

## *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:* **South Paw**  
*Agreement #* **30-103626**

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

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

**950 Farman Ave N**  
**Enumclaw, WA 98022**  
**Contact: Audrey Mainwaring**  
**Phone: (360) 825-1631**

4. Date checklist prepared: **04/05/2023**

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

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

a. *Auction Date:*

**10/24/2023**

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

**10/23/2025**

c. *Phasing:*

**Short portions of the Tiger Mountain Trail, South Tiger Traverse Trail and Horse Bypass Trail will be decommissioned and rerouted following the proposed harvest. See associated SEPA Trail Plan map for locations of trail decommissioning and re-route.**

**The Tiger Mountain Trail, South Tiger Traverse Trail and Horse Bypass Trail within the harvest unit will be re-opened following harvest activities, trail repair, and re-route of the portion of the trail affected by roadbuilding activities. The reroute is expected to be completed within six months of the harvest contract end date.**

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:* **The Variable Retention Harvest (VRH) units will have herbicide applied as needed to ensure establishment of planted seedlings.**

b. *Regeneration Method:* **Hand plant native conifers within three years of harvest in all VRH units to a density that exceeds Forest Practice standards.**

c. *Vegetation Management*: The VRH units will have vegetation management needs assessed from plantation ages one to eight. Vegetation control activities will be scheduled as needed, this includes hand-slashing of competing hardwoods and shrubs. Maple clumps may be treated as well.

d. *Other*: Thinning needs will be assessed at approximately 8-15 years following planting. Pre-commercial thinning, if needed, will be performed to retain a healthy, vigorous stand of native conifers in all VRH units.

Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary.

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: Issaquah Creek, E.F.; Issaquah Creek, N.F.; Tibbets Creek; Issaquah Creek

temp

sediment

completed TMDL (total maximum daily load)

*Landscape plan*: South Puget HCP Planning Unit Forest Land Plan Final EIS (2010), Tiger Mountain State Forest Management Plan (1986)

*Watershed analysis*:

*Interdisciplinary team (ID Team) report*:

*Road design plan*: Included in the Road Plan, dated 4/1/23

*Wildlife report*:

*Geotechnical report*:

*Other specialist report(s)*: Geologic Field Summary for the South Paw Timber Sale by Susie Wisheart, State Lands Licensed Engineering Geologist, dated 4/6/23; Proposed “Long Cut” - interpretation of landforms Tiger Mountain State Forest, King County, Washington Memo and Addendum Memo by Ana Shafer, Forest Resources Division Geologist, dated 9/22/17 and 10/5/17 respectively

*Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.)*:

*Rock pit plan*: Included in the Road Plan, dated 4/1/23

*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)

- 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 Special Concerns Report 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**
  - **DNR inventory layers, including RS\_FRIS**
- **Forest Stewardship Council and Sustainable Forestry Initiative certification Standards**
- **DNR's Plan for Climate Resilience**
- **2015 Snoqualmie Corridor Recreation Plan**
- **Field reviews conducted by State Lands Archaeologist and State Lands Geologist**
- **Remote reviews and communications by State Lands licensed engineering geologist, biologist, and archaeologist**
- **Guidelines for Logging Activities on or near BPA rights-of-way**
- **GIS analysis, including stand age, wildlife habitat, hydrology, geology, and soils**
- **Stand Origin Assessment for South Paw Timber Sale**
- **Long Cut Timber Sale FPA No. 2419548 pre-application review**

**Referenced documents may be obtained at the region office responsible for this proposal.**

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 # 2423544**       **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:*

**South Paw Timber Sale consists of 3 variable retention harvest (VRH) units and 2 right-of-way (ROW) units, removing approximately 3,098 MBF of merchantable timber on lands managed by the Washington State Department of Natural Resources within the Tiger Mountain State Forest. Over 110 acres were originally considered for harvest, and were reduced to 90 net harvest acres for the protection of streams, wetlands, inoperable areas, and potentially unstable slopes. This proposal is located in the Tiger Watershed Administrative Unit (WAU) on west- and south-facing slopes with steep to rolling topography.**

**The recreation trails in and immediately adjacent to the harvest units will be closed during active operations. Following harvest, the Tiger Mountain Trail, South Tiger Traverse Trail and Horse Bypass Trail will be cleaned out, and portions of these trails will be re-routed. The trail re-routes will be completed by DNR recreation staff. The trail work and re-routing that will take place is depicted on the SEPA Trail Plan Map.**

**Each unit net acreage is as follows:**

**VRH Unit 1: 13**

**VRH Unit 2: 10**

**VRH Unit 3: 62**

**ROW Unit 4: 2**

**ROW Unit 5: 2**

*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:* This proposal is a second growth natural regenerated mixed conifer and hardwood stand.**

<b>Unit</b>	<b>Origin Date</b>	<b>Major Timber Species</b>	<b>Type of Harvest</b>
<b>1</b>	<b>1920's</b>	<b>Douglas-fir, western redcedar, western hemlock</b>	Variable Retention Harvest
<b>2</b>	<b>1930's</b>	<b>Douglas-fir, western redcedar, western hemlock, bigleaf maple</b>	Variable Retention Harvest
<b>3</b>	<b>1920's</b>	<b>Douglas-fir, western redcedar, western hemlock, bigleaf maple</b>	Variable Retention Harvest
<b>4</b>	<b>2000's</b>	<b>Douglas-fir, western redcedar, western hemlock</b>	Right-of-Way
<b>5</b>	<b>2000's</b>	<b>Douglas-fir, western redcedar, western hemlock</b>	Right-of-Way

**The origin dates are derived from DNR's RS FRIS Combined origin year layer, historical information, and core samples collected in the field in Units 1-3.**

**Overall Unit Objectives:**

- 1) Create timber revenue for the Scientific School and State Forest Transfer trusts.
- 2) Retain legacy trees for the future stand and maintaining biological diversity, maintain the productivity of the site, and protect water quality, fish, and wildlife habitat.
- 3) Maintain public recreation opportunities in and adjacent to harvested area by cleaning out trails and performing trail re-route work post-harvest.

**Long Term Objectives:**

- 1) **Timber Stand Improvement:** a series of silvicultural activities will be scheduled as needed as the new stand develops. The primary objective of each treatment will be to stimulate wood production and create revenue for the trusts.
- 2) **Resource Protection:** the protection of soil productivity and water quality will remain priorities. The harvest prescription has been crafted to prevent soil erosion and limit soil compaction. Large coarse woody debris will be left to contribute to site productivity.
- 3) **Recreation:** Provide ongoing public recreation opportunities by rerouting portions of trails to long-term sustainable locations.

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		9,067	3.3	0
Reconstruction		0		0
Maintenance		11,933		0
Abandonment		4,209	1.5	0
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	1			
Cross-Drain Install/Replace	16			

\*Routine maintenance will occur on roads used throughout the life of this proposal.

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:

**Section 18, 30 & 31 in Township 23 North, Range 07 East, W.M.**

b. *Distance and direction from nearest town:*

**The town of Maple Valley is approximately 12 miles southwest by road of the proposal area and Issaquah is approximately 8 miles by road north of the proposal.**

### 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).*

**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 CO<sub>2</sub>; 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."

- 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 Habitat Conservation Plan (HCP) with the US Fish and Wildlife Service and the National Marine Fisheries Service. The applicable HCP strategies incorporated into this proposal include:

- Retaining Riparian Management Zones (RMZs) to protect water quality, stream bank integrity, stream temperatures, and provide downed woody debris.
- Wetland Management Zones (WMZs) will protect water quality, sensitive wetland soils, and maintain hydrologic function and natural water flow.
- Retaining a minimum of 8 trees per acre (greater than 10 inches in diameter at breast height) clumped and scattered throughout the units. This strategy will provide legacy elements within the new plantation and retains very large diameter, structurally unique trees.

Agency policies and guidelines from the Policy for Sustainable Forests incorporated into this proposal include:

- Assessing for and protecting significant historic, archaeological, and cultural areas.
- Generally limiting harvest units to a maximum of 100 acres.

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. The North Puget HCP Planning Unit will meet at least 10% older forest within conservation areas by 2070.

Current Forest Practice Rules also require that:

- Potentially unstable slopes and landforms are evaluated and rule-identified landforms with the potential for delivery to public resources are excluded from the sale area.
- Best management practices for road construction and maintenance is implemented



to prevent sediment delivery to typed waters and avoid improper drainage patterns that may create slope failures.

· After harvest, tree seedlings will be planted to reforest the site and may be complemented by the natural regeneration that is expected to occur.

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

**One bedrock hollow has been identified and protected with a non-tradeable leave tree area. Four potential inner gorges and eight potential bedrock hollow were bound out of the proposal area.**

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
TIGER	40654	10342	559	139	310

**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: **Hilly to steep slopes**

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

<b>WAU:</b>	TIGER
<b>WAU Acres:</b>	40654
<b>Elevation Range:</b>	22 - 3001 ft.
<b>Mean Elevation:</b>	877 ft.
<b>Average Precipitation:</b>	55 in./year
<b>Primary Forest Vegetation Zone:</b>	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)?

**133%. This slope can be found in Unit 3 and is approximately 200 feet wide at the widest part.**

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
8104	GRAVELLY LOAM
3827	V.GRAVELLY SANDY LOAM
0465	GRAVELLY SANDY LOAM
0051	GRAVELLY LOAM
1995	GRAVELLY SANDY 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.*

**There is one bedrock hollow within the sale area but is protected by a non-tradeable leave tree area. This non-tradeable leave tree area also protects a shallow slope failure below the bedrock hollow.**

**One potential landslide shows up on LiDar, but geologist field review found evidence to dispute their existence.**

**Several other bedrock hollows and inner gorges exist in the vicinity of the sale area, but will not be operated within or around. They are bound out and will not be impacted by harvest activity.**

**Two Category E RILs were found within Unit 3 based on multiple signs of instability, but were found to have no delivery potential and were evaluated to be safe to operate in.**

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

No  Yes, describe the proposed activities:

**Two Category E RILs were identified in Unit 3. This determination was based on the bench-like topography, a lack of mature conifer, bistol butting, and increased presence of immature hardwoods. Both RILs are located on a steep, rocky ridge. However, they were determined to have a very low risk for delivery potential based on the location of the nearest stream and the topography of the area. Timber harvesting will therefore take place in this area.**

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

**In order to protect the bedrock hollow within the proposal area, a non-tradeable leave tree area was placed around the feature, at least one crown width away from the edge of the feature as delineated.**

**An old grade below the bedrock hollow has one Category E RIL, which was identified as a shallow slope failure that sits below the bedrock hollow on the slope. The non-tradeable leave tree area that protects the bedrock hollow above it likewise protects the shallow slope failure.**

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

*Approx. acreage new roads: 3.3*

*Approx. acreage new landings: 1.5*

*Fill Source: BB Pit, native material from excavation during road building.*

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 2.3% of the site will remain as gravel roads.**

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

**Timber haul, road construction, and rock haul will not be permitted from November 1 to April 30, unless authority to do so is granted, in writing, by the Contract Administrator. If permission is granted to operate between November 1 and April 30, the Purchaser may be required to provide further protection of water, soil, roads, and other forest assets as described in the contract and road plan. Falling, yarding, and timber haul will be suspended during periods of wet weather, if in the opinion of the Contract Administrator the operation poses a threat to public resources. Ground-based equipment operating will be limited to track mounted machines to reduce compaction. The proposal is located on**

ground without delivery potential and will have little or no effect on water quality due to seasonal restrictions and harvest equipment restrictions and limitations.

Regular road maintenance will also help limit erosion. Roads remaining active after the forest practice will be on a regular maintenance schedule including but not limited to reshaping and culvert and ditch maintenance to insure proper water flow and redistribution to the forest floor. Water containing sediment will be pumped away from site and onto stable forest floor. The residual leave trees and vegetation following harvest will reduce erosion related to runoff. Gate 803 will be closed year-round (excluding during hauling activities) to reduce road maintenance and mitigate erosion damage.

## 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.

**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 CO<sub>2</sub> 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.

**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:

**All streams associated with this sale eventually flow into Issaquah Creek. Issaquah Creek flows into Lake Sammamish. Lake Sammamish flows into Lake Washington through the Sammamish 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)
Stream	3	1	187' RMZ
Stream	4	4	100' RMZ
Wetland <1 acre, >0.25ac	Forested	1	100' WMZ
Wetland <1 acre	Non-forested	1	187' WMZ

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

**All streams and wetlands adjacent to the sale have been appropriately buffered from harvest activity according to the HCP.**

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):

**Type 5 streams are protected with 30-foot Equipment Limitation Zones.**

**There is one Type 5 stream culvert replacement.**

**One wetland less than 0.25 acres is surrounded by a leave tree area, and will be protected.**

**Harvest will occur within 200 feet of streams, up to the buffer distances listed above.**

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

Indicate the source of fill material.

**None.**

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (*Include diversions for fish-passage culvert installation.*)  
 No       Yes, description:
- 5) Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.  
 No       Yes, describe activity and location:  
**Harvest within VRH Unit 3 lies within a 100-year floodplain.**
- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.  
**It is not likely that any waste materials will be discharged into the surface water(s). However, minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the adjacent surface water(s) as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site.**
- 7) *Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal's design?*  
 No       Yes, describe:  
**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)?*  
**TIGER = 5.5 (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 likely 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):

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.

**Timber haul, road construction, and rock haul will not be permitted from November 1 to April 30, unless authority to do so is granted, in writing, by the Contract Administrator.**

**The drainage and potential for sediment delivery points along the haul route associated with this proposal was assessed. Pre-haul maintenance will be completed with this proposal to ensure ditch water is deposited onto the forest floor and not allowed to flow directly into typed water.**

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.

**Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to**

**the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.**

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

No       Yes, describe:

*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:*

**Proper materials for spill cleanup as a result of equipment operation will be required to be on site if an accidental discharge should occur. No lubricants or chemicals will be disposed of on site. In addition, RMZ/WMZ buffers will add protection to surface waters.**

**Upon completion of harvest operations, water bars, if needed, will be constructed on the skid trails to control runoff. The remaining trees, vegetation, and topography will prevent surface water runoff. Water will be absorbed through the forest floor. The proposal will also be reforested with native conifer seedlings which will lessen impacts of excessive runoff into streams and wetlands.**

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

**No changes to drainage patterns are expected.**



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

#### 4. Plants

- a. Check the types of vegetation found on the site:

Deciduous tree:

Alder  Aspen  Birch  Cottonwood  Maple  Western Larch

Other:

Evergreen tree:

Douglas-Fir  Engelmann Spruce  Grand Fir  Lodgepole Pine

Mountain Hemlock  Noble Fir  Pacific Silver Fir  Ponderosa Pine

Sitka Spruce  Western Hemlock  Western Redcedar  Yellow Cedar

Other:

Shrubs:

Huckleberry  Rhododendron  Salmonberry  Salal

Other: **Oregon grape**

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).

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

**To the north of Unit 1 is a 2-year old regenerated stand of Douglas-fir.**

**To the west of Unit 1 is mixed conifer stand with an origin year of 1910.**

**To the south of Unit 1 is a cleared area for a BPA powerline corridor.**

To the north of Unit 2 is a cleared area for a BPA powerline corridor.  
To the south and east of Unit 2 is a 20-year old regenerated stand of Douglas-fir and western redcedar.  
To the west of Unit 2 is a mixed conifer and hardwood stand with an origin year of 1980.

To the north of Unit 3 is 20-year old regenerated Douglas-fir and western redcedar stand.  
To the south and west of Unit 3 is a mixed hardwood and conifer stand with an origin year of 1965.  
To the east of Unit 3 that is not private property is a mixed conifer stand with an origin year of 1920.

- 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:  
**The VRH units will be replanted with native conifer species. Leave tree clumps were selected to protect areas that hold unique ecological values and also provide an accurate representation of pre-harvest stand conditions. There are also individually marked trees retained throughout the proposal area. Leave trees were selected from the largest diameter class and dominant crown class as well as for wind firmness, good form, species diversity, wildlife value and protection of existing snags. A total of 8 trees per acre will be retained after harvest. Seeds for tree seedlings will come from locally adapted sources. Site preparation will help control noxious weeds onsite before planting.**
- e. List all noxious weeds and invasive species known to be on or near the site.  
**Himalayan blackberry, evergreen blackberry, and holly were observed onsite. Scotch broom and woodland groundsel are also in the area. For a complete list of noxious weeds in King County please visit the website below:**  
<http://www.kingcounty.gov/environment/animalsAndPlants/noxiousweeds/laws/list.aspx>

## 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: **Mountain beaver, Douglas Squirrel.**
- fish:  
 bass  herring  salmon  shellfish  trout

other:

*amphibians/reptiles:*

frog  lizard  salamander  snake  turtle

other:

*unique habitats:*

balds  caves  cliffs  mineral springs  oak woodlands  talus slopes

other:

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

**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 impacts are anticipated as a result of this proposal.**

Proposed measures to preserve or enhance wildlife, if any:

**This proposal is compliant with the HCP Long-term Conservation Strategy Marbled Murrelet, per PR 14-004-320.**

**This sale is not located in any Owl Areas or in a landscape managed for Nesting, Roosting, Foraging, or Dispersal Management, and does not meet Young Forest Marginal habitat criteria. This proposal is available for the full range of silvicultural activities permitted under the Habitat Conservation Plan in compliance with PR 14-004-120.**

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

Species/Habitat: **Aquatic Habitat**

Protection Measures: **HCP compliant RMZs and WMZs. This timber sale proposal conforms to commitments under the 1997 DNR Habitat Conservation Plan (HCP). The HCP includes a number of strategies to enhance and preserve wildlife over time. Specific to this proposal is the riparian strategy to conserve and protect habitat for species that are dependent on aquatic and riparian habitat and quality leave tree retention, which may provide critical elements for upland species and preserve long term site productivity through the maintenance of forest processes.**

Species/Habitat: **Upland Habitat**

Protection Measures: **HCP compliant leave tree retention. Leave trees retained are wind firm and well-formed dominant and co-dominant trees representing the original diversity of species. Additionally, individual species and tree types known to have high wildlife use have been retained. Trees with unique characteristics such as forked or damaged tops have been incorporated within many of the leave tree groups and individually selected throughout the proposal to provide current and future habitat for a variety of wildlife species including woodpeckers,**

**sapsuckers, and other cavity dwellers. Large hard and soft snags with high evident use and cavities will also be retained where possible.**

- d. List any invasive animal species known to be on or near the site.  
**With aquatic habitat near the proposal site, the invasive American bullfrog may be present. None have been found during field reconnaissance. Barred owls are known to be in the vicinity and are considered invasive by the US Fish and Wildlife Service.**

## **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.
- 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, will be required on site during fire season.**

**Extreme Hazard Abatement is required along the property line of U3, within 200 feet of any structures. Slash will be removed to this distance following harvest.**

*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 road-building equipment, 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:  
**Falling and yarding will be limited to weekdays from 7 am to 7 pm to reduce disturbance to nearby residences adjacent to Unit 3.**

**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: The site of the proposal is currently used for forest production and recreation. Adjacent to the proposal is commercial communications lease, BPA powerlines, and residential properties.**

**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 that also provides recreation opportunities. This proposal will retain the site in working forest and recreation 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.  
**BPA towers, communications tower, and residential structures are adjacent to the proposed harvest and trail activities.**
- d. Will any structures be demolished? If so, what?  
**No.**
- e. What is the current zoning classification of the site?  
**Forestry**
- f. What is the current comprehensive plan designation of the site?  
**Forest Production**
- 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?
  - 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:  
**The proposal may be seen from the residential area adjacent to Unit 3 along SE Tiger Mountain Road. Additionally, it will be visible from the communities of Hobart and Maple Valley, as well as from Highway 18 and recreation trails on Tiger Mountain State Forest.**
  - 2) *How will this proposal affect any views described above?*  
**The proposal will remove vegetation from the landscape until the next generation of trees have grown past the green-up stage. An additional 2 TPA have been left on Units 1 and 3 as leave trees, for a total of 10 leave trees per acre in these units. This will help to mitigate the visual impact on the landscape.**
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**The harvest units are various sizes and separated by other forested areas. Within the harvest units, leave tree areas will provide mature tree components dispersed throughout the units. The VRH harvest units will be regenerated with native seedlings, planted conifer seedlings and natural regeneration of various native species.**

## 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?  
**Mountain biking, hiking and equestrian recreation trails, and mushroom picking. Trails immediately adjacent and within the harvest units and proposed roads of this proposal include the Tiger Mountain Trail, South Tiger Traverse Trail, and Horse Bypass.**
- b. Would the proposed project displace any existing recreational uses? If so, describe.  
**There will be temporary disruptions to recreational use during periods of forest road construction, harvesting, hauling and trail reroute work. The Tiger Mountain Trail, South Tiger Traverse Trail and Horse Bypass will be temporarily closed during active operations associated with the South Paw harvest. The trails within the harvest units that will not be decommissioned will have logging debris cleaned from the trail as part of the harvest contract following harvest operations.**

**Portions of the Tiger Mountain Trail, South Tiger Traverse Trail, and Horse Bypass Trail will be decommissioned. Segments of these trails will be rerouted by DNR recreation staff. These trail reroutes are expected to be completed within six months of the harvest contract end date. See associated SEPA Trail Plan map for locations of trail decommissioning and re-route.**

**DNR recreation staff will conduct repairs on the existing trails as necessary.**

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:  
**Temporary trail closures will be only for duration of time necessary to maintain public safety during active operations and perform trail cleanout. Short-term impacts to recreation will be communicated to users through signage placed on trails accessing the harvest area and through social media communications. The removal of trees from the harvest area will provide improved views of the greater Puget Sound Region to trail users.**

**Reroutes of trail segments will improve user experience and provide new locations for long-term sustainability of the trails and minimize potential for erosion.**



### 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.  
**None.**
- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.  
**None.**
- 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.  
**A Cultural Resources Technician (CRT) conducted a remote review on 2/6/2023 and found no known sites within the sale boundary. Field reconnaissance by foresters, the CRT, and the State Lands Archaeologist on 2/15/2023 found no evidence of cultural resources within the proposal area.**
- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.  
**If a presently-unknown cultural resource is discovered during project operations, DNR will comply with PR 14-004-010, Discovery of Skeletal Remains or Cultural Resources.**

### 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 proposal is accessed by State Route 18, then forest roads from Tiger Summit. See Driving Map for more information.**
- 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 6 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:

**Power and an unused fiber line run under the 1000 Road. Communication equipment is adjacent to the powerlines. No utilities will be utilized for this proposal.**

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: Brandon Mohler

Name of signee **Brandon Mohler**

Position and Agency/Organization **State Lands Assistant Region Manager/DNR**

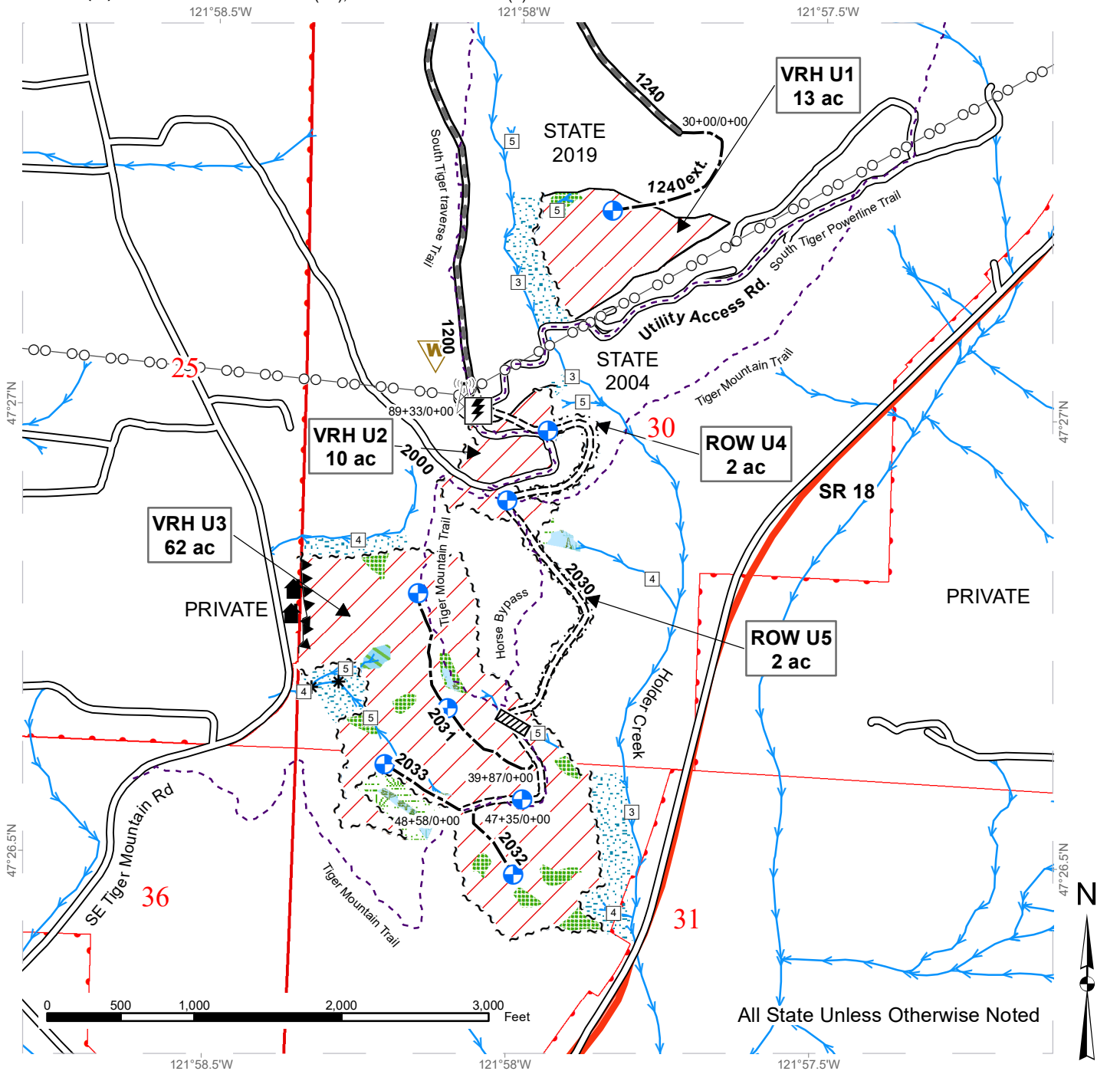
Date Submitted: 7/13/2023

AEM 7/12/23

# TIMBER SALE MAP

**SALE NAME:** SOUTH PAW VRH  
**AGREEMENT #:** 30-103626  
**TOWNSHIP(S):** T23R7E  
**TRUST(S):** Scientific School (10), State Forest Transfer (1)

**REGION:** South Puget Sound Region  
**COUNTY(S):** King  
**ELEVATION RGE:** 640-1600

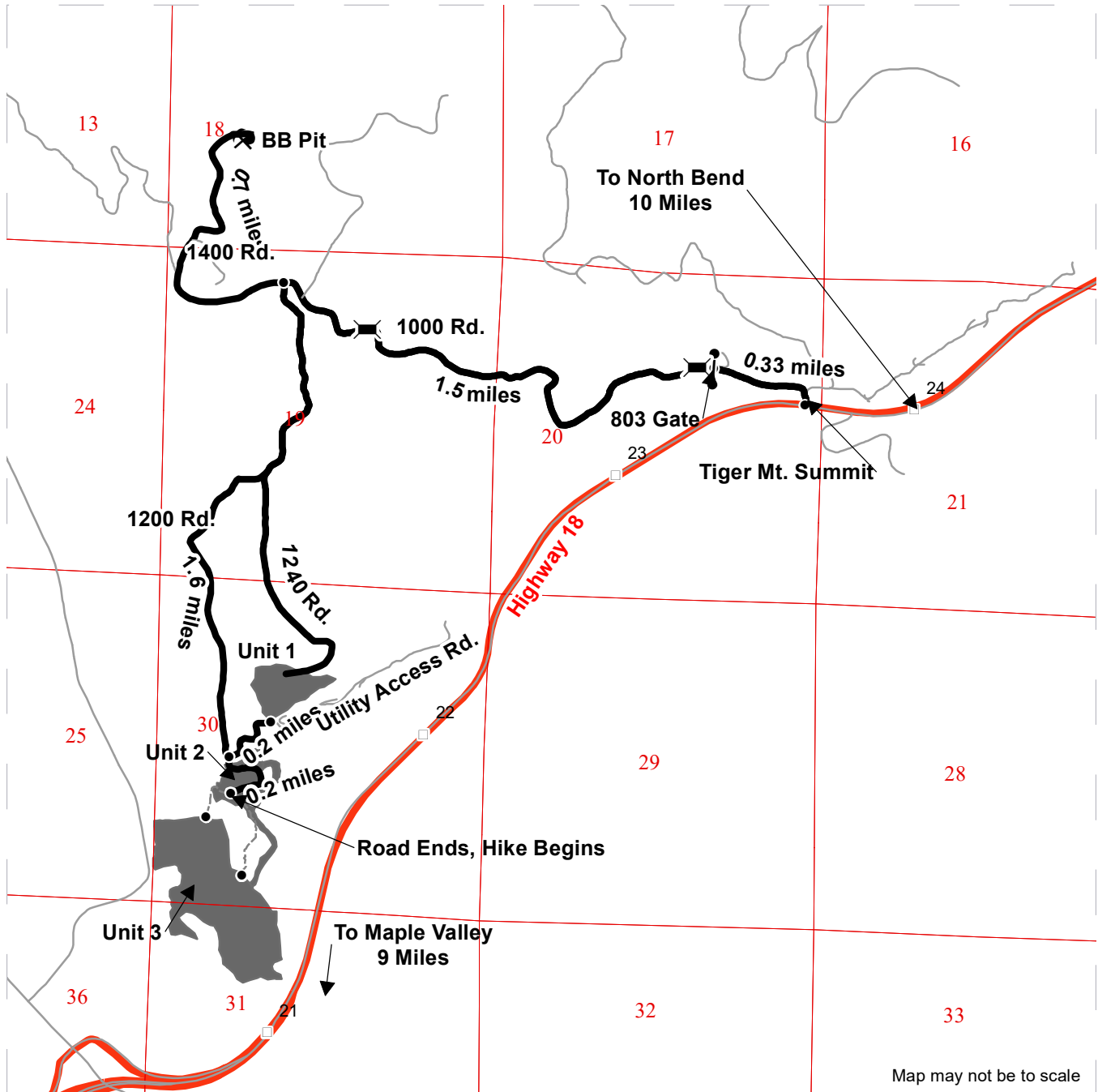


Variable Retention Harvest	Sale Boundary Tags	Power Lines	Designated Trails
Non-Tradeable Leave Clump	Right of Way Tags	Communication Tower	Streams
Leave Tree Area	Property Line	Culvert	Stream Type
Riparian Mgt Zone	Timber Type Change	Landing - Proposed	Stream Type Break
Forested Wetland	Existing Roads	Structure	
Wetland Mgt Zone	Required Pre-Haul Maintenance	Utility Box	
DNR Managed Lands	Required Construction	Waste Area	
	Optional Construction		
	Hazard Abatement Area		

# DRIVING MAP

**SALE NAME:** SOUTH PAW VRH  
**AGREEMENT#:** 30-103626  
**TOWNSHIP(S):** T23R7E  
**TRUST(S):** Scientific School (10), State Forest Transfer (1)

**REGION:** South Puget Sound Region  
**COUNTY(S):** King  
**ELEVATION RGE:** 640-1600



- Timber Sale Unit
- Haul Route
- Other Road
- View Only Route
- Milepost Markers
- Bridge
- Distance Indicator
- Gate (Master 786)
- Rock Pit

**DRIVING DIRECTIONS:**

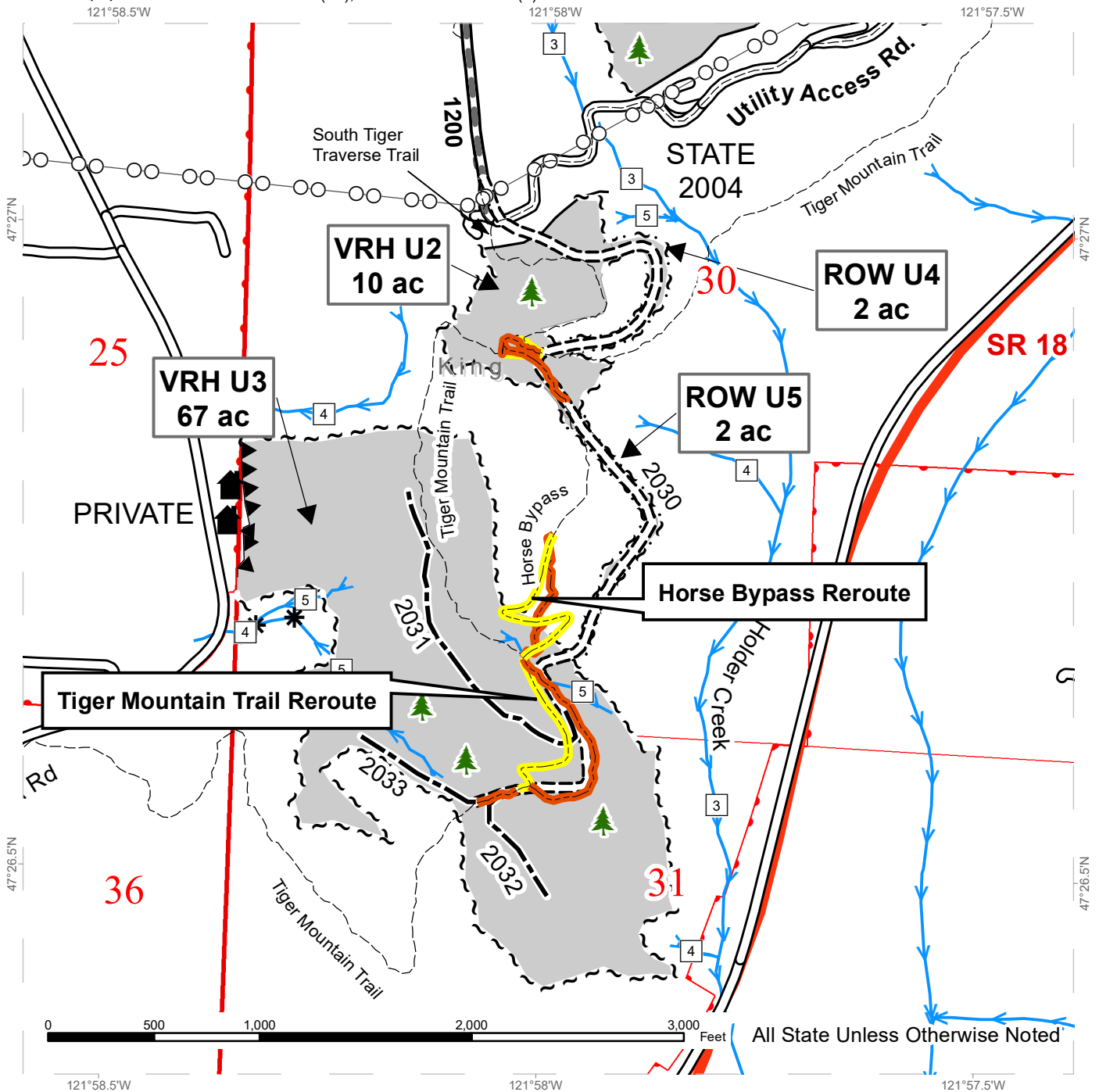
At the Tiger Mountain summit, turn off the highway and take the 1000 road to the left and drive through the locked gate (Master key 786) at 0.3 miles on the 1000 Rd. Continue on the 1000 Rd. for approximately 1.5 miles, and take a left onto the 1200 Rd. Follow the 1200 Rd. for approximately 1.6 miles. Turn left onto the BPA access Rd. Follow for another 0.2 miles to the southwest corner of Unit 1. For access to continue on the 1200 Rd. for another 0.2 miles. Park at the road/trail intersection and hike into Units 2 and 3.



# SEPA TRAIL PLAN MAP

**SALE NAME:** SOUTH PAW VRH  
**AGREEMENT #:** 30-103626  
**TOWNSHIP(S):** T23R7E  
**TRUST(S):** Scientific School (10), State Forest Transfer (1)

**REGION:** South Puget Sound Region  
**COUNTY(S):** King  
**ELEVATION RGE:** 640-1600



Cleanout	Public Land Survey Townships	Streams
Planned trail decommissioning	Public Land Survey Sections	Stream Type
Planned trail reroute	DNR Managed Lands	Stream Type Break
Trail - existing	Hazard Abatement Area	Leave Tree Area <1/4-acre
South Paw harvest unit	Power Lines	Structure
	Existing Roads	
	Required Pre-Haul Maintenance	
	Required Construction	
	Optional Construction	

