mass wasting and slope failures associated with poor drainage.

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. There will be no emissions once the proposal is complete.

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:

All streams in this proposal are tributary to Trap Creek to Willapa River to Willapa
Bay to Pacific Ocean.

b. Complete the following riparian & wetland management zone table:

<table>
<thead>
<tr>
<th>Wetland, Stream, Lake, Pond, or Saltwater Name (if any)</th>
<th>Water Type</th>
<th>Number (how many?)</th>
<th>Avg RMZ/WMZ Width in feet (per side for streams)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unnamed Stream</td>
<td>3</td>
<td>3</td>
<td>197</td>
</tr>
<tr>
<td>Unnamed Stream</td>
<td>4</td>
<td>13</td>
<td>100</td>
</tr>
<tr>
<td>Unnamed Stream</td>
<td>5</td>
<td>31</td>
<td>NA</td>
</tr>
</tbody>
</table>

c. List any additional RMZ/WMZ protection measures including silvicultural
prescriptions, road-related RMZ/WMZ protection measures and wind buffers.

Leave trees were placed along some Type 5 Streams.

Wind buffers were not applied to streams because they were either less than 5 feet
wide or protected by topographical sheltering from prevailing winds.

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):

Cable may be hung over RMZ’s to facilitate yarding. Trees may be cut in RMZs for
safety or operational needs, but will be left in place to provide large woody debris
functions in the riparian area.

Type 5 streams may have tail-hold cable strung over them and/or timber yarded
across them.

A Culvert on a Type 5 stream will be installed at STA 7+14 on the D-1400 road.
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.

There will be approximately 60 cubic yards of fill rock and native material that will be placed over a culvert on the D-1400 road.

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:

Temporary diversion may be necessary for the culvert installation on the Type 5 stream, this activity may include creating a check dam and diverting the water around the work area to prevent sediment delivery to typed water. Water will be returned to the original stream channel at the best possible location.

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

☐ No ☒ Yes, describe activity and location:

The installation of a culvert on a Type 5 streams will occur with this proposal. Water will be diverted during the culvert installation.

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.

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:

Soils and terrain susceptible to surface erosion are generally located on slopes steeper than 70%. The potential for eroded material to enter surface water is minimized due to the erosion control measures and operational procedures outlined in B-1-h.

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

NASELLE HEADWATERS = 6.0 (mi./sq. mi.), WILLAPA HEADWATERS = 5.8 (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:
It is possible some roads or road ditches within the WAU intercept sub-surface flow and deliver surface water to streams, however current road construction, reconstruction, and/or maintenance standards will be applied that address this issue by installing cross-drains to deliver ditch water to stable forest floors.

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:

There is evidence of changes to channels across the WAU(s). These changes are a result of natural events such as spring runoff from snowmelt and significant storm events. Channel migration, scouring, and deposition of material can be seen in channels across the WAU(s); this indicates those channels historically experience higher water levels and peak flows.

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.*

It is not likely the proposed activity will change the timing, duration, or volume of water during a peak flow event. This proposal limits harvest unit size and proximity to other recent harvests, minimizes the extent of the road network, incorporates road drainage disconnected from stream networks, and implements wide riparian buffers which all have mitigating effects on the potential for this proposal to increase peak flows that could impact areas downstream or downslope of the proposal area.

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):

There are several areas of potential slope instability downstream, however based on the protection measure outlined above, these areas will not be impacted by the 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.*
See B.1.h. for further protection measures. None beyond what is required by forest practices and the HCP.

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 water 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.

None.

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:

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:

Waste materials, such as sediment or slash, may enter surface water.
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, and B-3-a-2.

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

No significant 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: Cherry, Cascara
   ☒ 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: 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).

All conifer and hardwood trees will be removed as part of this harvest proposal, except the wildlife leave trees, green recruitment trees and the vegetation within the RMZs. Understory vegetation will be disturbed and/or reduced within the proposed harvest area as a result of timber felling, bucking, yarding and site preparation activities. Most of the vegetation will re-establish within 2 – 3 years after forestry activities are complete.

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.)

Unit 1: To the north is a conifer plantation origin year 1964,1969 and 1995. To the east and south is mature RMZ and timber origin years 1961. To the west is mature RMZ origin year 1969.

Unit 2: To the north and east is mature RMZ origin 1961. To the south is a conifer plantation origin year 2009 and mature timber origin 1961. To the west is a conifer plantation origin year 2009 and mature RMZ origin 1961.

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

None found in corporate database.

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

Retention tree clumps are identified across the harvest area. Some clumps were selected for their species diversity of native flora. These clumps will provide a local seed source for native overstory and understory species. Some natural regeneration of native species will occur on site after harvest. Wildlife trees were left in areas to protect snags, large down logs, advanced regeneration, Type 5 streams, and potentially unstable slopes. Trees with defects such as split or broken tops, dominant crowns, large diameters and large limbs were favored as leave trees to enhance wildlife potential.

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

Scotch Broom has been observed near both units.

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: Marbled murrelet

mammals:
☒ bear ☑ beaver ☐ coyote ☑ cougar ☑ deer ☑ elk
☑ other: Bobcat.

fish:
☐ bass ☐ herring ☑ salmon ☐ shellfish ☑ trout
☑ other: Sculpin.

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).

This proposal includes road maintenance activities on an existing road within marbled murrelet occupied habitat. There will be timing restrictions on the following road, D-1300, which includes any road work or heavy equipment operation shall be limited to two hours after sunrise to two hours before sunset from April 1st through September 23rd. This restriction does not apply to hauling timber, rock, or equipment.

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

☒ Pacific flyway ☐ Other migration route:

Explain:

All of Washington State is considered part of the Pacific Flyway. No impacts are anticipated as a result of this proposal.

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

This sale has been designed to comply with the Department’s HCP and provides for the protection of wildlife and their habitats. Scattered and clumped leave trees provide nesting, roosting and foraging areas for avian species. Well engineered and constructed roads reduce potential water quality impacts for downstream fish populations. Revegetating exposed soil aids water quality and provides forage for ungulates. Large diameter leave trees, and leave trees with unique structure, will remain post-harvest to enhance the wildlife habitat value of the future stand. The regenerated stand will be composed of mixed conifer species.
1) Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.

Riparian habitat
- No harvest RMZs on Type 3 and 4 streams

Upland habitat
- A minimum of 8 leave trees per acre were left clumped and scattered
- Snags will be left where operationally feasible
- Older large down woody debris will be left onsite

Marbled Murrelet
- Timing restriction: Road maintenance on the D-1300 within the occupied buffer shall be limited to two hours after sunrise to two hours before sunset from April 1st through September 23rd.

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

Invasive species have not been observed on or near the site.

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.

Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.

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

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.
Minimal hazards incidental to operation of heavy machinery such as the risk of fire or small amounts of oil and other lubricants may be accidentally discharged as a result of heavy equipment use.

Slash accumulation from harvest operations will temporarily increase risk of ground fire in dried slash. Fire hazard will be mitigated through implementation of WAC-332-24. Overall risk of fire will decrease within 2-3 years of harvest completion.

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.

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, as per WAC-332-24, Forest Protection requirements 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: managed for timber production by the DNR and private timber companies.

      This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.

   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 retain the site in working forest lands.

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

   All units are zoned Commercial Forest (CF).

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

   The comprehensive plan designation is resource lands, forest long term significance.

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?

   None.

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.

m. Proposed measures to ensure the proposal is compatible with nearby 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?

*Views in the background will be temporarily be altered by the removal of trees.*

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?*

*Views of standing timber will be decrease in short term until vegetation and tree seedlings begin to grow back.*

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:

  e. None.

12. Recreation

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

     There are no recreational facilities within the proposal area. However, hunting, hiking, horseback riding, mountain biking, mushroom and berry picking and other dispersed outdoor recreation activities may occur within the proposal area.

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

     There may be some disruptions to recreational use during periods of harvesting and hauling.

  c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

     None at this time.

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.

     No.

  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 site was remotely reviewed by a DNR Cultural Resource Technician, reviewing GLO and Historic maps, and existing recorded historical sites.

  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 project operations, DNR will comply with the Cultural Resources Inadvertent Discovery Guidance dated March 2010 or its successor procedure.

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.

SR 6 to forest roads assess the harvest units.

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. Nearest transit spot is approximately 15 miles away.

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

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).

Yes, see A-11-c.

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.

   No.

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: Mike Henrie

Position and Agency/Organization: Forester/Naselle Unit/State Lands; Department of Natural Resources

Date Submitted: 1/24/2022