

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: **Saddle Mountain** *Agreement #* **30-096776**

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

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

**Washington State Department of Natural Resources
South Puget Sound Region
950 Farman Avenue North
Enumclaw, WA 98022
Audrey Mainwaring
(360) 802-7001**

4. Date checklist prepared: **07/09/2018**

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

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

- a. Auction Date:* **5/28/2019**
- b. Planned contract end date (but may be extended):* **09/30/2020**
- 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.

Timber Sale:

a. Site preparation:

A post-harvest herbicide application is planned. Treatment needs will be assessed using current vegetation management guidelines.

b. Regeneration Method:

Units 1 and 2 will be hand planted within two years of contract expiration.

c. Vegetation Management:

Treatment needs will be assessed using current vegetation management guidelines.

d. *Thinning:*

Surveys will be conducted to determine Pre-Commercial Thinning (PCT) needs at 8-12 years of age. Information from these surveys will be used to schedule PCT.

Roads: Road maintenance including grading, ditch cleanout and repair or replacement of culverts will occur as necessary on the existing roads.

Rock Pits and/or Sale: State owned Saddle Pit will be used for this proposal, which will remain open for future use.

Other: One active brush lease is in the vicinity of the proposal.

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

- 303 (d) – listed water body in WAU: temp sediment completed TMDL (total maximum daily load):
- Landscape plan:
- Watershed analysis:
- Interdisciplinary team (ID Team) report:
- Road design plan: **Included in the Road Plan, dated August 30, 2018**
- 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, dated August 30, 2018.**
- Other: **Habitat Conservation Plan (HCP), Policy for Sustainable Forests, TRAX, Soil Survey, Forest Resource Inventory System (FRIS), GIS Analysis, Washington Department of Fish and Wildlife (WDFW), Straits Planning Unit Marbled Murrelet Reclassified Habitat Model, RMAP number 240027, communications with State Lands Licensed Engineering Geologist-in-training, and Region Biologist, and Alternate Leave Tree Strategy email from Region Biologist Alan Mainwaring, dated November 8, 2018.**

Above referenced documents may be obtained from the South Puget Sound Region office in Enumclaw for review during the SEPA comment period.

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 FHPA Burning permit Shoreline permit Incidental take permit
- Existing HPA Other: **Board of Natural Resources approval.**

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:*

The Saddle Mountain Timber Sale proposal consists of two variable retention harvest units within the Hoodspout State Forest in Mason County. The original area considered for harvest was greater than 170 acres and reduced to 166 gross acres and 155 net acres due to protection measures (leave tree clumps) for streams, potentially unstable slopes and existing road acreage. Approximately 6,202 MBF of merchantable timber will be removed as part of this proposal.

Road work associated with this proposal consists of 45,695 feet of required pre-haul maintenance and 4,162 feet of optional pre-haul maintenance.

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

The stand is composed primarily of Douglas-fir, western hemlock, western red cedar, big-leaf maple, red alder and black cottonwood. Small root rot pockets are scattered in units. The stand was naturally regenerated from 1935-1948. The variable retention harvest is approximately 8 percent ground-based logging and 91 percent cable logging.

The objective of this proposal is to produce revenue for Common School (03) and Capital Grant (07) through the production of saw logs, poles and pulp material.

c. *Road activity summary. See also forest practice application (FPA) for maps and more details.*

Type of Activity	How Many	Length (feet) (Estimated)	Acres (Estimated)	Fish Barrier Removals (#)
Construction		0	0	0
Reconstruction		0		0
Abandonment		0	0	0
Bridge Install/Replace	0			0
Culvert Install/Replace (fish)	0			0
Culvert Install/Replace (no fish)	4*			

*** 4 permanent cross drain culverts**

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 maps on DNR website: <http://www.dnr.wa.gov/state-environmental-policy-act-sepa>. Click on the appropriate region under "Current SEPA Actions – Timber Sales.")

a. Legal description:

**T23N R4W S14 – Saddle Rock Pit
 T23N R4W S15 – Unit 1 and 2
 T23N R4W S16 – Unit 1
 T23N R4W S21 – Unit 1
 T23N R4W S22 – Unit 1**

b. Distance and direction from nearest town (include road names):

This proposal area is located approximately 10 miles northwest of Hoodspport via SR 119.

From Hoodspport: Drive north on SR-119 8.8 miles. Turn east on 1240 Rd. and drive 1.6 miles. Turn east on 1200 Rd. And drive 0.5 Miles to Unit 1. Continue on the 1200 Rd. 1.8 miles to the Saddle pit. At the Pit turn west on the 1260 Rd. for 1.8 Miles to Unit 2

c. Identify the names of all watershed administrative units (WAU). See also landscape/WAU map on DNR website: <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> under the topic "Current SEPA Project Actions – Timber Sales."

WAU Name	WAU Acres	Proposal Acres
LILLIWAUP	30,346	166
Sub Basin Name	Sub Basin Acres	Proposal Acres
LILLIWAUP RIVER	9,340	76
KVALE CREEK	3,032	90

13. Discuss any known future activities not associated with this proposal that may result in a cumulative change in the environment when combined with the past and current proposal(s). (See digital ortho-photos for WAU and adjacency maps on DNR website <http://www.dnr.wa.gov/state-environmental-policy-act-sepa> for a broader landscape perspective.)

According to the Lilliwaup watershed report, generated on August 2nd, 2018, there are 30,346 acres in the Lilliwaup WAU. 35 percent is private and other public ownership, 8 percent federally owned, 1 percent tribal and 56 percent is in state trust land ownership. The DNR manages 16,828 acres of state trust land. In the past seven years, DNR has harvested about 989 acres in regeneration harvests. All regeneration harvests have been reforested. The harvest rate is about two percent of the state land base. Private lands have had approximately 907 acres under forest practice permits

for even-aged forest practice activities over the last seven years. This is less than two percent per year of the acreage of non-state ownership in the WAU. Future harvests in the WAU for state ownership will continue at or below the same rate.

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 WAU or sub-basin(s)(landforms, climate, elevations, and forest vegetation zone).*

This proposal lies within the Lilliwaup WAU. There are twelve sub-basins within the Lilliwaup WAU, with elevations ranging from sea level to 3,999 feet and with landforms ranging from steep mountains to glacial terraces. Rain-on-snow zones are at the higher elevations with precipitation ranging from 60 to 100 inches per year.

The major timber types within the Lilliwaup WAU are Douglas fir with western hemlock, western red cedar and western white pine. Red alder is the major hardwood species with some big leaf maple, black cottonwood and Pacific madrone. The understory is primarily salal and huckleberry with ferns, grasses and mosses in higher areas. Most of the old growth Douglas fir and western hemlock are in federal ownership. Timber on state and private land consists primarily of second growth Douglas fir.

The majority of this WAU was logged by railroad in the twenties and early thirties. The age of the timber ranges from two years to over eighty years with the majority of the age running in the sixty to seventy year age class as a result of natural regeneration after the logging.

The following list is a breakdown of precipitation ranges and rain-on-snow acreages found within the WAU.

PRECIPITATION

Precipitation in Inches/Year*	Acres
60	2,165
70	14,874
80	9,667
90	2,502
100	1,138

**Data Source & Description: Precipitation (PRECIP) data. Data shows average yearly precipitation in inches. Data was compiled in 1973 by US Dept. of Commerce, NOAA from 1:2,000,000 source data.*

Weighted average precipitation for the WAU is 75 inches per year.

RAIN ON SNOW

Zone	Acres	% of WAU
Lowland Zone	20,624*	68.0
Rain-Dominated Zone	6,372*	21.0
Peak Rain-On-Snow Zone	3,298*	10.9

**The total acreage in the rain on snow zones do not reflect the current total WAU acres possibly due to updates in progress in the WAU data.*

- 2) *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*

None.

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

Approximately 87 percent slope.

- 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 a roll-up of general soils information for the soils found in the entire sale area. It is only one of several site assessment tools used in conjunction with actual site inspections for slope stability concerns or erosion potential. It can help indicate potential for shallow, rapid soil movement, but often does not represent deeper soil sub-strata. The actual soils conditions in the sale area may vary considerably based on land-form shapes, presence of erosive situations, and other factors. The state soil survey is a compilation of various surveys with different standards.

State Soil Survey #	Soil Texture or Soil Complex Name	% Slope
8223	V.GRAVELLY LOAMY SAND	60-90
3892	V.GRAVELLY SILT LOAM	60-90
2977	STONY SANDY LOAM	15-40
2973	GRAVELLY SANDY LOAM	5-15
2975	GRAVELLY SANDY LOAM	40-60
6788	ROCK OUTCROP-KILCHIS-COMPLEX	60-90

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

Yes.

1) *Surface indications:*

A DNR State Lands Geologist-In-Training has identified one bedrock hollow, questionable bedrock hollow, and one Category E RIL debris avalanche around Unit 1, and one inner-gorge, one bedrock hollow, and one Category E RIL in Unit 2. A small scale shallow sliding of thin soils over weathered bedrock is also located within Unit 1 and 2. There is low delivery potential from this latter feature.

2) *Is there evidence of natural slope failures in the sub-basin(s)?*

No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

Evidence of natural slope failures, both shallow and deep seated, can be found scattered throughout the sub-basins within the Lilliwaup WAU. Shallow landslides that occur within the sub-basins most often occur in steep, tightly convergent terrain, but can also occur in planar or divergent topography. Naturally occurring shallow and deep-seated landslides can be found along streams particularly in the over-steepened glacial sediments prevalent in the lower reaches of the WAU. They can also occur within the soils formed atop the volcanic rocks where the topography is steep and tightly convergent.

3) *Are there slope failures in the sub-basin(s) associated with timber harvest activities or roads?*

No Yes, type of failures (shallow vs. deep-seated) and failure site characteristics:

Associated management activity:

There are several shallow failures noted within the WAU as a result of past road building practices.

4) *Is the proposed site similar to sites where slope failures have occurred previously in the sub-basin(s)?*

No Yes, describe similarities between the conditions and activities on these sites:

Historically, landslides may have occurred as a result of poor road construction and lack of maintenance on historic logging roads/railroad grades. However, current Best Management Practices (BMPs) and Forest Practice Rules have reduced the risk of these occurrences. No harvest activities will occur on Forest Practice rule-identified landforms or areas identified as potentially unstable.

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

The inner gorge and bedrock hollows located and small slides around harvest units are protected with leave trees or excluded from the harvest area.

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

Approx. acreage new roads: 0 Approx. acreage new landings: 3 Fill Source: Saddle Rock Pit

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

Minor erosion could occur from exposed soil on roads, landings and skid trail surfaces.

- 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):*

About two percent in 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.)*

Rutting restrictions and diverting water off the road surfaces onto the forest floor will minimize the potential for erosion. The existing roads will be maintained to help prevent erosion. At any time during periods of wet weather, the yarding of timber, road construction, and hauling of logs will not be permitted if excessive rutting may occur.

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.

Dust from log truck traffic on proposed roads and small amounts of engine exhaust from logging trucks and equipment.

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

No.

- c. Proposed measures to reduce or control emissions or other impacts to air, if any:

None.

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 timber sale map available at DNR region office, or forest practice application base maps.)

- a. Downstream water bodies:

Lilliwaup River, Lilliwaup Swamp, Price Lake, Kvale Creek and the Hood Canal.

- 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	4	1	100 foot
Stream	5	7	30 foot Equipment Limitation Zone (ELZ)
Wetland	Forested, Greater than 1 acre	1	172 foot

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

All streams were typed using the water typing system for forested State Trust HCP Lands and are protected with HCP buffers as shown above. No wind buffers were applied. Wetland is protected with HCP buffer as shown above.

- 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 map available at DNR region office.) Description (include culverts):

All described waters will have harvest activity within 200 feet, however, it will be limited to the distances listed in the table 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 location:

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No Yes, type and volume:

- 7) Does the sub-basin contain soils or terrain susceptible to surface erosion and/or mass wasting? What is the potential for eroded material to enter surface water?

The Lilliwaup WAU contains a small percentage of terrain that is highly susceptible to erosion. Some eroded material near streams may enter surface water but yarding and operational restrictions will reduce the possibility of this occurrence.

The majority of the soils that are susceptible to mass wasting and erosion are located on the steeper side slopes of the major streams of the WAU. The potential for eroded material to enter surface water within this proposal area is minimal due the HCP compliant buffers described above.

- 8) Is there evidence of changes to the channels in the WAU and sub-basin(s) due to surface erosion or mass wasting (accelerated aggradations, erosion, decrease in large organic debris (LOD), change in channel dimensions)?

No Yes, describe changes and possible causes:

The steep incised channels continually have minor slope failures within the WAU.

Larger failures have been observed in other portions of the WAU, particularly within the glacial sediments in the lower reaches of the WAU. This is a natural process and is often unrelated to forest practice activities.

9) *Could this proposal affect water quality based on the answers to the questions 1-8 above?*

No Yes, explain: **The erosion control measures and operation procedures outlined in B.1.d.5. and B.1.h. are designed to avoid sediment delivery. Due to preventative measures required during the project, activities associated with this project are not expected to affect water quality.**

10) *What are the approximate road miles per square mile in the WAU and sub-basin(s)? Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?*

No Yes, describe:

Lilliwaup WAU ROADS

Land Owner	Miles of Road	Miles per Square Mile
Non-DNR	129.3	2.7
DNR	167.4	3.5
Total	296.7	6.3

11) *Is the proposal within a significant rain-on-snow (ROS) zone? If not, STOP HERE and go to question B-3-a-13 below. Use the WAU or sub-basin(s) for the ROS percentage questions below.*

No Yes, approximate percent of sub-basin(s) in significant ROS zone:

Lilliwaup WAU

Sub-basin #16020402: 19.5 percent

Sub-basin #16020405: 17.3 percent

Or, approximate percent of WAU:

12) *If the proposal is within the significant ROS zone, what is the approximate percentage of the WAU or sub-basin(s) within the significant ROS zone (all ownerships) that is (are) rated as hydrologically mature?*

The following are percentages of DNR managed lands only in both ROS and snow-dominated zones:

Lilliwaup WAU

Sub-basin #16020402: 20.4 percent

Sub-basin #16020405: 93.4 percent

13) *Is there evidence of changes to channels associated with peak flows in the WAU and sub-basin(s)?*

No

Yes, describe observations in the WAU and in the sub-basin(s):

Some streams within the WAU have experienced accelerated aggradations in low gradient reaches. In general, the stream systems currently contain excess fine sediments. This occurs primarily from natural storm events.

14) *Based on your answers to questions B-3-a-10 through B-3-a-13 above, describe whether and how this proposal, in combination with other past, current, or reasonably foreseeable proposals in the WAU and sub-basin(s), may contribute to a peak flow impact.*

Any change in peak flow impact as a result of removal of the forest canopy is likely to be short-term due to replanting of the harvest area. Potential runoff will be minimized with proper culvert installation, road construction, and regular maintenance.

15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*

No

Yes, possible impacts:

16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*

Some minor runoff may occur from roads during peak flows, but cross-drain culverts have been designed and will be installed to direct ditch water onto the forest floor prior to entering surface water. Periodic road maintenance and road decommissioning or abandonment will prevent failures. Reforestation and leave trees will reduce potential and duration of peak flow impact

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

July 2016

from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No.

- 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.

Insignificant amounts of oil and other lubricants could be inadvertently spilled as a result of heavy equipment use. Spill kits are required onsite during operations for immediate cleanup and control of potential spills. No lubricants will be disposed of on site.

- 3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*

No Yes, describe:

a. *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.

Existing cross drains and ditch outs disperse storm water from the ditches onto the forest floor. Frequent spacing of culverts and ditch outs will minimize the distance water flows before being dispersed onto the forest floor. Consequently, no surface or ditch water flows directly into existing stream channels. No water runoff will be channeled onto exposed soils.

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

No Yes, describe:

a. *Note protection measures, if any.*

The forested buffers protecting the riparian and wetland management zones will prevent waste materials from entering surface waters. No lubricants or containers will be disposed of on site.

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

New culverts in the roads will increase the ditch interception, decrease degradation, and will improve hydrologic connectivity to natural drainages.

- d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Previously mentioned buffers protecting streams will minimize the risk of surface runoff or sediment delivery impacts. Reforestation will occur within two years following harvest in Units 1 and 2

(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)

4. Plants

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

deciduous tree:

alder, maple, aspen, cottonwood, western larch, birch,
other: **Cherry**

evergreen tree:

Douglas fir, grand fir, Pacific silver fir, ponderosa pine, lodgepole pine, western hemlock, mountain hemlock, Englemann spruce, Sitka spruce, red cedar, yellow cedar, other:

shrubs:

huckleberry, salmonberry, salal, other: **Vine maple, rhododendron.**

grass

pasture

crop or grain

wet soil plants:

cattail, buttercup, bullrush, skunk cabbage, devil's club,
other:

water plants:

water lily, eelgrass, milfoil, other:

other types of vegetation: **Ferns.**

plant communities of concern:

- b. What kind and amount of vegetation will be removed or altered? *(See answers to questions A-11-a, A-11-b, B-3-a-1-b and B-3-a-1-c. The following sub-questions merely supplement those answers.)*

All merchantable timber will be removed except 8 leave trees per acre, both scattered and clumped, will be retained throughout both units. Most understory

shrubs within the proposal area will be disturbed during falling and yarding operations. This understory will regenerate once harvest operations are completed. Streams are protected according to HCP commitments. No harvest operations will occur within these buffers. A few scattered remnant old growth trees have been marked as leave trees.

- 1) *Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See color landscape/WAU and adjacency maps on the DNR website:*

<http://www.dnr.wa.gov/sepa>

(Click on the DNR region under the Topic "Current SEPA Project Actions - Timber Sales.")

Proposal area contains a mix of Douglas-fir, western hemlock, and western red cedar, intermixed with maple and alder.

Unit 1 is adjacent to 3 to 11 year old plantations except the southeast corner where there is second growth timber.

Unit 2 is adjacent to 4 to 24 year old plantations except along the northeast boundary where there is second growth timber.

- 2) *Retention tree plan:*

Units 1 and 2: The leave tree strategy was designed to meet the HCP requirement of 8 leave trees average per acre and maintain a 400 foot minimum spacing. Some leave trees also protected Type 5 streams and potentially unstable slopes. The number of leave trees include 736 leave trees in Unit 1, 608 leave trees in Unit 2. Leave trees are arranged in a combination of clumps and individuals scattered throughout the units.

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

None found onsite or in DNR's database that are threatened or endangered.

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

Replant the harvest units with native conifer species within two years following harvest.

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

None known.

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: hawk, heron, eagle, songbirds, pigeon, other:

mammals: deer, bear, elk, beaver, other: **Cougar, Mountain Beaver**

fish: bass, salmon, trout, herring, shellfish, other:

unique habitats: talus slopes, caves, cliffs, oak woodlands, balds,
mineral springs

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

None.

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

Pacific flyway Other migration route: *Explain if any boxes checked:*

All of western Washington is within the Pacific flyway.

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

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

Species /Habitat: **Riparian & wetland**

Protection Measures: **HCP buffers, see B.3.a.1)b.)**

Species /Habitat: **Upland Strategy**

Protection Measures: **HCP leave trees, see B.4.b.2)**

Species /Habitat: **Balds**

Protection Measures: **Protected within non-tradeable leave tree clumps**

This proposal conforms to 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.

In addition, individual species and tree types known to have high wildlife use have been retained. Trees with unique characteristics such as forked or damaged tops are retained where possible to provide current and future habitat for a variety of wildlife species.

This proposal is located within the Straits Planning Unit, which is in Step 5 of the interim HCP Marbled Murrelet Conservation Strategy. This proposal is not in any released habitat nor in or within 328 feet (100 meters) of reclassified Marbled Murrelet habitat or occupied sites, including delineated by the authors of the Science Team Report. There are no buffers or timing restrictions or other aspects of the procedure applied. This proposal is available for the full range of DNR silvicultural activities permitted under the HCP, PR 14-004-320.

This proposal occurs is not within a Spotted Owl Management Area nor within any Owl Areas and is available for the full range of DNR silvicultural activities permitted under the Habitat Conservation Plan.

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

None.

6. Energy and natural resources

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Does not apply.

- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

Does not apply.

- 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:

Does not apply.

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 health hazard due to operating heavy equipment and the minor spillage of fuel and lubrication oils are always present with this type of operation. The risk of forest fire is always present and will be increased for about two years following harvest due to logging slash.

- 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 fuel will be used on site for operation of logging equipment. In the event of a lubricant spill the Purchaser will contact the Department of Natural Resources and the Department of Ecology. Quick response spill kits are required to be on site in case of smaller spills, as are larger spill kits if hazardous materials are going to be stored on site during operations. No oil or lubricants will be allowed to be disposed of on site.

Herbicides may be used for site-preparation and vegetation management within the new plantation following harvest. Herbicides will be used in accordance with Washington State Forest Practice and Department of Agriculture regulations.

- 4) Describe special emergency services that might be required.

The Department of Natural Resources and fire protection district suppression crews may respond to wildfire in the proposal area. In the event of personal injuries, emergency medical services from Shelton may be required. Hazardous spills may require Department of Ecology and/or county assistance.

- 5) Proposed measures to reduce or control environmental health hazards, if any:

During the closed fire season (April 15-October 15), operators will comply with all state fire laws regarding on-site equipment and industrial fire shut down zones. In addition, operations will be suspended if the onsite relative humidity falls below 30 percent. No oil or lubricants will be disposed of on site.

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 and high level noise created by the use of harvesting equipment within the proposal area. This type of noise has been historically present within this geographical area.

- 3) Proposed measures to reduce or control noise impacts, if any:

None.

8. Land and shoreline use

- a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe. (*Site includes the complete proposal, e.g. rock pits and access roads.*)

Current use includes timber production and forest management. The proposal will not affect current land uses on nearby or adjacent properties.

- 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?

Project site has been used as working forest land; no land conversion will occur.

- 1) Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how:

No.

- c. Describe any structures on the site.

None.

- d. Will any structures be demolished? If so, what?

No.

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

Forest Resource Zone.

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

Timber production.

g. If applicable, what is the current shoreline master program designation of the site?

Does not apply.

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?

Does not apply.

j. Approximately how many people would the completed project displace?

None.

k. Proposed measures to avoid or reduce displacement impacts, if any:

None.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

The use of harvest planning information taken from DNR's GIS system and adherence to the DNR's Policy for Sustainable Forests and HCP will assure that this proposal is compatible with the existing and projected land uses and plans. The DNR's Policy for Sustainable Forests is on file at the South Puget Sound Region office in Enumclaw.

m. Proposed measures to ensure the proposal is compatible with nearby agricultural and forest lands of long-term commercial significance, if any:

Does not apply.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

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

Does not apply.

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, developed recreation site, or a scenic vista?*

No *Yes, viewing location:*

- 2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*

No *Yes, scenic corridor name:*

- 3) *How will this proposal affect any views described in 1) or 2) above?*

Does not apply.

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

None.

11. Light and glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

- c. What existing off-site sources of light or glare may affect your proposal?

None.

- d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

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

Informal recreation opportunities may include hunting, gathering, hiking, and fishing. No designated recreation in the vicinity.

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

Recreational access may be temporarily displaced if roads must be closed to allow for harvest operations.

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

Caution signs will be placed on haul roads.

13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers located on or near the site? If so, specifically describe.

None known or found on site after a field review and review of TRAX database.

- 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.

Reviewed DNR's database, GIS data, and historic maps.

- 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 historic or prehistoric archaeological sites or resources, or human skeletal remains are found within the proposal area during operations they will not be intentionally disturbed or removed from the site and Department of Natural Resources guidelines for inadvertent discovery of cultural resources will be followed.

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.

Highway 101 and State Route 119 as shown on the Driving Map.

- 1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*

No.

- 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?

The nearest known transit stop is approximately 7 miles away in Hoodspport.

- 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. Road maintenance of existing forest roads on DNR managed lands as shown in A.11.c.

- 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*

There are no anticipated impacts to the overall transportation system.

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

It is anticipated there will be 10 to 20 round trips per day while the operation is active. Peak volumes occur during the yarding and loading activities between 4 a.m. and 4 p.m. of the operational period. There will be no associated vehicle trips once the timber harvest is completed, other than passenger vehicle traffic for standard forest management.

- 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:

Active timber sale signs and C.B. channel signs will be placed along the affected roads as needed to alert road users of logging traffic and harvest activities. During brief periods of time roads may be blocked to load/unload trucks as approved.

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.

Accidents would need to use existing emergency services provided by the local communities. Wildfires would need response from the local fire districts and the DNR.

- 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: **None.**

electricity natural gas water refuse service telephone sanitary sewer
 septic system other:

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

Does not apply.

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: Dean Adams

Name of signee: Dean Adams

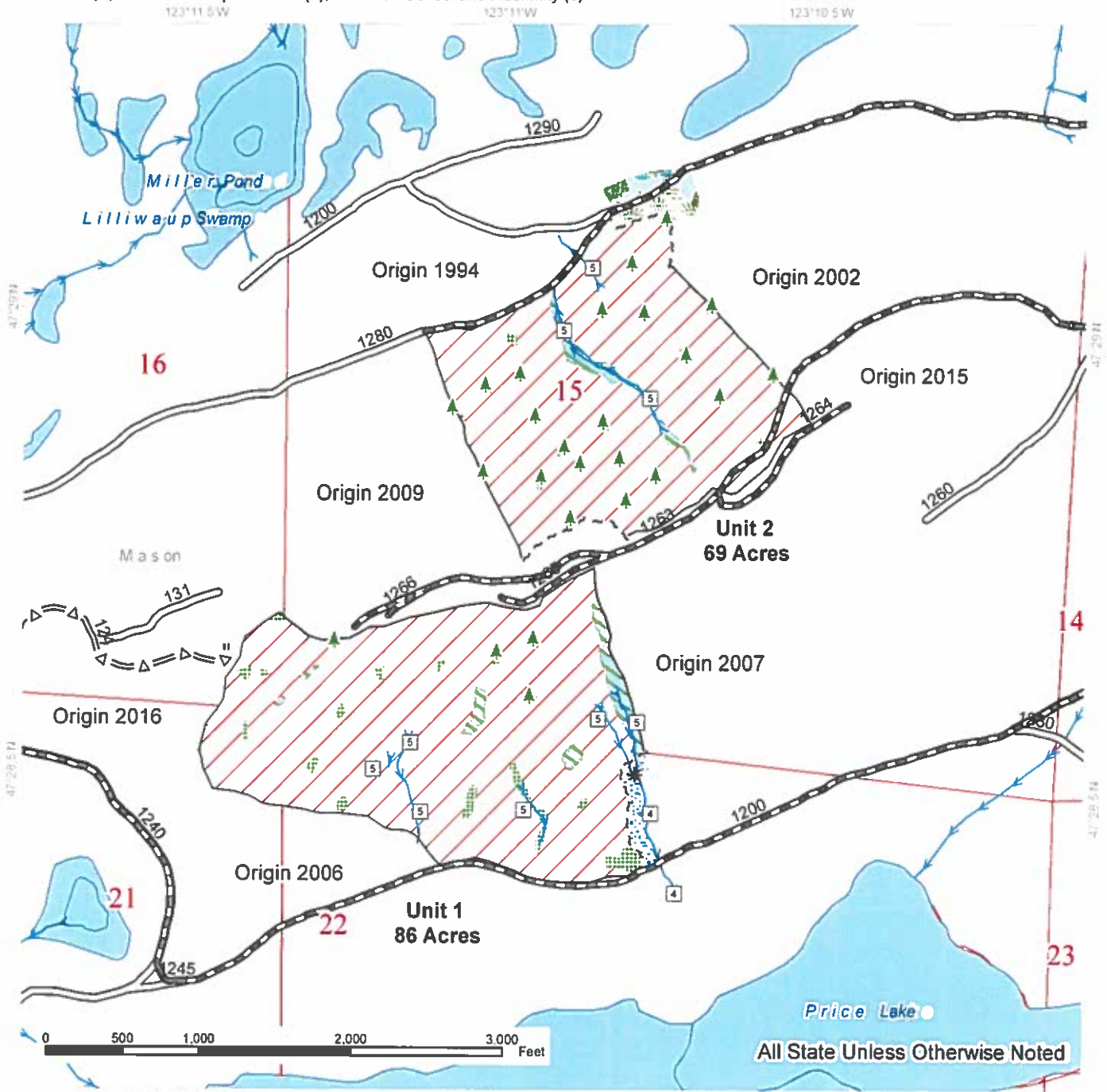
Position and Agency/Organization: State Lands Assistant Region Manager, South Puget Sound Region

Date Submitted: 12/26/18
AEM 12-18-18

TIMBER SALE MAP

SALE NAME: SADDLE MOUNTAIN
AGREEMENT #: 30-096776
TOWNSHIP(S): T23R4W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: South Puget Sound Region
COUNTY(S): Mason
ELEVATION RGE: 720-1840

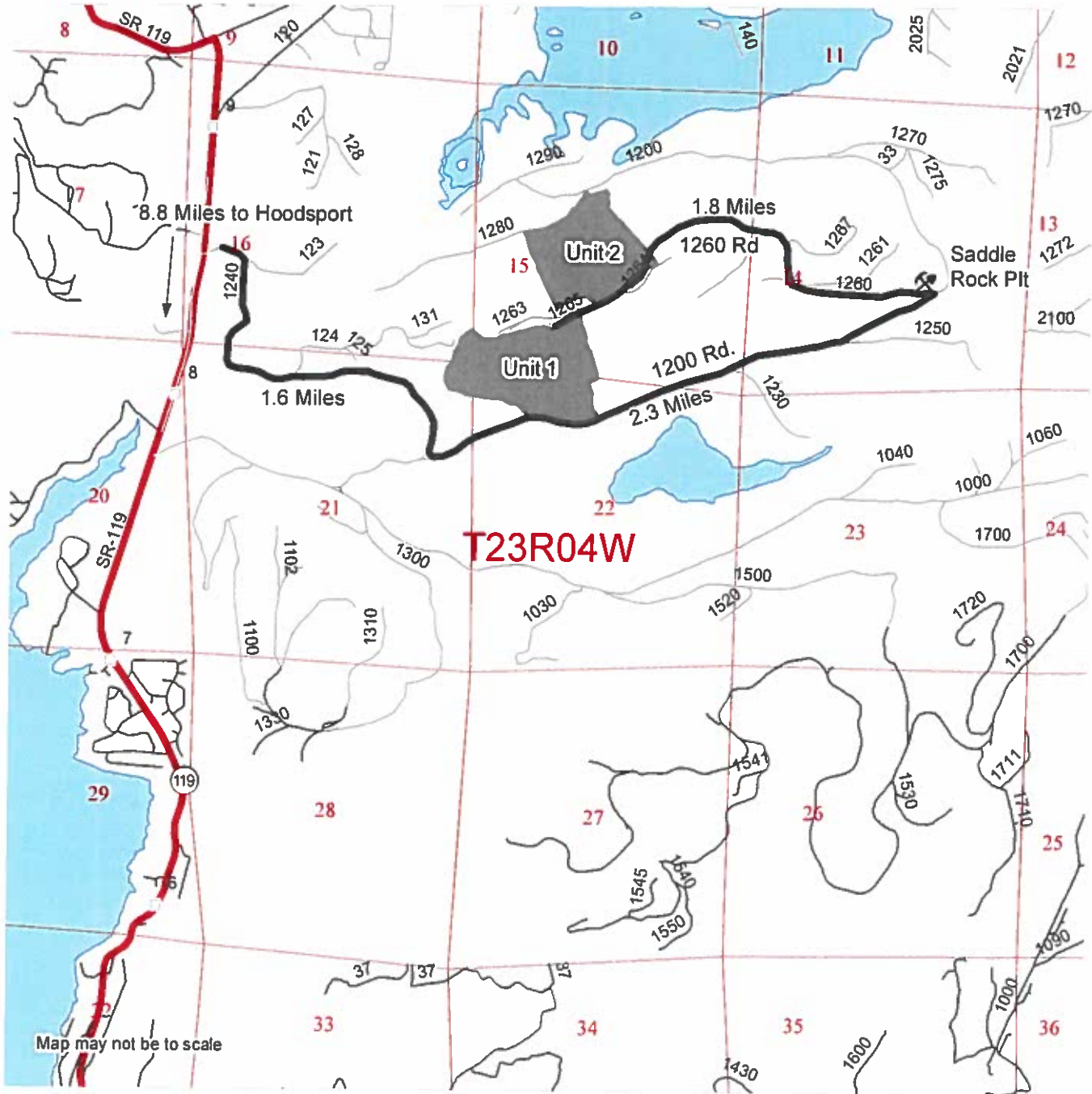


Sale Boundary Tags	Existing Roads	Leave Tree Area <1/4-acre
Timber Type Change	Required Pre-Haul Maintenance	Non-Tradeable Leave Trees
Variable Retention Harvest	Optional Pre-Haul Maintenance	Riparian Mgt Zone
Riparian Mgt Zone	Stream Type 4	Forested Wetland
Forested Wetland	Stream Type 5	Wetland Mgt Zone
Wetland Mgt Zone	Stream Break	Unit 1 and 2 LTA
Streams		

DRIVING MAP

SALE NAME: SADDLE MOUNTAIN
AGREEMENT#: 30-096776
TOWNSHIP(S): T23R4W
TRUST(S): Capitol Grant (7), Common School and Indemnity (3)

REGION: South Puget Sound Region
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ELEVATION RGE: 720-1840



Map may not be to scale

- Timber Sale Unit
- Viewing Route
- Other Road
- Milepost Markers

DRIVING DIRECTIONS:

From Hoodspport: Drive north on SR-119 8.8 miles. Turn east on 123 Rd. and drive 1.6 miles. Turn east on 1200 Rd. And drive 0.5 Miles to Unit 1. Continue on the 1200 Rd. 1.8 miles to the Saddle pit. At the Pit turn west on the 1260 Rd. for 1.8 Miles to Unit 2

