

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: **GHOST TOWN SORTS**
Agreement # **30-104392**

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
Phone: (360) 577-2025

Contact Person: Becky VonDracek

4. Date checklist prepared:

07/07/2022

5. Agency requesting checklist:

Washington Department of Natural Resources

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

a. *Auction Date:*

06/13/2024

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

07/31/2025

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.

No, go to question 8.

Yes, identify any plans under A-7-a through A-7-d:

a. *Site Preparation: (is site prep standard?)*

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 may be burned during the fall before planting.

b. *Regeneration Method:*

The Variable Retention Harvest (VRH) Units 1, 2, and 3 will be hand planted with hardwood species and Units 4, 5, and 6 will be hand planted with conifer species following harvest.

c. *Vegetation Management:*

Possible treatments, including a chemical herbicide application, could occur following harvest in Units 1-6. 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 Signal Pit for road building and associated forest management activities. Rock discovered in the course of road construction may be used if it meets the rock specifications.

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: **Stitz Creek is within 187 feet of the proposal.**

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan: Included in the 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 the Road Plan

Other:

The following analyses, policies, procedures, documents, and data layers directly pertain to or were reviewed as part of this proposal:

- **DNR Policies and Implementation**
 - **Policy for Sustainable Forests (PSF; 2006a)**
 - **Final Environmental Impact Statement on the Policy for Sustainable Forests (2006b)**
 - **Identifying Stands to Meet Older Forest Targets in Western Washington (2021)**
 - **2021 Older Forest and Structurally Complex Stands Within Conservation COLUMBIA (2024)**
 - **Projected Older Forest Within Conservation COLUMBIA (2024)**
 - **Alternatives for the Establishment of a Sustainable Harvest Level for Forested State Trust Lands in Western Washington Final Environmental Impact Statement (2019)**
 - **Silvicultural Rotational Prescriptions**
 - **Land Resource Manager Reports and associated maps**
- **DNR Trust Lands Habitat Conservation Plan and Supplemental Information**
 - **Final Habitat Conservation Plan (HCP; 1997)**
 - **Final (Merged) Environmental Impact Statement for the Habitat Conservation Plan (1998)**
 - **Long-Term Conservation Strategy for the Marbled Murrelet Final Environmental Impact Statement (2019)**
 - **Final State Trust Lands Habitat Conservation Plan Amendment: Marbled Murrelet Long-term Conservation Strategy**
 - **Riparian Forest Restoration Strategy (RFRS; 2006)**
 - **Spotted Owl Habitat Layer**
 - **Marbled Murrelet Habitat Layer**
 - **WAU Rain-On-Snow GIS Layer and Reports**
- **Forest Practices Regulations and Compliance**
 - **Forest Practices Board Manual**
 - **Forest Practices Activity Maps**
 - **Trust Lands HCP Addendum and 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**
 - **Department of Archaeology and Historic Preservation database for architectural and archaeological resources and reports (WISAARD)**
- **Additional Supporting Data for Policy Compliance**
 - **Weighted Old Growth Habitat Index (WOGHI)**
 - **State Soil Survey**

Referenced documents may be obtained from 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 # 2942287 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:

Ghost Town Sorts is an eight unit timber sale in the Toutle Block, six units of variable retention harvest and two Right-of-Way units. This proposal will utilize both ground and cable harvesting methods. Approximately 5,518 MBF will be harvested with this proposal and approximate acreage described below.

Unit	Proposal Acres (gross)	RMZ/WMZ Acres	Potentially Unstable Slope Acres	Existing Road Acres (within unit)	Sale Acres	Leave Tree Clump Acres	Net Harvest Acres
1	23	9	0	0	14	1	13
2	126	20	*	3	106	7	97
3	32	7	*	0	25	3	21
4	127	22	*	0	105	11	94
5	8	2	0	0	6	1	5
6	9	5	0	0	4	0	4
ROW U7 (Private)	2	0	0	0	2	0	2
ROW U8	1	0	0	0	1	0	1
Totals	328	65	*	3	260	23	237

***Approximately 17 acres of potentially unstable slopes have been excluded from the sale area, these acres are located in RMZs, Leave Tree Areas, and outside of the proposal area.**

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:

Unit	Origin Date	Major Timber Species	Type of Harvest
1	1982	Douglas fir, western hemlock, red alder	Variable Retention Harvest
2	1982-1990	Douglas fir, western hemlock, red alder	Variable Retention Harvest
3	1989	Douglas fir, western hemlock, red alder	Variable Retention Harvest
4	1966-1981	Douglas fir, western hemlock, red alder	Variable Retention Harvest
5	1966	Douglas fir, western hemlock, red alder	Variable Retention Harvest
6	1966	Douglas fir, western hemlock, red alder	Variable Retention Harvest
ROW U7 (Private)	1966	Douglas fir, western hemlock, red alder	Right-of-way
ROW U8	1989	Douglas fir, western hemlock, red alder	Right-of-way

Overall Unit Objectives:

- 1.) Produce revenue for the Common School Trust (03) through the production of saw logs, poles, and pulp material.**
- 2.) Provide for wildlife and riparian habitat by maintaining vertical stand structure and age class variability in the future stands.**

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.

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		2,025	1	0
Reconstruction		3,080		0
Maintenance		27,771		0
Abandonment		565	<1	0
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	5			
Cross-Drain Install/Replace	20			

All of a proposed road 2410C-1, is being reconstructed on an adjacent ownership (non-DNR State Lands property). A portion of a proposed roads 2410C-1 EXT and 2422C-1, is being constructed on an adjacent ownership (non-DNR State Lands property). An agreement was reached with the adjacent landowner and the Department for the construction/reconstruction and use of these roads in conjunction with this proposal. This roadwork has been evaluated as part of the entire proposal in this SEPA.

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:

Units 1-6 and ROW U8 are located within Section 16 of Township 10 North, Range 02 East W.M.

ROW U7 (Private) is located within portions of Section 17 of Township 10 North, Range 02 East W.M.

The Signal Pit is located in Section 03 of Township 09 North, Range 02 East W.M.

b. Distance and direction from nearest town:

This proposal is located approximately 12 miles by road east of Toutle, 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).*

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/quality/quantity, runoff/absorption, Wildlife Habitat, Plants, Noise, Land and Shorelines, Aesthetics, Recreation, and Cultural Resources.

DNR analyzed carbon sequestration and carbon emissions from projected land management activities within its final environmental impact (FEIS) statement for the 2015-2024 Sustainable Harvest Calculation and the FEIS for the 2019 HCP Long-Term Conservation Strategy for the Marbled Murrelet. At the western Washington scale, land management activities on DNR-managed lands sequester more carbon than emitted. Individual activities, such as this proposal, are likely to emit some greenhouse gases, including CO₂; however, at the landscape scale, DNR's sustainable land management activities, including this proposal, sequester more carbon than they emit. Evaluating carbon sequestration at the western Washington scale is appropriate because a determination of net carbon emissions must consider both the carbon sequestered and the carbon emissions from management within the same analysis area (western Washington).

Recognizing the climate and carbon benefits of working forests in Washington's Climate Commitment Act (RCW 70A.45.005), the legislature found that Washington should maintain and enhance the state's ability to continue to sequester carbon through natural and working lands and forest products. Further, "Washington's existing forest products sector, including public and private working forests and the harvesting, transportation, and manufacturing sectors that enable working forests to remain on the land and the state to be a global supplier of forest products, is, according to a University of Washington study analyzing the global warming mitigating role of wood products from Washington's private forests, an industrial sector that currently operates as a significant net sequesterer of carbon. This value, which is only provided through the maintenance of an intact and synergistic industrial sector, is an integral component of the state's contribution to the global climate response and efforts to mitigate carbon emissions." RCW 70A.45.090(1)(a).

The legislature also found that the 2019 Intergovernmental Panel on Climate Change (IPCC) report "identifies several measures where sustainable forest management and forest products may be utilized to maintain and enhance carbon sequestration. These include increasing the carbon sequestration potential of forests and forest products by maintaining and expanding the forestland base, reducing emissions from land conversion to non-forest uses, increasing forest resiliency to reduce the risk of carbon releases from disturbances such as wildfire, pest infestation, and disease, and applying sustainable forest management techniques to maintain or enhance forest carbon stocks and forest carbon sinks, including through the transference of carbon to wood products" (2020 Washington Laws Ch. 120 §1(2)).

DNR is legally required (RCW 79.10.320) to periodically calculate a sustainable harvest level and manages state trust lands sustainably. DNR has also maintained (statewide) a

forest management certificate to the Sustainable Forestry Initiative standard since 2006. In managing state trust lands sustainably, DNR sequesters more carbon than it emits while conducting land management activities such as this proposal.

The timber harvested from DNR-managed lands is used to produce climate-smart forest products. The climate impacts of DNR's land management are analyzed in multiple environmental impact statements that have informed the Board of Natural Resources' decisions and are consistent with the IPCC, which states that “[m]eeting society’s needs for timber through intensive management of a smaller forest area creates opportunities for enhanced forest protection and conservation in other areas, thus contributing to climate change mitigation.”

The 303(d) listed streams that are in the North Fork Toutle WAU are listed as having a completed Total Maximum Daily Load (TMDL) plan to address impairments due to surface water temperature increases. There should be no impact to listed water, Stitz Creek due to the distance from the proposal area (approximately 187 miles downstream and further) and measures designed to address surface water concerns described in this document.

- 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.

The General Silviculture Strategy (policy) in the Policy for Sustainable Forests emphasized that older forest targets will be accomplished over time and that DNR intends to actively manage structurally complex forests to achieve older-forest structures (i.e. stands with older forests identified by structural characteristics) across 10 to 15 percent of each western Washington HCP planning unit in 70 to 100 years.

In May 2021, the DNR produced a document titled ‘Identifying Stands to Meet Older Forest Targets in Western Washington’, which is incorporated by reference. This describes the background, historical analysis regarding attainment of older forest conditions in western Washington, and updated data and modeling analyses showing when the various HCP planning units across western Washington are expected to attain a level of older forest conditions through implementation of the HCP and other conservation objectives. It also describes when HCP planning units will achieve the older forest structure expected through implementation of the HCP and outlined as targets in the PSF.

This landscape assessment identifies the existing structurally complex forests of existing

structurally complex stands managed for older forest targets as of 2021. These structurally complex stands include old-growth stands, stands in special ecological management areas, stands meeting targets for other HCP conservation strategies, suitable marbled murrelet nesting habitat and designated marbled murrelet occupied sites, and riparian areas that are currently meeting the Riparian Desired Future Condition. Stands identified as older forest and structurally complex stands are represented in the above-referenced map titled, “2021 Older Forest and Structurally Complex Stands Within Conservation COLUMBIA” (2024).

The results from the May 2021 landscape assessment, and included in the above-referenced memorandum, show that while the COLUMBIA HCP Planning Unit does not currently contain 10 to 15 percent, it demonstrates that through implementation of the HCP and other Policies and laws, stands containing structurally complex forests or managed for older forest targets in conservation areas is projected to exceed 10 percent in the COLUMBIA HCP Planning Unit by 2090 (Table 1). Stands identified to meet older forest targets are represented in the above-referenced map titled, “Projected Older Forest Within Conservation COLUMBIA” (2024). This timber sale, based on field review, has a stand development stage of biomass accumulation/competitive exclusion. This stage of stand development is not considered ‘structurally complex’ per the department’s guidance. The stands in the Ghost Town Sorts timber sale do not meet DNR’s definition for a structurally complex forest. This timber sale is not identified as one of those stands designated to meet older forest targets over time. In the Ghost Town Sorts timber sale 237 acres are being harvested, while 91 acres (28% of total harvest area) are being conserved in unmanaged riparian and wetland management zones, and leave tree areas that will contribute to older forests over time.

Following the timber sale, the variable retention harvest area will be replanted with native, conifer tree species that will be supplemented by natural regeneration expected to occur, because of the conservation areas in and around the harvest area.

Table 1. Percent area western Washington HCP planning units with older forest conditions in conservation areas by decade through 2100. Values over 10% in bold.

HCP Planning Unit	Year								
	2021	2030	2040	2050	2060	2070	2080	2090	2100
Columbia	1.0%	1.1%	1.3%	1.7%	2.6%	4.4%	7.4%	11.6%	16.1%
North Puget	3.3%	4.1%	5.1%	6.6%	8.6%	11.3%	14.6%	18.5%	22.5%
OESF	10.3%	10.9%	11.4%	12.3%	13.5%	15.5%	18.9%	25.6%	32.6%
South Coast	0.2%	0.3%	0.7%	1.2%	2.2%	3.6%	6.1%	9.0%	12.5%
South Puget	2.5%	3.3%	4.3%	5.7%	7.4%	9.8%	12.9%	16.3%	19.6%
Straits	1.7%	2.4%	3.1%	4.1%	5.4%	7.1%	9.6%	12.3%	14.8%
Total (Western Washington)	3.4%	3.9%	4.5%	5.5%	6.9%	9.0%	12.0%	16.1%	20.5%

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

Some Type 5 streams have been protected with leave tees.

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.

WAU Name	Total WAU Acres	DNR-managed WAU Acres	Acres of DNR proposed even-aged harvest in the future	Acres of DNR proposed uneven-aged harvest in the future	Acres of proposed harvest on non-DNR-managed lands currently under active FP permits
NF TOUTLE	41216	11144	950	392	1396

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:	NF TOUTLE
WAU Acres:	41216
Elevation Range:	718 - 4376 ft.
Mean Elevation:	2046 ft.
Average Precipitation:	72 in./year
Primary Forest Vegetation Zone:	Western Hemlock

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 estimated steepest slope on the net harvest acres is 83%

- 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.

State Soil Survey #	Soil Texture
9830	SILT LOAM
1099	SILT LOAM
0451	SILT LOAM
7231	V.GRAVELLY SILT LOAM

- 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.

Unit 2 has 2 bedrock hollows, and indications of some downhill creep happening with occasional shallow slides. The landforms were discovered during the remote review and verified with a field visit by the State Lands Geologist and a forester trained in unstable slope identification. Unit 3 had a Translational slide with an associated bedrock hollow and inner gorge. Unit 4 has a shallow earth flow. The geologist remotely reviewed all units of the sale utilizing 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, is available in SLGRR (State Lands Geologist Remote Review), indicated the proposal area had a moderate likelihood of slope instability. The forester, trained in unstable slope identification, excluded all potentially unstable areas from the sale area using “Timber Sale Boundary” tags and pink flagging; totaling 17 acres.

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

No Yes, describe the proposed activities:

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

- **Potentially unstable slopes/Rule identified landforms were identified in and around Units 2, 3, and 4 and were excluded from the sale area using “Timber Sale Boundary” tags. The excluded area totaled approximately 17 acres.**
- **Cross-drains and ditchouts 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 Acre**

Approx. acreage new landings: **1 acre**

Fill Source: **Signal pit and Native Material**

- 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 4% 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.)*

Protection measures to reduce erosion associated with roads:

- **Roads were located on ridge-tops where possible.**
- **Areas of soil exposed through road construction will be re-vegetated.**
- **Roads will be constructed during dry weather conditions.**
- **Sediment control measures will be used as necessary during active haul to prevent sediment delivery to water.**
- **Timing restrictions or temporary road shutdown will be used as necessary during active haul to prevent sediment delivery to water.**
- **Cross drains and ditch-outs will be utilized to minimize the potential for mass wasting and slope failures associated with poor drainage.**

Protection measures to reduce erosion associated with logging operations:

- **Harvest units will be replanted with conifer tree species to re-establish root bound soils.**
- **No harvest RMZs will function to protect streams from sediment delivery.**
- **The proposal will be harvested utilizing lead-end suspension to minimize soil disturbance.**
- **Leave trees were strategically placed around the headwalls of most Type 5 streams to minimize disturbance.**
- **Skid trails will be water barred post-harvest, as necessary.**
- **Skid trails will be revegetated post-harvest, as necessary.**

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.

Harvest operations and the removal of timber will result in minor amounts of CO₂ emissions from the direct proposal site. See A.13.a. for details regarding completed analyses of carbon emissions and sequestration on DNR-managed lands in western Washington.

- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

None known.

Carbon dioxide emissions associated with harvested wood products are analyzed in Alternatives for the Establishment of a Sustainable Harvest Level Final Environmental Impact Statement (2019) and the Long-Term Conservation Strategy for the Marbled Murrelet Final Environmental Impact Statement (2019).

- 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.

Following harvest, native tree species will be planted on site at a level higher than existed prior to harvest resulting in regeneration of the forest stand and initiating carbon sequestration through forest stand growth.

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: **Stitz Creek, North Fork Toutle River, Cowlitz River, Columbia River**

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

Wetland, Stream, Lake, Pond, or Saltwater Name (if any)	Water Type	Number (how many?)	Avg RMZ/WMZ Width in feet (per side for streams)
Unnamed Stream	3	3	187
Stitz Creek	3	1	187
Unnamed Stream	4	10	100
Unnamed Stream	5	35	N/A
Forested Wetland	1>Acre	1	187
Forested Wetland	0.25 to 1.0 Acre	3	100
Forested Wetland	0 to 0.25 Acres	1	NA

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

Leave trees were located around most Type 5 streams. Trees will be felled away from streams where possible.

Wind buffers were not applied to this proposal. Wind buffers were not utilized because the streams were either less than 5 feet wide and/or due to a low potential for blowdown resulting from topographical sheltering from prevailing winds, as evidenced by an absence of significant riparian blowdown in recent years.

RMZs are no-harvest riparian buffers. Trees within RMZs may be cut for safety or operational needs, any trees cut will be left in placed adding to down woody debris within riparian zones.

Buffers on all streams and wetlands in the vicinity of this proposal meet the requirements of the DNR Habitat Conservation Plan.

A portion of the right of way unit is located within a Type 4 RMZ. The width of this

right of way was minimized to reduce impact to the RMZ. Right of way debris and organic matter waste areas are prohibited within 50 feet of streams and wetlands.

Type 5 streams may have tailhold cables strung over them and/or timber yarded across them with lead-end suspension. Type 4 streams may have tailhold cable suspended over them, however no timber will be yarded through Type 4 streams. Timber harvest may occur as close as 100-feet (required minimum RMZ width) adjacent to Type 4 streams in the proposal area. Timber harvest may occur within approximately 187 feet (required minimum RMZ width) on Type 3 streams.

Skid trails within the units may be water-barred.

- 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):

Leave trees were located around most Type 5 streams. Trees will be felled away from streams where possible.

RMZs are no-harvest riparian buffers. Trees within RMZs may be cut for safety or operational needs, any trees cut will be left in place adding to down woody debris within riparian zones.

Buffers on all streams and wetlands in the vicinity of this proposal meet the requirements of the DNR Habitat Conservation Plan.

A portion of the right of way unit is located within a Type 4 RMZ. The width of this right of way was minimized to reduce impact to the RMZ. Right of way debris and organic matter waste areas are prohibited within 50 feet of streams and wetlands.

Type 5 streams may have tailhold cables strung over them and/or timber yarded across them with lead-end suspension. Type 4 streams may have tailhold cable suspended over them, however no timber will be yarded through Type 4 streams. Timber harvest may occur as close as 100-feet (required minimum RMZ width) adjacent to Type 4 streams in the proposal area. Timber harvest may occur within approximately 187 feet (required minimum RMZ width) on Type 3 streams.

Skid trails within the units may be water-barred.

- 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.

Native fill.

- 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 replacement and five installations on Type 4 and 5 streams. These activities may include creating a check dam and diverting the water around the work area to prevent sediment delivery to the 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:

One culvert installation on a Type 4 stream and four culvert installations on Type 5 streams will occur with this proposal. Water will be diverted during the temporary pipe installation and removal.

- 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)?*

NF TOUTLE = 5.3 (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.*

This proposal utilizes mitigation measures designed to minimize changes in peak flows, including; limiting harvest size and proximity to recent harvests, minimizing the road network, road drainage that is disconnected from streams, and wide riparian buffers. Due to these mitigation measures, no significant changes to peak flows are expected due to this proposal.

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 no known downstream or downslope resources within one mile of 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.*

None, beyond what is required by Forest Practices and the HCP.

See B.1.h for additional protection in place for this proposal.

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: *North Fork Toutle River Sediment Dam*

There are no known downstream or downslope resources within one mile of the proposal.

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, 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 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:

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: **Oregon oxalis, Oregon grape**

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 proposal, except for wildlife leave trees, green recruitment trees and the vegetation within RMZs/WMZs. 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.

- 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.)*

Unit 1: To the north and south there is a 41 year old mixed conifer and hardwood RMZ. To the east is a 33 year old mixed conifer stand. To the west, there is a 30 year old conifer stand and a 22 year old hardwood stand.

Unit 2: To the north and east there is a 30 year old conifer stand. To the west there is a 15 year old hardwood stand. To the south is private property

Unit 3: To the north and east is a 15 year old hardwood stand. To the south is private property. To the west is a 15-year-old mixed conifer RMZ.

Unit 4: To the north is private property. To the east is a 27 year old mixed conifer stand, 10 year old reprod, and 15 year old reprod. To the south is 15 year old reprod and a 166 year old mixed conifer stand. To the West is private property.

Unit 5: To the north, south, and east is a 42 year old RMZ. To the West is private property.

Unit 6: To the north and west is private property. To the east is a 42 year old RMZ. To the south is a 42 year old RMZ/WMZ.

- 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, dominate crowns, large dimeters 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 and tansy have been observed on or near the site.

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 cougar deer elk

other:

fish:

bass herring salmon shellfish trout

other:

amphibians/reptiles:

frog lizard salamander snake turtle

other: **Toads**

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).

None found in corporate database.

- 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 significant 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 State Lands 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 the potential water quality impacts for downstream fish populations. Revegetating exposed soils 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.

- 1) *Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.*

Species /Habitat: **Riparian**

Protection Measures:

- **No harvest Type 3 and 4 RMZs with the exception of the 2418A1-A ROW.**
- **Some Type 5 streams will have leave trees left along them.**

Species /Habitat: **Upland habitat/VRH**

Protection Measures:

- A minimum of 8 leave trees per acre were left clumped and scattered.**
- Older large down woody debris will be left on site.**

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

None observed on or near 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

- 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.

Minimal hazards incidental to operation of heavy machinery, these include the risk of fire or small amounts of oil and other lubricants being accidentally discharged.

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.*)

The land surrounding this proposal is managed for timber production by the DNR and other landowners that also manage for timber 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 retain the site in working forest lands. This proposal will not change the use of or affect the current/long term land use of areas associated with this sale.

- 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?

All units are zoned as Commercial Forest.

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

The Comprehensive plan designation is resource lands, forest for 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 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:

All units will be visible from SR 504 (Spirit Lake Hwy).

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

Since the majority of the landscape in this area is used for timber production (public and private), this proposal will generally blend in with the surrounding landscape. In addition, the HCP retention tree plan will aid in mitigating the visual effects of the regeneration harvest. There will be no harvest RMZ's and/or WMZ's.

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

Eight leave trees per acre were clumped and scattered throughout the stand to maintain structural diversity.

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?

There are no recreation 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 road building, 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 area was assessed by a DNR Cultural Resource Technician, reviewing historic maps and recorded cultural resources. Timber sale layout was conducted by a forester trained in Cultural Resource Identification.

- 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 presently-unknown skeletal remains, cultural resource, or both become known during project operations, DNR will comply with the Discovery of Skeletal Remains or Cultural Resources 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.

The site is accessible via SR 504 Spirit Lake Highway, Sediment Dam Road, private and DNR forest roads.

- 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 24 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:

None.

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

C. SIGNATURE

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: Keith Jones

Name of signee *for* **Jacob Harvey**

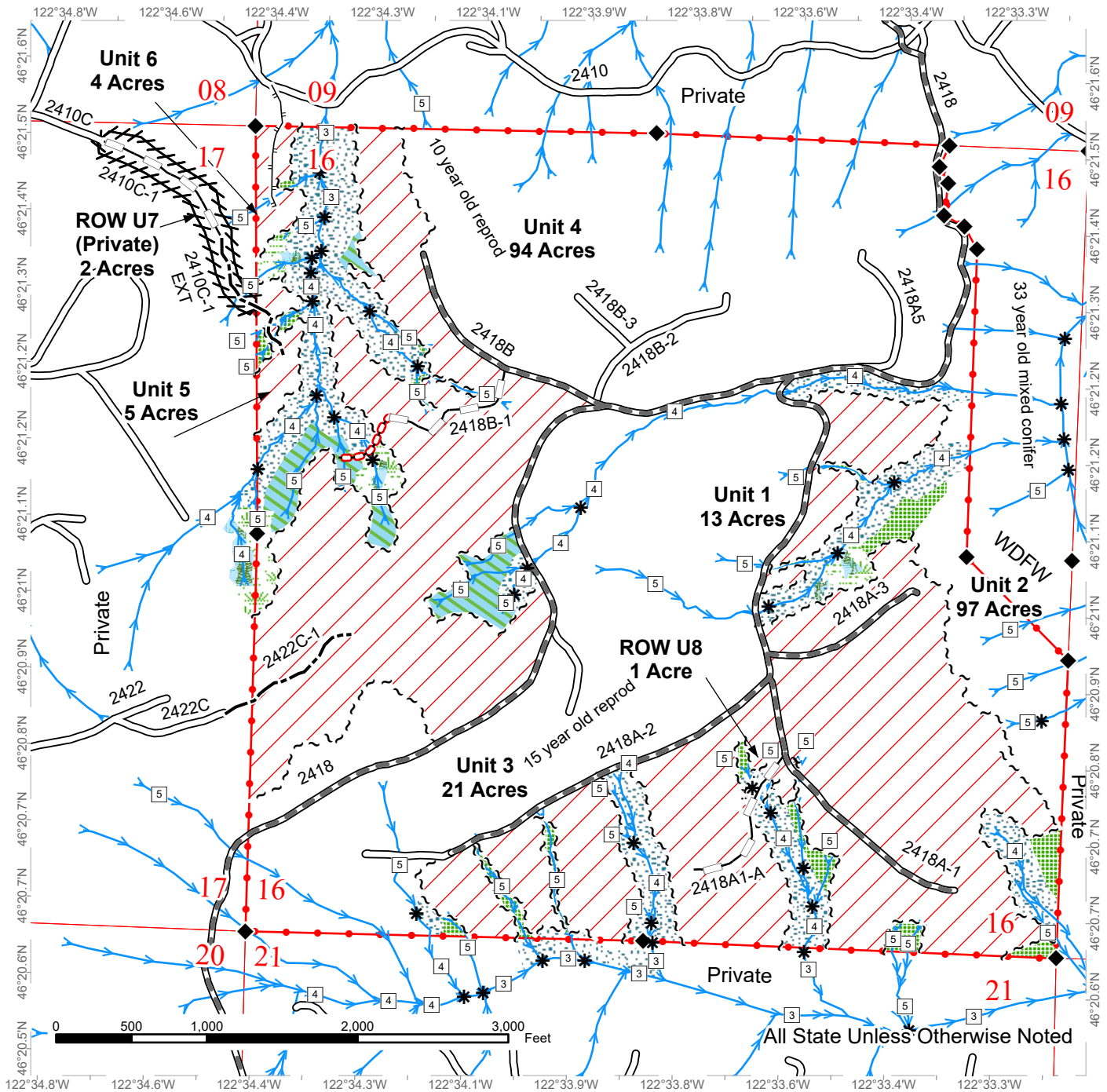
Position and Agency/Organization **Green Mtn Unit Forester**

Date Submitted: 3/28/2024

TIMBER SALE MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT #: 30-104392
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160

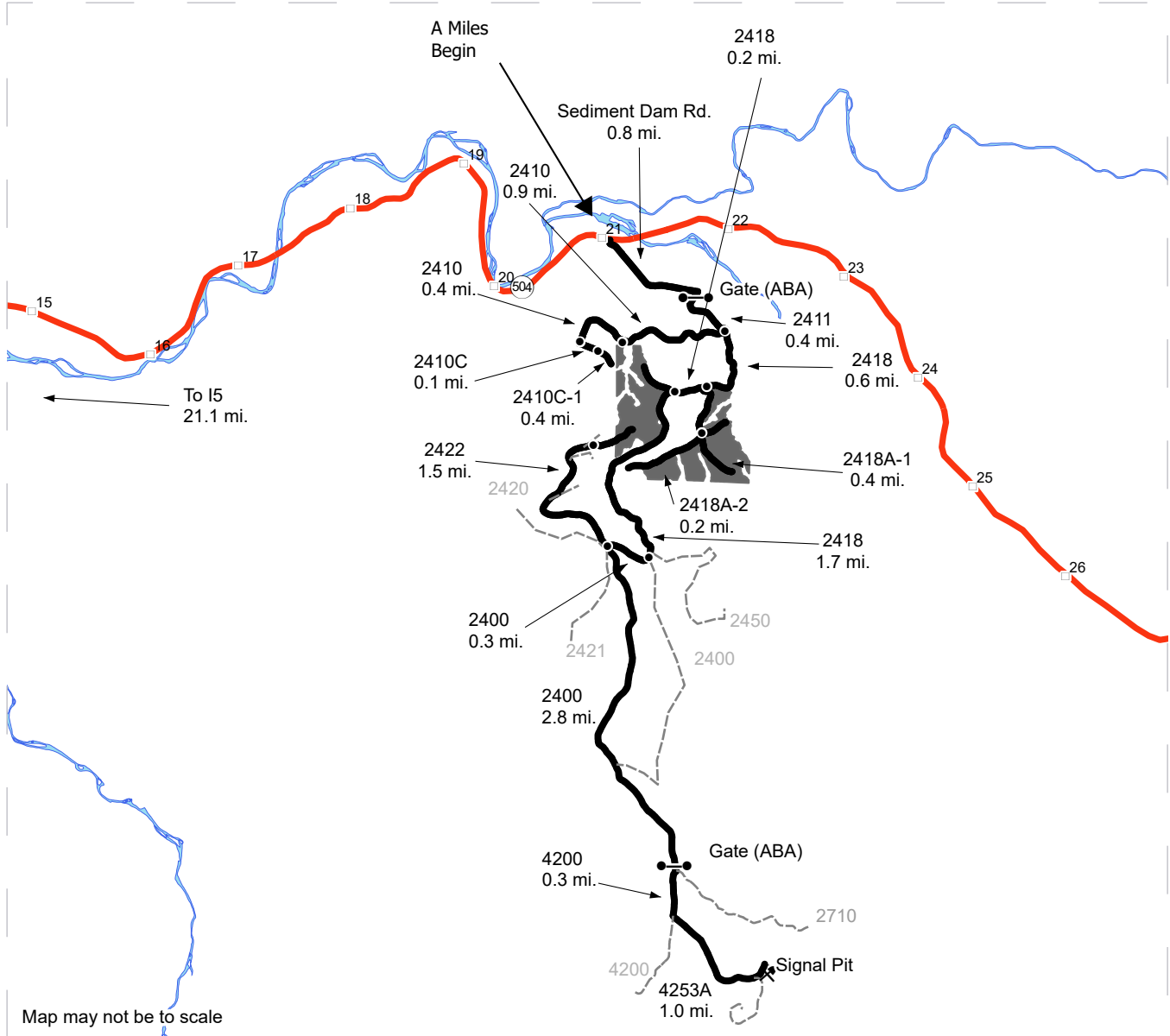


Variable Retention Harvest	Property Line	Optional Construction
Non Tradeable Leave Tree Area	Sale Boundary Tags	Optional Reconstruction
Leave Tree Area	Flag Line	Required Abandonment
Riparian Mgt Zone	Leave Tree Tags	Designated Skid Trail
Forested Wetland	Existing Roads	Streams
Wetland Mgt Zone	Required Pre-Haul Maintenance	Survey Monument

DRIVING MAP

SALE NAME: GHOST TOWN SORTS
AGREEMENT#: None
TOWNSHIP(S): T10R2E
TRUST(S): Common School and Indemnity (3)

REGION: Pacific Cascade Region
COUNTY(S): Cowlitz
ELEVATION RGE: 1160-2160



- Timber Sale Unit
- Haul Route
- View Only Route
- Milepost Markers
- Distance Indicator
- Gate
- Rock Pit

DRIVING DIRECTIONS:

From exit 49 off I-5, follow SR 504 east for 21.1 miles. Turn right onto Sediment Dam Rd., after 0.8 miles turn right onto the 2411 road and go through the gate (ABA). Continue on the 2411 for 0.4 miles to the 2411, 2410, and 2418 Junction.

Unit 1: From the Junction continue on the 2418 for 0.6 miles and turn left onto the 2418A-1. The unit will be on the left.

Unit 2: Continue on the 2418A-1 for 0.6 miles. The unit will be on the left.

Unit 3: From Unit 1 continue on the 2418A-1 for 0.4 miles and turn right onto the 2418A-2. Follow for 0.2, Unit 3 will be on the left.

Unit 4: From the 2418/2418A-1 Junction continue on the 2418 for 0.2 miles, Unit 4 will be on the right.

Unit 5: From Unit 6 continue on the 2410 for 0.4 miles and turn left onto the 2410C. After 0.4 miles the reconstruction and new construction of the road will start, walk the centerline to access Unit 5.

Unit 6: From the 2410/2411/2418 Junction turn right onto the 2410 and follow for 0.9 miles. A skid trail accessing Unit 6 will be flagged in orange fagging on the left.

Signal Pit: From Unit 4 continue on the 2418 for 1.7 miles to the 2400 junction. Turn right on the 2400 and continue for 0.3 miles to the 2400, 2421, and 2422 junction. Turn left to stay on the 2400 and follow for 2.8 miles to the gate. At the gate (ABA) continue straight onto the 4200. After 0.3 miles. turn left onto the 4253A and follow for 1 mile into the Signal Pit.

