

## *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:* **MADERA SORTS**  
*Agreement #* **30-100353**

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

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

**DNR Northwest Region**  
**919 N. Township Street**  
**Sedro-Woolley, WA 98284**  
**360-856-3500**

**Contact Person: Cory McDonald**  
**Telephone: 360-856-3500**

4. Date checklist prepared: **06/10/2020**

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

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

a. *Auction Date:*  
**12/16/2020**

b. *Planned contract end date (but may be extended):*  
**03/31/2023**

c. *Phasing:*  
**None**

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

*No, go to question 8.*

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

a. *Site Preparation:*

**Harvest units may be treated with herbicides prior to planting. Assessment for treatment will occur after completion of harvest.**

b. *Regeneration Method:*

**Hand plant VRH portions of the proposal with conifer seedlings within the first two years after completion of harvest. Stocking level will meet or exceed Forest Practices standards.**

c. *Vegetation Management:*

**Treatment to be assessed in 3 to 5 years. Competing vegetation may be treated by manual cutting and/or herbicide.**

d. Other:

*Thinning:*

**The need for a pre-commercial thinning will be assessed in 10 to 15 years. A commercial thinning is possible in 25 to 45 years.**

*Roads:*

**The WF-ML, WF-51, and WF-58 roads will be used for future management activities. Road maintenance assessments will be conducted and may include periodic ditch and culvert cleanout, and grading as necessary.**

*Rock Pits:*

**If utilized as a part of this project, the WF-85, WF-58, WF-5802, WF-46, MY-0430, and MY-0419-0104-01 rock pits may be used for future management activities.**

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal. *Note: All documents are available upon request at the DNR Region Office.*

303 (d) – listed water body in WAU:

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan:

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan:

Wildlife report: **Wildlife Review of the Proposed Madera Sorts Timber Sale; 6/19/2020**

Geotechnical report:

Other specialist report(s):

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

Rock pit plan:

Other: **State Soil Survey, 1992; Policy for Sustainable Forests, December 2006; Final Habitat Conservation Plan (HCP) & Environmental Impact Statement, September 1997; Cultural Resource Inadvertent Discovery Guidelines Procedure; Riparian Forest Restoration Strategy, April 2006**

**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 # \_\_\_\_\_

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:*

**This proposal includes the following: (1) a combination Variable Retention Harvest (VRH), Variable Density Thinning (VDT), and right-of-way harvest comprised of approximately 105.8 acres, with an estimated timber harvest volume of approximately 4,053.5 MBF; (2) planned road work, as briefly described in B.11.c, and more fully described in the *Madera Sorts Road Plan*.**

**The sale is bound by a combination of DNR managed land, State Parks land, and private property. The sale area is designed to be harvested using cable and ground-based systems.**

*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:* The information below provides a stand description summary for the units of the proposal.**

- **Approximately 21 to 90-years-old.**
- **Approximately 40 to 180 feet tall.**
- **Basal area ranging from approximately 150 to 250+ square feet per acre.**
- **Stand is comprised primarily of Douglas-fir, western hemlock, and western redcedar.**

***Type of Harvest:***

- **A portion of this sale is a Variable Retention Harvest (VRH), even-aged, with a leave tree retention component.**
- **A portion of this sale is a Variable Density Thinning (VDT) in Nesting Roosting Foraging (NRF) areas. VDT has a residual stand density of approximately 115 to 125 trees per acre.**
- **This proposal is on State managed lands. Harvest removals will occur via ground-based systems and cable systems.**

***Wildlife Objectives:***

- **VRH Harvest: The general wildlife objective is to minimize immediate impact to current wildlife populations while retaining some unique characteristics for future wildlife habitat needs. Leave tree areas and single leave trees were placed to protect relatively unique features such as large down woody debris, riparian and wet areas, multi-cohort segments and large and structurally unique trees.**
- **NRF VDT Harvest: The general wildlife objective is to improve growing conditions within the stand in order to reach a forest structure that meets northern spotted owl habitat conditions faster.**

***Overall Unit Objectives:***

- **Generate revenue for State Trust Beneficiaries.**

- **Protect water quality, maintain site productivity, maintain wildlife habitat.**
- **Forest thinning activities within the “next best” non-habitat NRF management area are meant to improve habitat and growing conditions of the residual stand, expediting a final condition that meets current northern spotted owl habitat standards**
- **This proposal complies with guidelines set forth in the DNR Habitat Conservation Plan, Policy for Sustainable Forests, and Forest Practices Rules and Regulations.**

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		8,436	3.0	
Reconstruction		260		0
Maintenance		62,720	23.9	0
Temporary Construction**		6,937	2.7	0
Abandonment		-	-	0
Bridge Install/Replace	0	N/A		
Stream Culvert Install/Replace (fish)	0			
Stream Culvert Install/Replace (no fish)	8			
Cross-Drain Install/Replace	41*			

\* **Includes 25 cross drains to be permanently installed on new construction.**

\*\***Of the length listed for Construction in the above table, a portion(s) of the length listed may or may not be built as forest road that is constructed and intended for use during the life of an approved forest practices application/notification, then abandoned. A portion of these roads, if built, will be abandoned for trail conversion.**

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:*

**Includes harvest area, road work and rock pits.**

**Township 28 North, Range 9 East, Sections 20, 21, 28, 29, 31, 32**

**Township 27 North, Range 9 East, Sections 2, 3, 10, 11, 12**

b. *Distance and direction from nearest town:* **The proposal area has units approximately 2 miles in a direct line north easterly of the town of Gold Bar, WA and 2-3 miles in a direct line easterly of the town of Gold Bar, WA.**

**By road, one unit is approximately 7 miles northeast of Gold Bar and the remainder of the proposal starts approximately 3 miles east of Gold Bar.**

### 13. *Cumulative Effects*

a. *Briefly describe any known environmental concerns that exist regarding elements of the environment in the associated WAU(s). (See WAC 197-11-444 for what is considered an element of the environment).*

**This proposal may temporarily affect elements of the environment to varying degrees including Geology, Surface water movement/quantity/quality, Soils, Air quality, Noise, Aesthetic, Plants and Animals, and Recreation.**

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's Habitat Conservation Plan (HCP) outlines strategies to protect federally listed threatened and endangered species, and species that are in danger of being listed in the future, as well as uncommon habitat types found on forest lands in western Washington. HCP riparian buffers intended to protect salmon and trout habitat were applied to this proposal, and will be applied to all future sales in the vicinity.**

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

- **Retaining Riparian Management Zones (RMZs) to protect water quality, stream bank integrity, stream temperatures, and provide down woody debris. RMZs will develop older riparian forest characteristics that, in combination with other strategies, will help support older riparian forest dependent wildlife and aquatic species.**
- **Evaluating the proposal for potential slope instability, and excluding areas that exhibited indicators of potentially unstable slopes.**
- **Retaining a minimum of 8 trees per acre clumped and scattered throughout the units. This strategy will provide legacy elements for recruitment for future snags, coarse woody debris, multi-layered stands, and large diameter trees. In combination, the features will provide elements of older forest habitat characteristics within the new stand.**
- **Analyzing, designing, and constructing roads to minimize effects on the environment.**
- **Remote and field reviews were conducted to ensure that all identified potentially unstable slopes that were interpreted as having potential to adversely impact public resources or public safety, were excluded from the harvest areas.**
- **No tail holds will be allowed within and no timber will be yarded across any identified Forest Practice rule-identified landforms.**
- **Cross-drains and ditch-outs will be utilized to minimize the potential for mass wasting and**

slope failures associated with poor drainage by dispersing water onto stable forest floor.

- Skid trails may be water barred post harvesting activities, if necessary to avoid concentrating surface water runoff.

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
UPPER WALLACE RIVER	20,136	5,628	949	803	598
SKYKOMISH RIVER	34,791	3,771	573	614	1,170

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

## B. ENVIRONMENTAL ELEMENTS

### 1. Earth

a. General description of the site (check one):

- Flat,  Rolling,  Hilly,  Steep Slopes,  Mountainous,  Other:

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

WAU: UPPER WALLACE RIVER  
 WAU Acres: 20,136  
 Elevation Range: 150 - 5277 ft.  
 Mean Elevation: 2324 ft.  
 Average Precipitation: 73 in./year  
 Primary Forest Vegetation Zone: Western Hemlock

WAU: SKYKOMISH RIVER  
 WAU Acres: 34,791  
 Elevation Range: 85 - 5959 ft.

<b>Mean Elevation:</b>	1536 ft.
<b>Average Precipitation:</b>	74 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)?

**98%**

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.*

<b>State Soil Survey #</b>	<b>Soil Texture</b>
1956	GRAVELLY LOAM/SILT LOAM
5660	GRAVELLY LOAM/SILT LOAM
8112	GRAVELLY LOAM
8113	GRAVELLY LOAM
7409	GRAVELLY 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.*

**The proposal area was office reviewed by a DNR State Lands Licensed Engineering Geologist. It was field reviewed by a forester and a DNR State Lands Licensed Engineering Geologist on March 24, 2020.**

**Inner gorges and bedrock hollows are located along May Creek near this proposal. These areas have been bound out of the proposal area.**

**The statewide landslide inventory (LSI) screening tool indicates presence of polygons mapped as landslides in the vicinity of the proposal, but not within the**

proposed area. A licensed engineering geologist (Forest Practices Qualified Expert) field reviewed the polygons and categorized them as shallow debris flows and debris slides.

This landslide database is maintained by the Washington Department of Natural Resources, Forest Practices Division. The LSI includes landslides mapped during many different projects including large-scale geologic mapping, watershed analyses, landscape planning, and landslide hazard zonation, in addition to other case studies and mapping efforts. A large majority of landslides identified by these projects are mapped by remote review with minimal field verification. In addition, dormant and ancient deep-seated landslides are mapped in many projects included in the LSI. A large number of the remotely identified landslides and deep-seated features have been mapped with a questionable, probable, or unknown certainty. As a result, the LSI database is meant to be used as a screening tool and field verification is a necessary step in confirming the absence, presence, and extent of mapped features, as well as their actual level of activity/instability.

- 1) *Does the proposal include any management activities proposed on potentially unstable slopes or landforms?*  
 No    Yes, describe the proposed activities:
  
- 2) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*

**Inner gorges and bedrock hollows were excluded from the harvest area.**

**Roads are located on gentle rolling topography as well as steep slopes. Roads utilize existing grades where feasible. Roads and landings are located to minimize ground disturbance resulting from cable harvesting.**

**A combination of cable and ground-based harvesting methods are proposed for this timber sale. Roads were designed to minimize ground-based yarding distance and to access landing locations for areas requiring cable yarding. Ground-based operations are generally restricted to sustained slopes 40% or less. However, self-leveling equipment may be used on sustained slopes 50% or less. Tethered equipment may be utilized on this proposal. Roads located on steeper terrain are located in rocky terrain with no known stability problems.**

- 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:*   **4.3**  
*Approx. acreage new landings:*   **1.4**  
*Fill Source:*   **Native fill or rock.**

**Road construction will utilize standard cut and fill methodology, full bench construction with end haul or side cast to obtain grade and alignment. Native soil and rock will be excavated from the road prism and used for fill in the sub-grade and over cross drains and stream crossings**

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

**Yes. Road construction will expose bare soil. Road plan requirements include the use of grass seed or other revegetation methods to protect exposed soils from erosion.**

- 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):*

**Less than 6% of the site will be covered with permanent new rock covered (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.)*

**All roads will be constructed to meet or exceed Forest Practices standards and the Habitat Conservation Plan guidelines. Appropriate drainage devices including proper culvert size and placement, drain dips, water bars and ditching, will be used as necessary to reduce surface erosion. In areas adjacent to constructed roads where soil disturbances have occurred, straw mulch, grass seed or some other appropriate measure will be used to prevent sediments from being transported. RMZ buffers as described in B.3.a.1.b and B.3.a.1.c. will be retained.**

## 2. Air

- a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

**Minor amounts of engine exhaust from logging and road construction equipment and dust from vehicle traffic on roads will be emitted during proposed activities. If landing debris is burned after harvest is completed, smoke will be generated. There will be no emissions once the proposal is complete.**

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

**None known.**

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

**If landing debris is burned, it will be in accordance with Washington State's Smoke Management Plan. A burn permit will be obtained before burning occurs.**

## 3. Water

- a. Surface Water:

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. (See “WAU Map(s)” and “Timber Harvest Unit Adjacency Map(s)” as referenced on the DNR website: <http://www.dnr.wa.gov/sepa>. Click on the DNR region of this proposal under the Topic “Current SEPA Project Actions - Timber Sales.” Proposal documents also available for review at the DNR Region Office.)

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

a. Downstream water bodies: **Skykomish 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)
May Creek	1	1	200 feet
Skykomish River	1	1	200 feet
Unnamed Stream	3	1	182 feet
Unnamed Stream	4	4	100 feet
Unnamed Stream	5	9	Does not apply.
Unnamed Wetland less than 1 acre in size	Non-forested	1	100 feet
Unnamed Wetland less than 1 acre in size	Forested	3	100 feet

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

**Type 1, 3, and 4 streams and wetlands over 0.25 acres, as listed in B.3.a.1.b. above, are protected with buffers. No wind buffers were applied to any of the buffers based on the low risk that wind throw would occur on this proposal. Low risk was determined by assessing where streams were located on the landscape and comparing the success of stream buffers left with no wind buffers on adjacent sales.**

**Type 5 streams within the sale area have 30-foot equipment limitation zones, except at designated crossings. The crossings will be as close to perpendicular as possible and may require log cribbing, culvert installation, or other approved methods to be in place to protect channels and banks. Timber will be felled and yarded away from all streams when possible.**

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.) (**Note: Timber Sale maps are DRAFT at the point of submission of this SEPA.**)

Description (include culverts):

**Timber will be felled immediately adjacent to RMZs described in the table in B.3.a.1.b. Timber will be felled away from the RMZs where practical in order to avoid damage to trees within the RMZs.**

**Cable yarding will be required to harvest areas of this proposal. In order to achieve adequate deflection, cables may be suspended over one or more typed waters and their associated RMZ. Lead end suspension will be required over any type 5 stream.**

**Type 5 streams within the sale area have 30-foot equipment limitation zones, except at designated crossings. The crossings will be as close to perpendicular as possible and may require log cribbing, culvert installation, or other approved methods to be in place to protect channels and banks.**

**Ditchwater will be diverted through relief culverts or make use of topographic controls prior to stream crossings to keep sediment out of streams. Exposed soils will be revegetated. See Road Plan and Specifications for this proposal (available at the Northwest Region office) for more information.**

**See B.3.a.1.b and B.3.a.1.c for additional RMZ and WMZ protection measures.**

- 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:

**All water flow may be temporarily diverted through bypass culverts or retained behind (or pumped around) coffer dams during culvert installations. Also, typed waters may be temporarily diverted, if culvert replacement is deemed necessary, through the course of operations, on typed water crossing on existing roads.**

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

No             Yes, describe activity and location:

- 6) Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.  
**It is not likely that any waste materials will be discharged into the surface water(s). However, minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the adjacent surface water(s) as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site.**
- 7) *Is there a potential for eroded material to enter surface water as a result of the proposal considering the protection measures incorporated into the proposal's design?*
- No       *Yes, describe:*  
**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)?*
- UPPER WALLACE RIVER = 3.1 (mi./sq. mi.), SKYKOMISH RIVER = 4.0 (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):* **The Skykomish River system is located downstream of the proposal area. It is not likely that the water quality will be affected due to the distance between the proposal area and the Skykomish River.**  
*a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?*

No       *Yes, describe possible impacts:*

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

**As stated in B.3.a.11, this proposal is not expected to cause a damaging increase in peak flows. In order to minimize the risk of road failures during peak flow events, all culverts utilized in new road construction will be sized to withstand a 100-year flood event. Culverts and ditches will be maintained so that they remain functional. Storm patrols will be conducted as necessary on existing and newly constructed roads to identify and address potential erosion problems.**

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:*

**The Skykomish River system is located downstream of the proposal area. It is not likely that the water quality will be affected due to the distance between the proposal area and the Skykomish River.**

*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:* **See surface water, ground water and water runoff section above, Questions B.3.a.1.c, B.3.b.3, B.3.c.2. B.3.c.1.**

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 may enter surface water.**

*Note protection measures, if any:*

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

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

**No 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:
- Ferns: **Sword, Deer, Maiden Hair, Lace, and Licorice.**
- 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.)

**DNR managed lands adjacent to the proposal area consist of timber stands ranging in age from approximately 2 to 100+ years-old with varying levels of structural diversity, species diversity, and timber types. Adjacent non-DNR lands consist of areas with similar timber type.**

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:

**RMZ will be retained as listed in B.3.a.1.b. Exposed soils adjacent to live waters, due to road construction, will be revegetated. See A.7.b for regeneration method.**

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

**No invasive noxious weed or invasive species were found in a database search of DNR's corporate database searched on June 16, 2020. No noxious weeds or invasive species were observed during field work.**

## 5. Animals

- a. List any birds and other animals *or unique habitats* which have been observed on or near the site or are known to be on or near the site. Examples include:

birds:

eagle  hawk  heron  owls  songbirds

other:

mammals:

bear  beaver  coyote  cougar  deer  elk

other:

fish:

bass  herring  salmon  shellfish  trout

other:

*amphibians/reptiles:*

frog  lizard  salamander  snake  turtle

other:

*unique habitats:*

balds  caves  cliffs  mineral springs  oak woodlands  talus slopes

other:

***Note: Balds, cliffs and talus slopes were bound out of the proposal.***

- 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.**

- 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:

**Northern Spotted Owl Nesting, Roosting, Foraging (NRF), Sub-mature Habitat, Next Best Stands and non-habitat**

Protection Measures: **The proposal includes harvest of a stand of NRF non-habitat. The proposal also includes harvest of approximately 10.3 acres of timber within a stand of NRF Next Best. The variable density thinning harvest in the NRF Next Best stand is designed to enhance habitat quality and shorten the trajectory to attain owl habitat. Protection measures for northern spotted owl will follow standards outlined in the Department's Habitat Conservation Plan (HCP) guidelines. The construction of WF-51 and WF-5101 roads through sub-mature habitat was deemed to be less impactful compared to the environmental disturbance associated with vegetation removal, rock blasting, and earthwork for road locations outside sub-mature habitat.**

Species /Habitat: **Stream and wetland riparian habitat**

Protection Measures: **All activities associated with this proposal will meet or exceed Forest Practices standards and the Habitat Conservation Plan. See also B.1.h, B.3.a.1, B.3.a.2, B.3.a.3, B.3.a.4, B.3.a.9, B.3.c, B.3.d and B.4.d.**

- e. List any invasive animal species known to be on or near the site.  
**No invasive animal species area known to be on or near the site.**

## **6. Energy and natural resources**

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.  
**Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.**
- b. Would your project affect the potential use of solar energy by adjacent properties?  
If so, generally describe.  
**No.**
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:  
**None.**

## **7. Environmental health**

- 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.  
**There is minimal anticipated hazard from heavy equipment operations. There is a slight chance of hydraulic or oil spills from equipment operating on the site. There is also a potential fire hazard if operations occur in moderate to severe fire weather conditions. The timber sale contract contains language that addresses hazardous materials spill prevention; hazardous material spill containment, control and cleanup, and hazardous material release reporting. If any toxic or hazardous chemical spill**

**occurs, or if past contamination is discovered, the Department of Ecology will be notified. The contract also contains language for operations during fire season.**

- 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.**

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

b. Noise

- 1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?  
**None.**
- 2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.  
**There will be short term, low level and high level noise created by the use of harvesting equipment and hauling operations within the proposal area. This type of noise has been historically present in this geographical area.**
- 3) Proposed measures to reduce or control noise impacts, if any:  
**None.**

## 8. Land and shoreline use

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

**The site and much of the surrounding area is commercial forest land, with the exception of some of the adjacent Non-DNR land which consists of Wallace Falls State Park and Wild Sky Wilderness Area. Access to the trails closest to the proposal may be temporarily restricted during active harvesting operations to ensure safety of recreationists.**

**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 is used as working forest lands. This proposal will retain the site in working forest lands.**

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

**No.**

- c. Describe any structures on the site.

**None.**

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

**No.**

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

**Industrial Forest – Natural Resource**

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

**Industrial Forest-Natural Resource Lands**

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

**May Creek is a “shoreline of the state” under Washington’s Shoreline Management Act (RCW 90.58).**

**Skykomish River is a “shoreline of statewide significance” under Washington’s Shoreline Management Act.**

**For more information, see [Snohomish County Shoreline Management Program: Shoreline Environment Designations, Policies and Regulations](#) available at:**

- g. Has any part of the site been classified as a critical area by the city or county? If so, specify.  
**No.**
- h. Approximately how many people would reside or work in the completed project?  
**None.**
- i. Approximately how many people would the completed project displace?  
**None.**
- j. Proposed measures to avoid or reduce displacement impacts, if any:  
**Does not apply.**
- k. 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.**
- l. 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:  
**Reiter Foothills Forest Recreation Motorized Trail System and Wallace Falls State Park Recreations Trail System.**

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

**This proposal utilizes a range of methods to address visual impacts to the extent practicable and feasible. In addition to the retention of required buffers on streams and wetlands, trees will also be retained throughout the harvest area as individual and clumped leaf trees. These retained trees will reduce the visual continuity of the harvest area. Topographic features were incorporated in sale layout as a means to limit visibility of some areas of the proposal from a distance.**

**This proposal will also add to the existing matrix of multi-cohort forestland across the landscape. There are many large tracts of State and privately managed forestland which have been actively managed for decades, within the vicinity of this proposal.**

- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**Timber harvesting is a normal occurrence in the vicinity of the proposal and recent timber harvests are visible throughout the area. The majority of this sale is a Variable Retention Harvest where an average of 8 trees per acre will be retained across the proposal area. This sale does not represent a significant departure from usual and common activities.**

## 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?  
**On DNR managed lands there is informal recreation on the WF-ML and MY-04. In Wallace Falls State Park there are designated hiking trails west and south of the proposal area. Additionally, there is a designated backcountry camp site at Wallace Lake north of the proposal area.**

**Informal recreational use throughout the area may include target shooting, hunting, fishing, camping, hiking, mountain biking, and horseback riding.**

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

**Recreational use immediately adjacent to and within the proposal units may be temporarily restricted during active harvest operations for safety concerns. No permanent displacement of existing designated or informal recreational opportunities will occur as a result of this proposal.**

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

**Recreational use of DNR managed lands is governed by RCW [79.10.120](#) Multiple uses compatible with financial obligations of trust management.**

**The adjacent Wallace Falls State Park has a management plan, referred to as the CAMP plan, which was adopted by the Parks and Recreation Commission on 07/18/2019. In that plan the adjacent DNR ownership is discussed, “Reiter Foothills Forest, a DNR managed working forest that includes recreation, is located east, west and south of the park. DNR lands are managed to provide revenue for trust beneficiaries and to provide wildlife habitat. Recreation can occur in these landscapes as a secondary use provided it does not impact the primary objectives required of the trust. Many opportunities exist to provide trail connections and recreation facilities in this landscape along with opportunities to coordinate with DNR to provide a range of user experiences in the area.**

*Much of the DNR managed land surrounding the park will be harvested in coming years.”*

**Logging operations are not permitted on weekends or State recognized holidays, unless authorized in writing by the Contract Administrator. DNR staff conducts monthly focus group meetings with respective user groups updating them on planned activities in the area.**

### **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 known.**

- 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.

**Site number SN00563 was surveyed and evaluated by DNR's State Lands Archaeologist and a Cultural Resource Technician. Additional remnants relating to site SN00623 were also identified and evaluated during the survey work.**

- 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.

**An office review of the proposal site was conducted by a State Lands Cultural Resources Technician on December 2, 2019. Site number SN00563 was identified during the office review and was surveyed and evaluated by DNR's State Lands Archaeologist on April 14, 2020. The site is not eligible for listing on state or national heritage registers. During the field review on April 14, 2020 additional remnants relating to site number SN00623 were identified. Site SN00623 is not eligible for listing on state or national heritage registers, however the site record will be updated to reflect the additional remnants.**

**The Tulalip Tribes, Stillaguamish Tribe of Indians, Snoqualmie Indian Tribe, and Lummi Nation were contacted on June 17, 2020. No response has been received.**

- 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.

**DNR's timber sale contracts contain enforceable measures for protecting any undiscovered historic and cultural resources that might be encountered during operations. If a presently-unknown cultural resource is discovered during project operations, DNR will comply with the March 2010 Cultural Resources Inadvertent Discovery Guidance.**

#### **14. Transportation**

- a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.  
**The site is served by Reiter Road and Kellogg Lake Road. There will be no addition of public roads to access the site, or as a result of this proposal.**
- 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 3 miles away.**
- c. How many additional parking spaces would the completed project or non-project proposal have? How many would the project or proposal eliminate?  
**None.**
- d. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).  
**Yes, see A-11-c.**

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

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

e. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

**No.**

f. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and non-passenger vehicles). What data or transportation models were used to make these estimates?

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

g. Will the proposal interfere with, affect or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

**No.**

h. Proposed measures to reduce or control transportation impacts, if any:

**None.**

## **15. Public services**

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

**No.**

b. Proposed measures to reduce or control direct impacts on public services, if any.

**None.**

## **16. Utilities**

a. Check utilities currently available at the site:

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

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

**None.**

**C. SIGNATURE**

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

Signature: Daniel Hohl

Name of signee Daniel Hohl

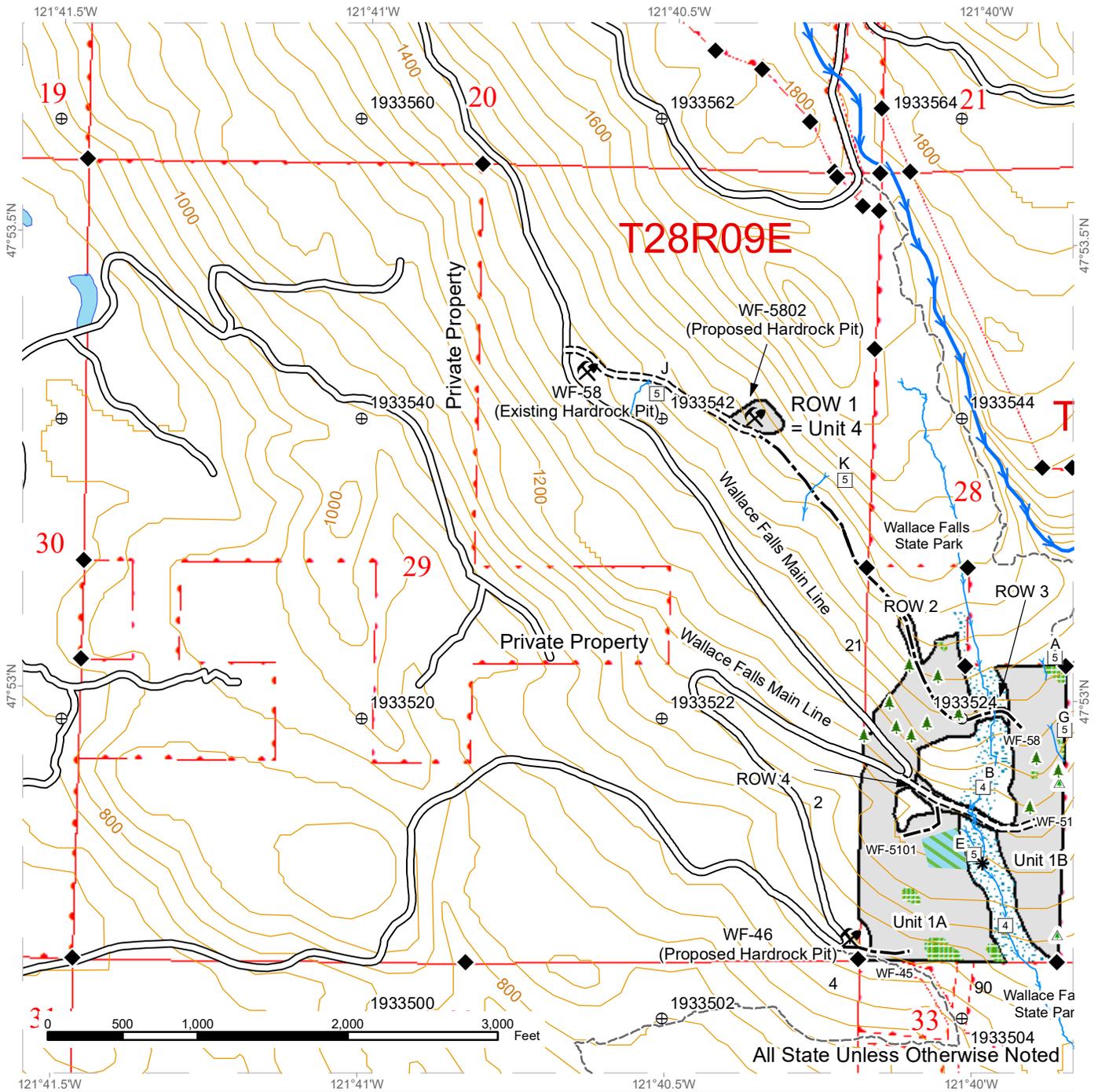
Position and Agency/Organization NRS 2 - Forester WA DNR

Date Submitted: \_\_\_\_\_

# FOREST PRACTICES ACTIVITY MAP

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 APPLICATION #:

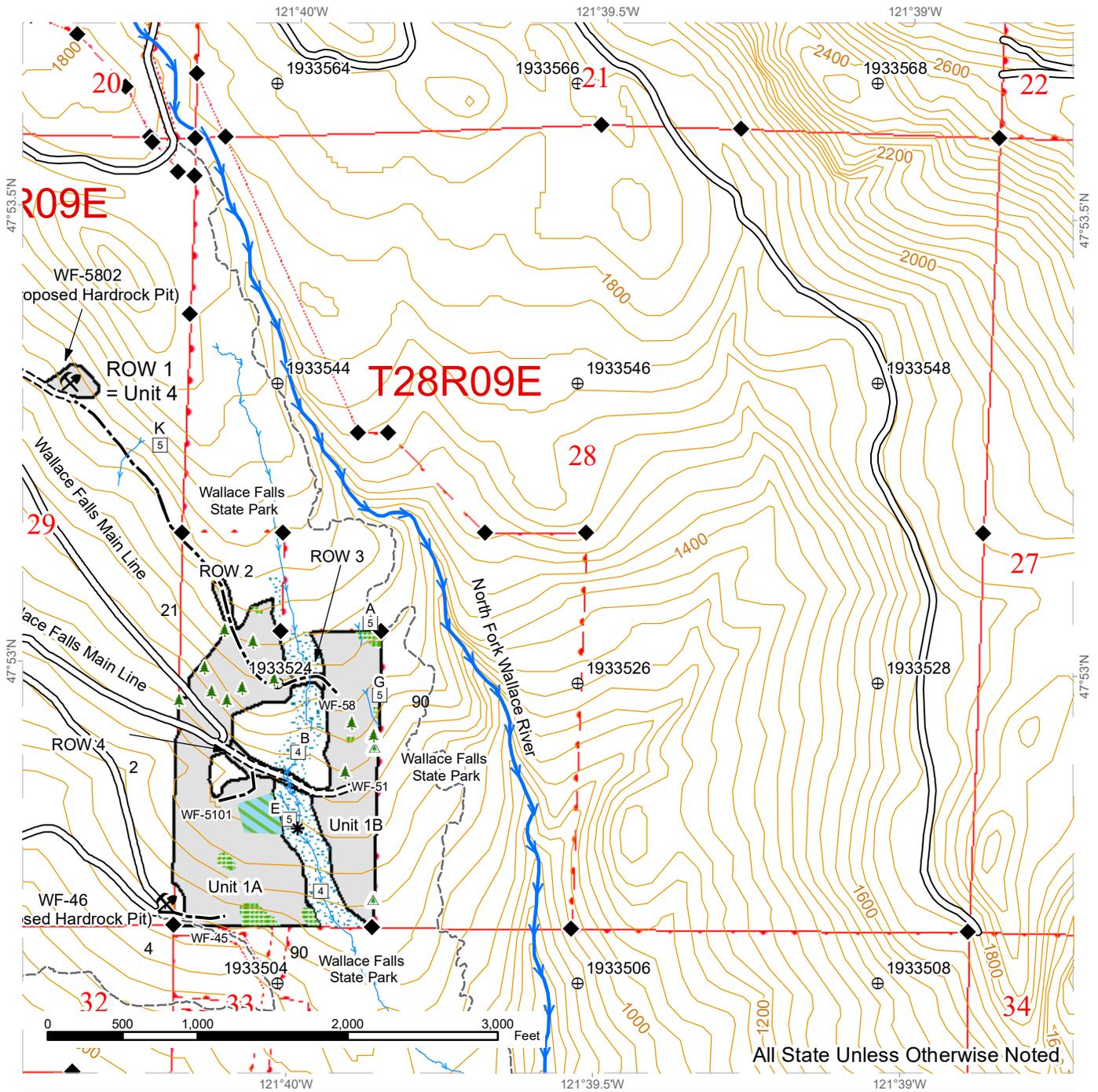
COUNTY(S): Snohomish  
 TOWNSHIP(S): T27R9E, T28R9E



# FOREST PRACTICES ACTIVITY MAP

SALE NAME: MADERA SORTS  
 APPLICATION #:

COUNTY(S): Snohomish  
 TOWNSHIP(S): T27R9E, T28R9E



All State Unless Otherwise Noted

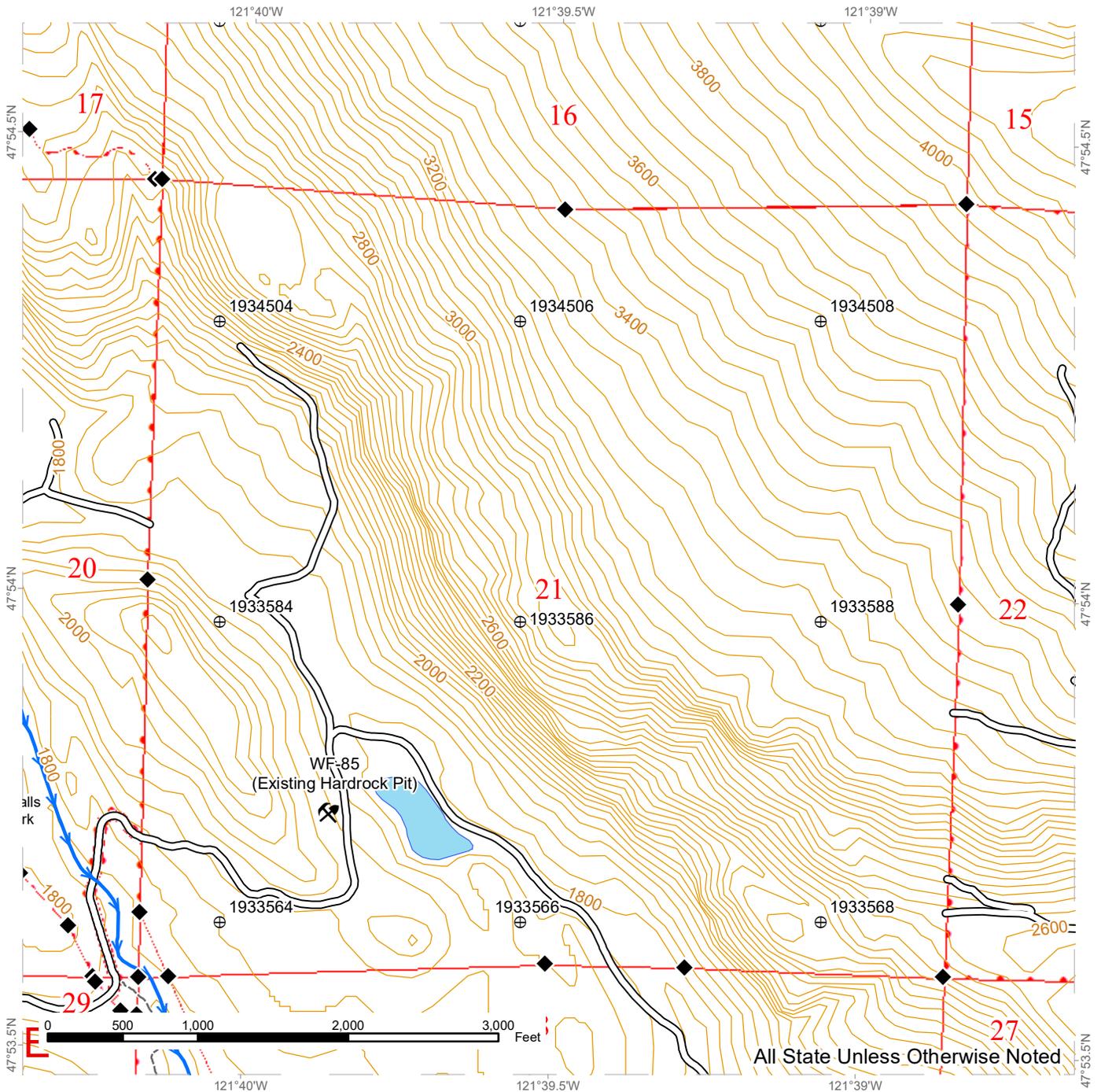
Sale Area	Existing Roads	Survey Monument
Non-tradable Leave Tree Area	Construction	Non-Tradeable Leave Trees
Leave Tree Area	Temporary Road	Rock Pit
Riparian Mgt Zone	Old Grades/Trails	Leave Tree Area <1/4 Acre
	Streams	
	Stream Type	
	Stream Type Break	



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 APPLICATION #:

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All State Unless Otherwise Noted

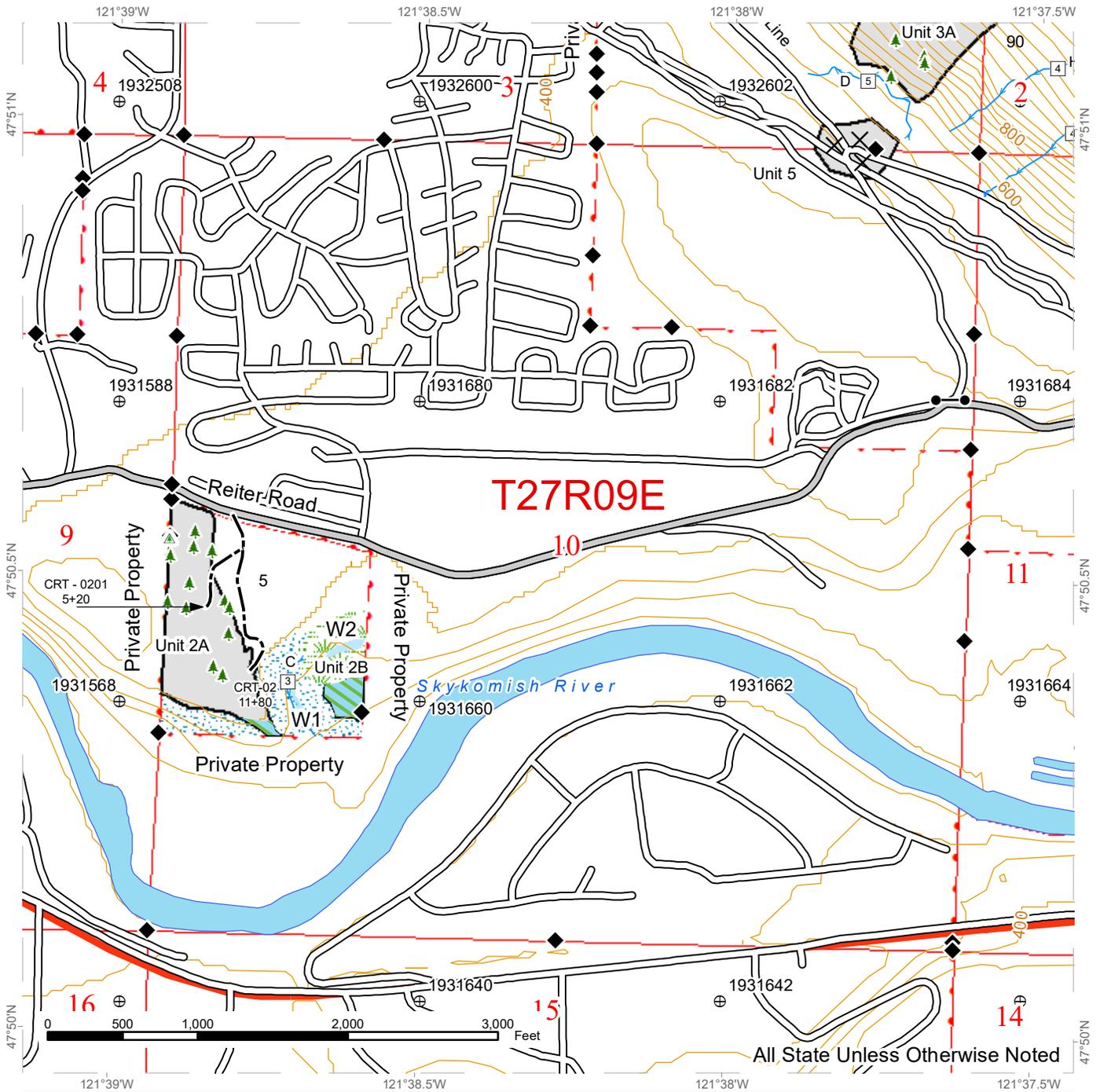
Existing Roads	Survey Monument
Old Grades/Trails	Rock Pit
Stream Type	
Stream Type Break	



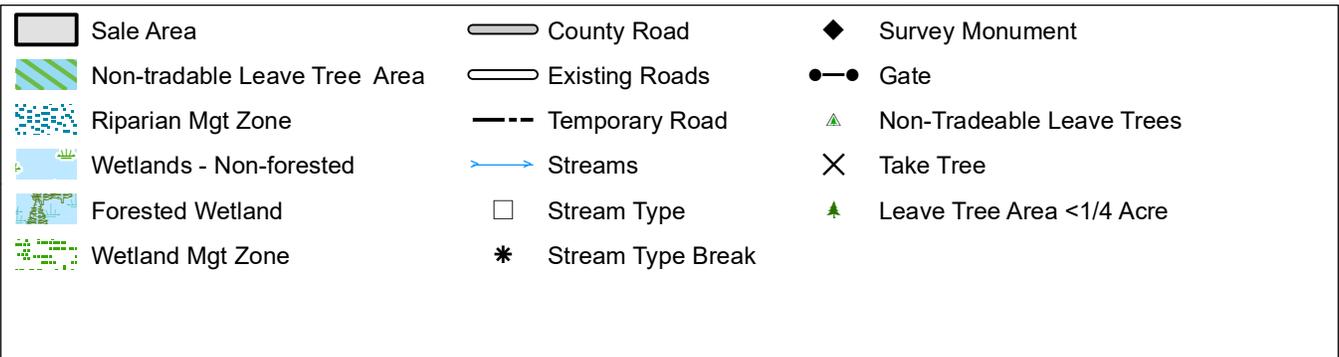
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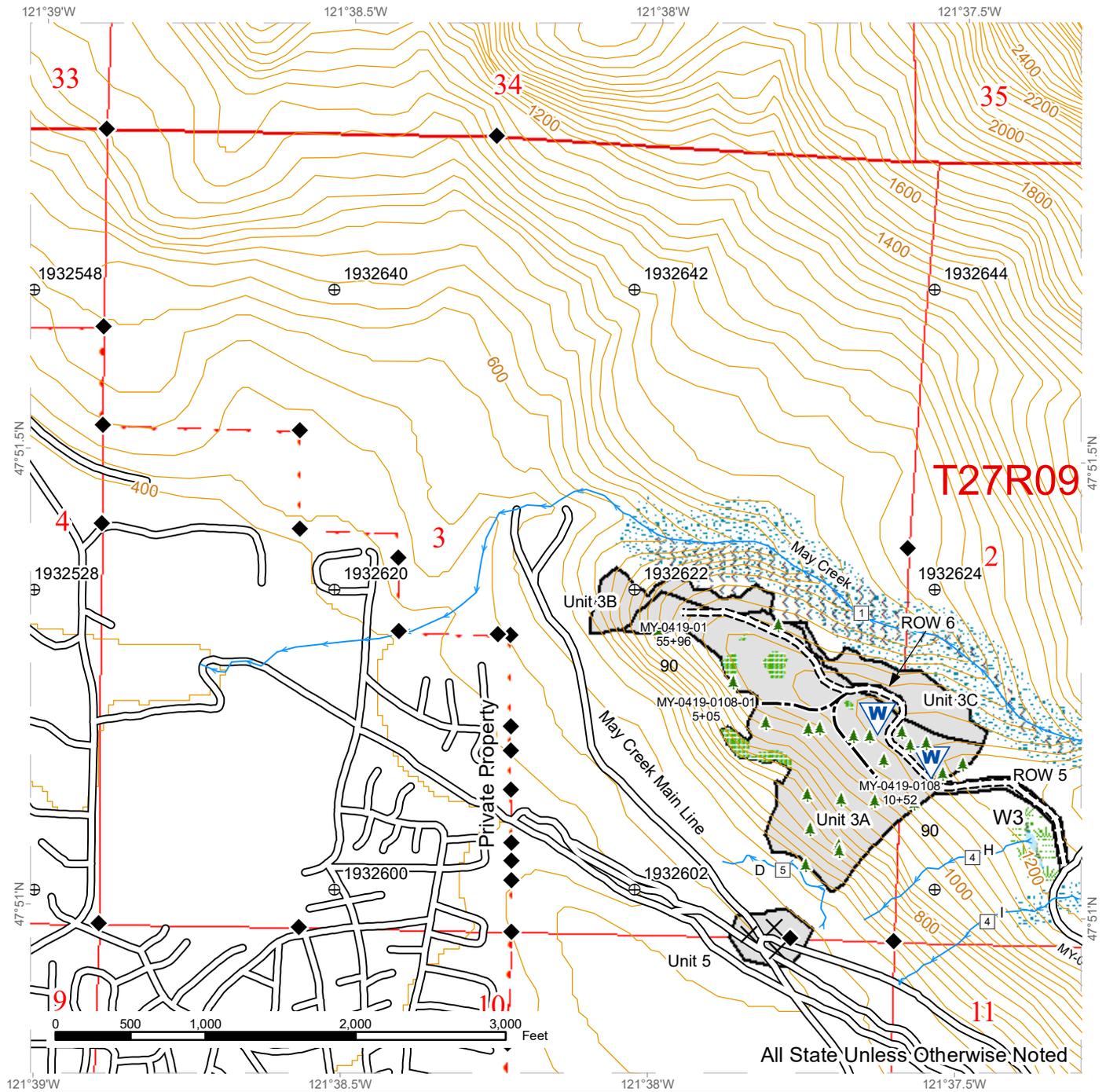
All State Unless Otherwise Noted



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All State Unless Otherwise Noted

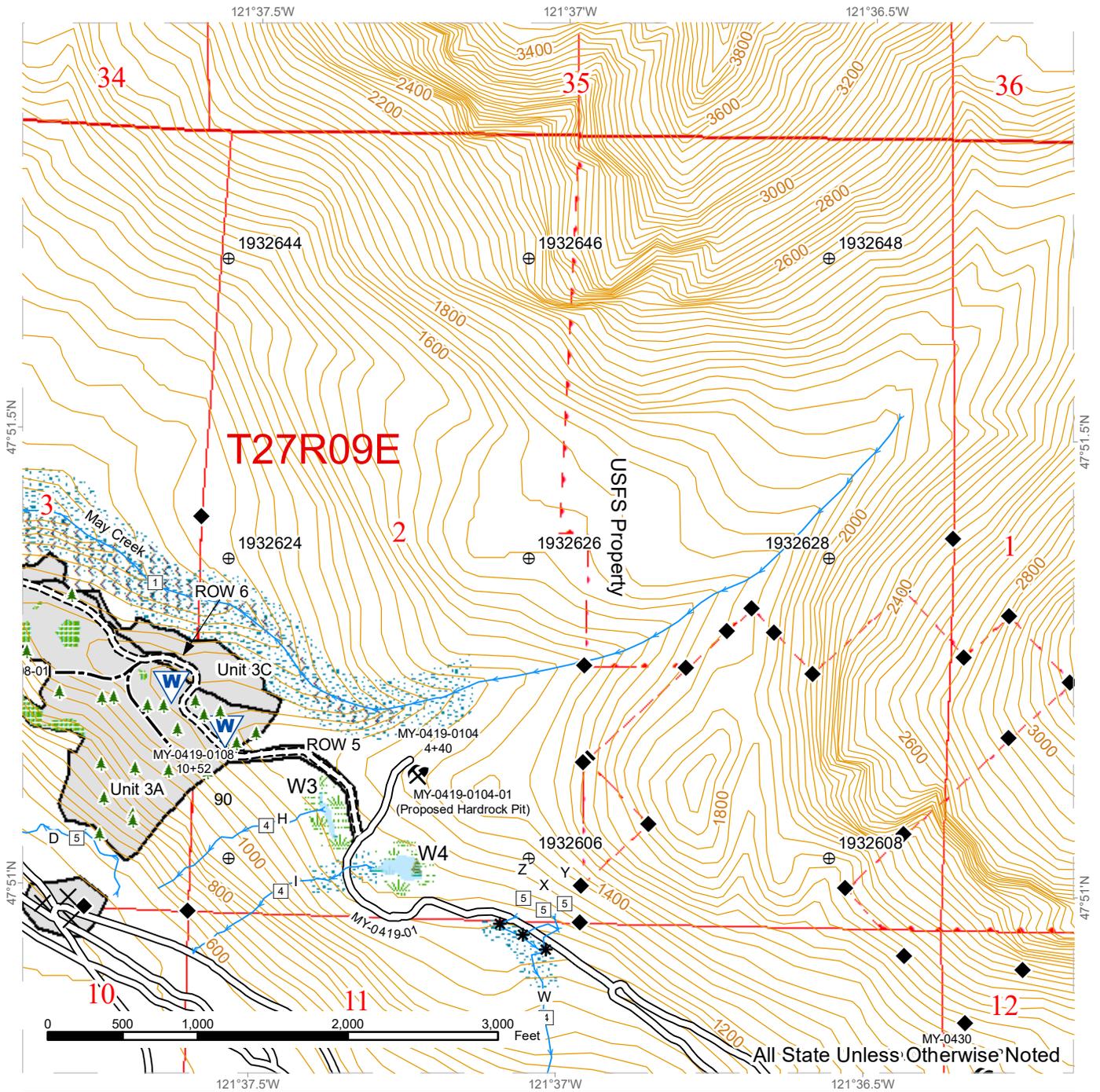
Sale Area	Existing Roads	Survey Monument
Leave Tree Area	Construction	Waste Area
Riparian Mgt Zone	Temporary Road	Take Tree
Forested Wetland	Streams	Leave Tree Area <1/4 Acre
Wetland Mgt Zone	Stream Type	
Equipment Limitation Zone	Stream Type Break	



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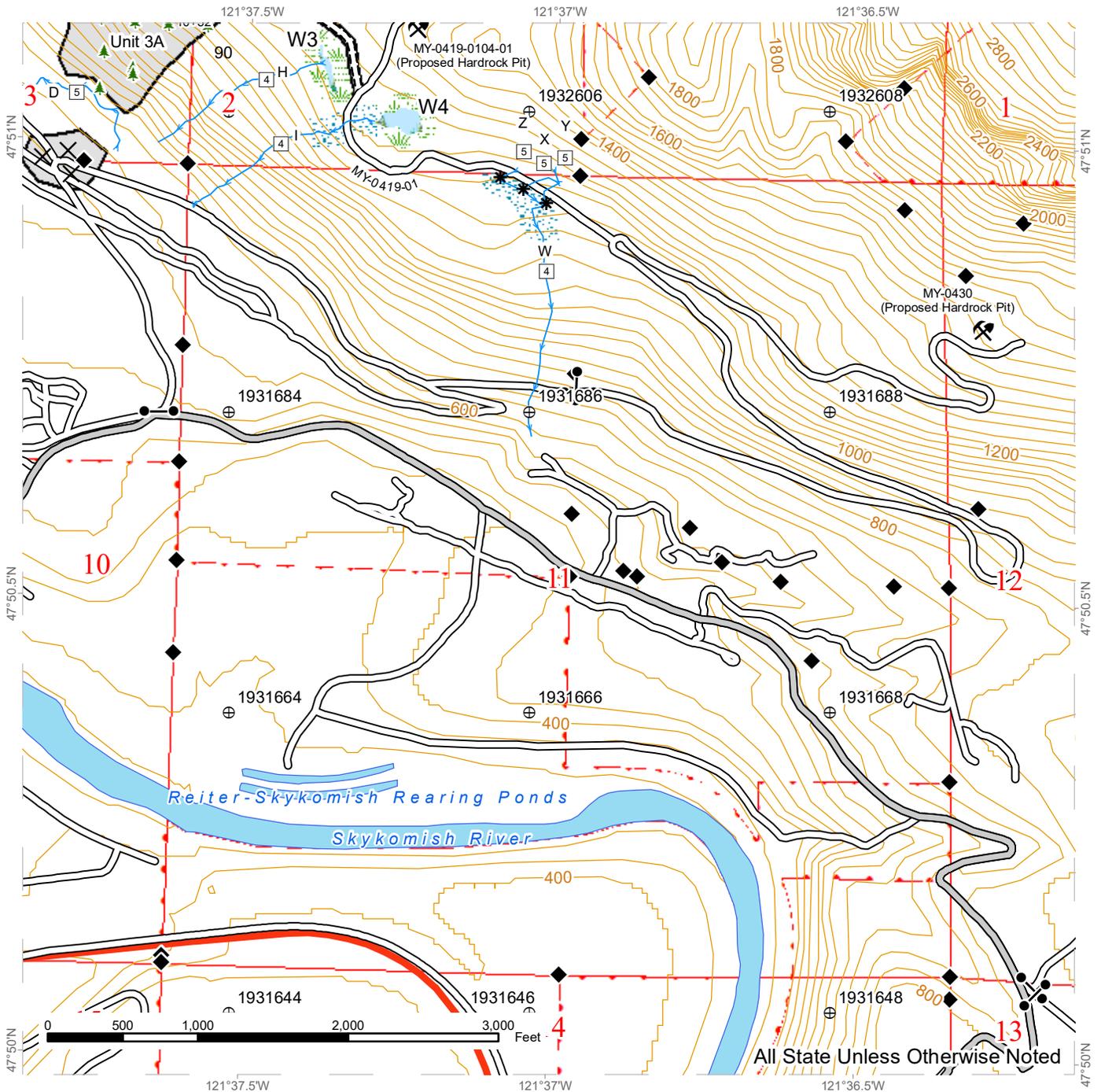
Sale Area	Existing Roads	Survey Monument
Leave Tree Area	Construction	Waste Area
Riparian Mgt Zone	Temporary Road	Rock Pit
Forested Wetland	Streams	Take Tree
Wetland Mgt Zone	Stream Type	Leave Tree Area <1/4 Acre
Equipment Limitation Zone	Stream Type Break	



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 TOWNSHIP(S): T27R9E, T28R9E



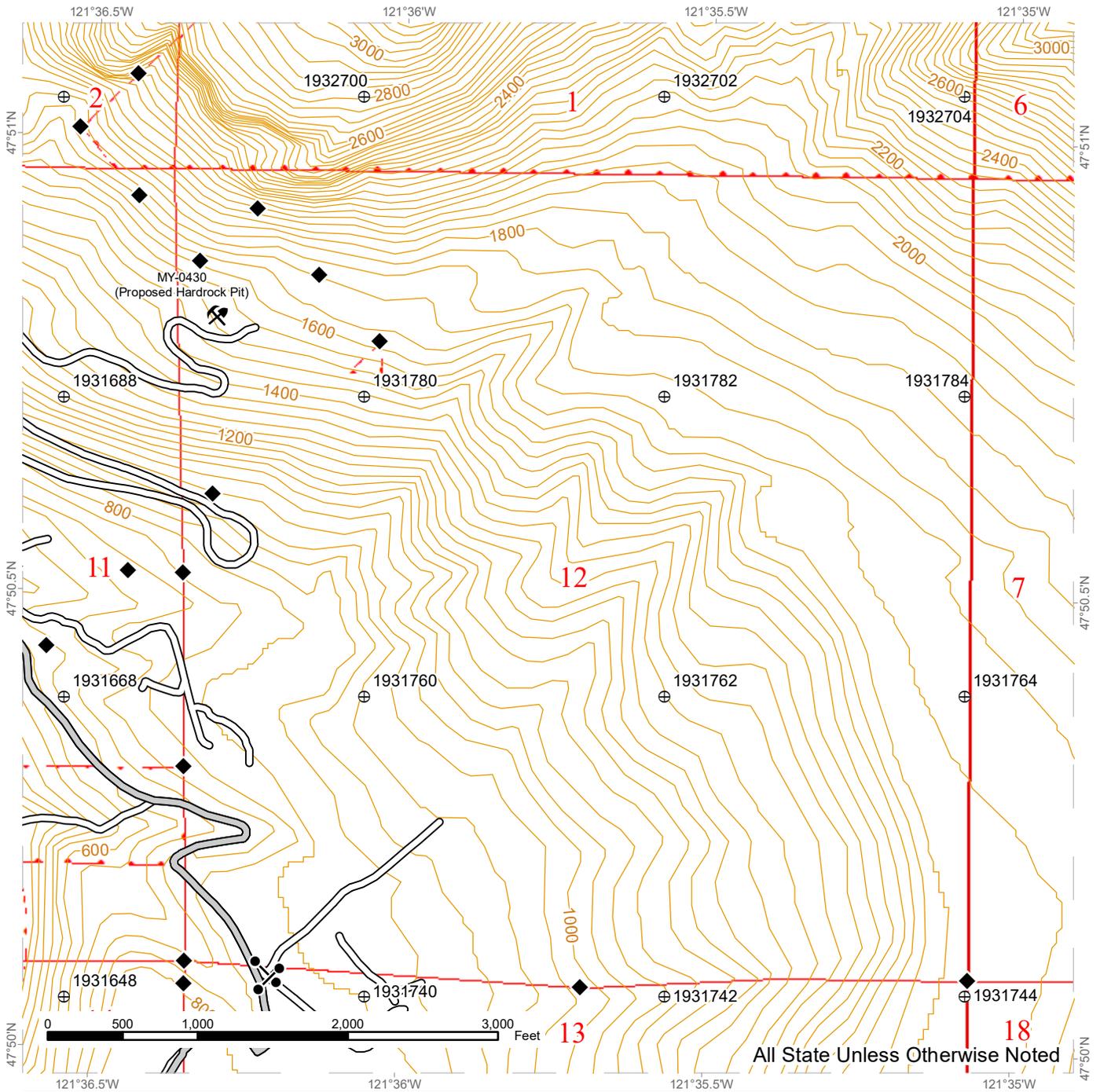
All State Unless Otherwise Noted




# FOREST PRACTICES ACTIVITY MAP

SALE NAME: MADERA SORTS  
 APPLICATION #:

COUNTY(S): Snohomish  
 TOWNSHIP(S): T27R9E, T28R9E



County Road	Survey Monument
Existing Roads	Rock Pit
Stream Type	
Stream Type Break	