

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: **HOMEWARD**
Agreement # **30-101114**

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

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

Mike Potter
Department of Natural Resources
411 Tillicum Lane
Forks, WA 98331
(360) 374- 2800

4. Date checklist prepared: **06/30/2020**

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):
10/15/2021

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:

Assessment will occur after completion of harvest. Site preparation including a ground based application of chemical herbicide, may be used to ensure that planting is successful at acceptable levels to meet or exceed Forest Practice standards.

b. Regeneration Method:

Sale area will be hand planted with native conifer species seedlings following harvest.

c. Vegetation Management:

A continued assessment of units to determine future vegetation management strategy will be required. Treatments will be based on vegetative competition and will ensure a free-to-grow status that complies with Forest Practice standards.

d. Other:

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

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

303 (d) – listed water body in WAU:

temp

sediment

completed TMDL (total maximum daily load)

Landscape plan: **OESF Forest Land Plan (FLP)**

Watershed analysis:

Interdisciplinary team (ID Team) report:

Road design plan: **08/11/2020**

Wildlife report:

Geotechnical report:

Appendix D. slope stability informational form

Other specialist report(s): **WHOGI REPORTS**

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

Rock pit plan: **Mora Pit, Three Rivers Pit, and Loop Pit**

Other: **The following documents are generated from Department GIS databases: Weighted Old Growth Habitat Index (WOGHI) and NSO Best 70 Map.**

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: **County road approach permits**

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 Homeward timber sale is a Variable Retention Harvest (VRH) having a total cruised volume of 4,527 MBF. It encompasses approximately 225 gross acres. Of the 225 gross acres, there are 165 acres of Variable Retention Harvest (VRH), 41 acres of Wetland Management Zones (WMZ)/Riparian Management Zones (RMZ)/Channel Migration Zones (CMZ)/potentially unstable slopes, 10 acres of Leave Tree Areas (LTA), and 9 acres

of existing roads. Approximately 16,925 feet of pre-haul maintenance and 1,870 feet of new construction is proposed to provide access to the sale area. Also, 995 feet of decommissioning will occur after completion of harvest. Rock will be obtained from Mora Pit, Three Rivers Pit, and Loop Pit. This proposal will use ground based harvesting methods and is located in the Dickodochtedar Landscape Planning Unit (LPU).

Unit	Gross Proposal (Acres)	Riparian Management Zones/Channel Migration Zones/Unstable Slope Protection (Acres)	Wetland Management Zones (Acres)	Existing Roads (Acres)	Leave Tree Area (Acres)	Net Harvest (Acres)
1	22	0	0	1	1	20
2	57	0	0	4	4	49
3	36	0	0	2	1	33
4	3	0	0	0	0	3
5	14	0	0	0	0	14
6	5	0	0	0	0	5
7	49	15	6	2	2	24
8	28	15	2	0	1	10
9	3	1	0	0	0	2
10	8	2	0	0	1	5
Totals	225	33	8	9	10	165

Describe the stand of timber pre-harvest (include major timber species and origin date), type of harvest and overall unit objectives.

Pre-harvest Stand Description:

Unit	Origin Date	Major Timber Species	MBF/acre	Slope (%)	Elevation Range (ft)
1	1942, 1947, 1968, 1984, 1986	Western hemlock & Douglas-fir	33.5	0-80*	80-120
2	1986	Western hemlock & Douglas-fir	22.5	0-10	80-120
3	1984	Western hemlock & Douglas-fir	20.8	0-20	80-120
4	1955, 1990	Western hemlock & Douglas-fir	28.6	0-20	80-120
5	1955, 1990	Western hemlock & Douglas-fir	37.7	0-20	80-120
6	1940, 1988	Western hemlock & Douglas-fir	31.3	0-20	80-120
7	1981, 1985	Western hemlock & Douglas-fir	31.8	0-30	80-120
8	1981	Western hemlock & Douglas-fir	30.7	0-50*	80-120
9	1954, 1970	Western hemlock & Douglas-fir	37.3	0-40*	80-120
10	1954, 1966, 1984	Western hemlock & Douglas-fir	38.2	0-80*	80-120

*Steeper slopes are benches and are very short in length

Type of Harvest:

Unit	Harvest Type (VDT/VRH/ etc)	Volume to be Harvested (mbf)	Individual Leave Trees	Clumped Leave Trees	Total Leave Trees
1	VRH	671	47	113	160
2	VRH	1,104	5	395	400
3	VRH	687	40	224	264
4	VRH	86	24	0	24
5	VRH	513	79	25	104
6	VRH	157	13	27	40
7	VRH	750	7	193	200
8	VRH	294	8	88	96
9	VRH	75	5	11	16
10	VRH	191	2	50	52

Overall Unit Objectives:

The overall objectives for this sale includes the production of saw logs and pulp material for trusts while expediting the development of a more diverse multi-storied canopy layer in the future stand. This will be accomplished through the retention of wildlife trees, legacy trees, and wetland management zones (WMZ)/riparian management zones (RMZ). Approximately 51 (23%) acres have been set aside for WMZs/RMZs and LTAs. In addition, these stands will be managed to protect site productivity and maintain the integrity and water quality of adjacent streams.

Ecological- The VRH will promote diverse forest structure across the landscape while preserving ecological integrity and function.

Economic- Generate revenue for Capitol Grant (07) Trust and State Forest Transfer (01) Trust.

Statute- Comply with the Habitat Conservation Plan, OESF Forest Land Plan, Forest Practice rules, and implement the Policy for Sustainable Forests.

Social- Accommodate dispersed informal recreational activities on DNR managed lands.

Specific objectives are to provide riparian protection, protection of unstable slopes, protection of soils and habitat conservation for threatened and endangered species. Riparian protection measures were designed for all waters in and adjacent to this proposal in accordance with DNR’s OESF Riparian strategy.

b. 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		1,870	0.5	-
Reconstruction		-		-
Maintenance		16,925		-
Decommissioning		995	1	-
Bridge Install/Replace	0			-
Stream Culvert Install/Replace (fish)	0			-
Stream Culvert Install/Replace (no fish)	1			
Cross-Drain Install/Replace	9			

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:*

T28N R14W S21
T28N R14W S16
T28N R14W S17
T28N R14W S18
T28N R14W S19
T28N R15W S01
T29N R14W S31
T28N R15W S23 (Mora Pit)
T28N R15W S24 (Mora Pit)
T28N R14W S21 (Three Rivers Pit)
T29N R13W S03 (Loop Pit)

b. *Distance and direction from nearest town:*

The Homeward timber sale is located approximately 10 miles west of Forks, WA.

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 is located within the Lower Dickey, Quillayute River, and Sol Duc Lowlands WAU’s. Ownership across the WAU’s includes large industrial forests, private land owners and Department of Natural Resources managed forests. Forested stands within these WAU’s appear to be primarily second and third growth stands with some old growth stands. The number of forest practice activities shown on the WAU maps, along with observations within the WAU’s indicate that the WAU’s are intensively managed for timber production.

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.*

This proposal and all future management activities on DNR lands will be conducted in accordance with the DNR’s Habitat Conservation Plan (HCP, 1997), the Policy for Sustainable Forests (2006), the OESF Forest Land Plan and Forest Practice Rules. The HCP is an agreement with the federal government that requires the DNR to manage the landscapes with the intent to preserve and enhance habitat. In accordance with its terms, the following applicable strategies are found to provide a conservation benefit for multiple species:

- **Deferring harvest from unstable slopes with a medium or high risk of failure**
- **Retaining Riparian Management Zones (RMZ’s) on typed waters. This includes a variable width interior core buffer on type 2, 3, and unstable type 5 streams. Equipment limitation zones are required on all streams**

- Retaining Wetland Management Zones (WMZ's) on identified wetlands. This includes a variable width interior core buffer based on site index.
- Retaining a minimum of 8 leave trees per acre dispersed and clumped throughout VRH units
- Designing, constructing, and maintaining a road system to minimize potential adverse effects on the environment
- Implementing procedures pertaining to threatened and endangered species

In concert, the HCP strategies for Northern Spotted Owl, Marbled Murrelet, and riparian conservation will contribute to the retention and development of older forests, while the leave tree procedure will enhance the structural diversity of forests across the landscape. In addition, road construction and maintenance standards will improve the quality of the existing road network and reduce impacts on the environment.

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

All mitigation measures are clearly outlined in the HCP. No additional mitigation measures have been developed for this proposal.

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?

It is not likely potential impacts from this proposal will contribute to the environmental concerns listed in question A-13-a. DNR's HCP, the Policy for Sustainable Forests, and the Forest Practice rules substantially helps the Department to mitigate for cumulative effects related to management activities. These strategies have been incorporated in this proposal.

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
QUILLAYUTE RIVER	27568	7386	707	79	546
LOWER DICKEY	58688	7732	596	83	1403
SOL DUC LOWLANDS	22229	4588	246	129	706

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:	QUILLAYUTE RIVER
WAU Acres:	27568
Elevation Range:	0 - 985 ft.
Mean Elevation:	240 ft.
Average Precipitation:	89 in./year
Primary Forest Vegetation Zone:	Sitka Spruce

WAU:	LOWER DICKEY
WAU Acres:	58688
Elevation Range:	0 - 931 ft.
Mean Elevation:	109 ft.
Average Precipitation:	76 in./year
Primary Forest Vegetation Zone:	Sitka Spruce

WAU:	SOL DUC LOWLANDS
WAU Acres:	22229
Elevation Range:	27 - 1850 ft.
Mean Elevation:	443 ft.
Average Precipitation:	105 in./year
Primary Forest Vegetation Zone:	Sitka Spruce

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)?

80% for very short distances on benches

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

Note: The following table is created from state soil survey data. It is an overview of general soils information for the soils found in the sale area. The actual soil conditions in the sale

area may vary considerably based on land-form shapes, presence of erosive situations, and other factors.

State Soil Survey #	Soil Texture
7435	V.GRAVELLY SANDY LOAM
3970	V.GRAVELLY LOAM
6400	SILT LOAM
3977	SILT LOAM/V.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.

This proposal is largely flat and is immediately adjacent to stream channels with actively slumping banks evidenced by over steepened slopes and exposed bare soil.

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.

Stream channels with actively slumping banks evidenced by over steepened slopes and exposed bare soil were identified by trained foresters and bound out of the sale 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: <1

Approx. acreage new landings: <1

Fill Source: Designated rock sources

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

Yes. Some erosion could occur as a result of building new roads, installing culverts, and hauling timber.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*

Less than 1% of the site will remain as gravel roads.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:
(Include protection measures for minimizing compaction or rutting.)
Harvesting and road construction will be restricted during periods of heavy rainfall when rutting and surface erosion may occur. Roads will be constructed with properly located ditches, ditch-outs, and cross-drains to divert water onto stable forest floors and/or into stable natural drainages. Best management practices will be utilized as necessary in proximity to live waters. Ground based operations will be suspended during periods of wet weather or wet soil conditions when rutting of skid or shovel roads begins.

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: Unnamed streams, Coal Creek, Dickey River, Sol Duc River, Bogachiel River, Quillayute River, and Pacific Ocean

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)
Wetland	Non-Forested	1	Non-forested wetlands over 5 acres full SI buffer of 160'
Wetland	Forested	2	Forested wetlands under 5 ac. protected with 2/3 SI buffers of 106'
Stream	2	2	150-350' buffer
Stream	3	3	Variable width interior core buffer of 100'-115'
Stream	5	8	Variable width interior core buffer around unstable slopes of 5-30' and a 30' equipment limitation zone

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

In accordance with the Habitat Conservation Plan, on typed waters, all floodplains and unstable slopes are protected with variable width interior core buffers based on site specific conditions. Type 2 waters have been protected with 150' no harvest riparian buffers. A Channel Migration Zone was present on a Type 2 water and the riparian buffer was applied to the outer edge of the CMZ for a total RMZ width of 150' – 350'. The Type 3 streams have a 100-115' buffers. All floodplains and unstable slopes have been excluded from harvest. Unstable Type 5 streams are protected with interior core buffers (5'-30'). All typed waters have a 30' equipment limitation zone.

One non-forested wetland and 2 forested wetlands are located around this proposal. Two of these wetlands are under 5 acres in size and were protected with 2/3 100 year site index buffer of 106'. One greater than 5 acre wetland was protected with a full 100 year site index buffer of 160'. No harvest will occur in non-forested/forested wetlands or associated WMZ's.

Wind-throw probability modeling and field assessments were done on the sale area and determined low risk of severe endemic wind-throw for the interior core buffers, so no external wind buffers were applied.

The work detailed in the road plan has been designed to improve surfacing on the haul roads, and provide for better drainage by installing additional, and replacing inadequate culverts that will divert storm water onto stable forest floor. These actions will minimize the potential for delivery of sediment to streams.

2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No

Yes (See RMZ/WMZ table above and timber sale maps which are available on the DNR website: <http://www.dnr.wa.gov/sepa>. Timber sale maps are also available at the DNR region office.)

Description (include culverts):

Timber felling, bucking, yarding, bridge construction and road maintenance and construction will occur within 200 feet of all the described waters above. All activities will be done in accordance with the DNR's HCP and Forest Practice rules. Timber harvest will occur within 200 feet of typed waters, but no closer than described above in questions B.3.a.1.b and B.3.b. Culvert work listed in A.11.b will occur within 200 feet of the described waters above.

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

Indicate the source of fill material.

None.

- 4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known. (*Include diversions for fish-passage culvert installation.*)

No Yes, description:

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

No Yes, describe activity and location:

- 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)?*

QUILLAYUTE RIVER = 4.0 (mi./sq. mi.), LOWER DICKEY = 1.9 (mi./sq. mi.), SOL DUC LOWLANDS = 4.9 (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:

Yes, areas show evidence of changes to stream channels. Some drainages show evidence of debris torrent events which have increased the dimensions of affected drainage channels and decreased the overall amount of large woody debris in the streams. These events may be attributed to past road construction techniques, inherently unstable slopes, soil composition or significant amounts of precipitation in short time periods.

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

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

No Yes, describe the water resource(s):

a. Is it likely a water resource or an area of slope instability listed in B-3-12 (above) will be affected by changes in amounts, quality or movements of surface water as a result of this proposal?

No Yes, describe possible impacts:

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

Restricting timber harvest and road maintenance activities during peak rain events will allow for increased resource protection. Road development and maintenance standards will minimize impacts by using cross-drains and ditch-outs to release ditch

water onto stable forest floors where flow energy can dissipate prior to reach stream channels. Maintaining RMZ's on streams will aid bank stability, hydrologic functions, and provide recruitment of LWD. See B.1.d.2, B.1.h, and B.3.a.1 for additional details on protections measures within this proposal.

b. Ground Water:

- 1) Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No water will be withdrawn or discharged.

- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

Minor amounts of oil, fuel, and other lubricants may inadvertently be discharged to the ground as a result of heavy equipment use or mechanical failure. No lubricants will be disposed of on-site. All spills are required to be contained and cleaned-up. This proposal is expected to have no impact on ground water.

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

No Yes, describe:

a. Is it likely a water resource or an area of slope instability listed in B-3-b-3 (above) could be affected by changes in amounts, timing, or movements of groundwater as a result this proposal?

No Yes, describe possible impacts:

Note protection measures, if any:

c. Water runoff (including stormwater):

- 1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Water runoff, including storm water, from road surfaces will be collected by roadside ditches and diverted onto the forest floor via ditch-outs and cross drain culverts.

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

No Yes, describe:

Waste materials, such as sediment or slash, may enter surface water.

Note protection measures, if any:

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

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).*

Approximately 4,527 MBF of 30-80 year old timber will be harvested with this proposal. Units 1 and 9 had moderate WHOGI points within the units. The Regions WHOGI specialist assessed both units and found neither met the criteria for an old growth stand.

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

Unit 1 is bordered to the south by 1 year old private timber, to the west by 36-78 year old DNR timber, to the north by 36 year old DNR timber, and to the east by 34-73 year old DNR timber.

Unit 2 is bordered by 34 year old DNR timber on all sides.

Unit 3 is bordered to the north by 36 year old DNR timber and private reprod, to the west by 36 year old DNR timber, and to the east and south by 20-118 year old timber.

Unit 4 is bordered to the east by 30 year old DNR timber and by 65 year old DNR timber on the other sides.

Unit 5 is bordered to the east by 30 year old DNR timber, to the north by 65 year old DNR timber, and to the west and south by 22-30 year old DNR timber.

Unit 6 is bordered to the west by private timber and by 32 year old DNR timber on the other sides.

Unit 7 is bordered to the north by 35 year old DNR timber and by 39 year old DNR timber on the other sides.

Unit 8 is bordered by 39 year old DNR timber on all sides.

Unit 9 is bordered to the south by 66 year old DNR timber and 10 year old DNR timber on all other sides.

Unit 10 is bordered to the north by 66 year old DNR timber, to the east by private timber, to the west by 36 year old DNR timber, and to the south by 20 year old DNR timber.

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

TSU Number	Common Name	Federal Listing Status	State Listing Status
HOMEWARD U4	great polemonium	None	Threatened
HOMEWARD U3	great polemonium	None	Threatened
HOMEWARD U5	great polemonium	None	Threatened

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

Retaining existing stands within bounded out areas throughout the proposal, leave tree areas within harvest units, and replanting with native conifer species in the VRH units following harvest. Other native conifer and deciduous species may regenerate naturally onsite.

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

Himalayan Blackberry, Scotch Broom

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:

Eagles were observed in flight, no nests are known within 660' of the sale area

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

TSU Number	Common Name	Federal Listing Status	State Listing Status
HOMEWARD U9	Fisher	Candidate	Endangered
HOMEWARD U7	Northern Spotted Owl	Threatened	Endangered
HOMEWARD U5	Marbled murrelet	Threatened	Endangered
HOMEWARD U1	Marbled murrelet	Threatened	Endangered
HOMEWARD U2	Marbled murrelet	Threatened	Endangered

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

Pacific flyway Other migration route:

Explain:

This site is part of the Pacific flyway but is not used extensively for resting or feeding by waterfowl.

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

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

Species/Habitat: Spotted Owl – The DNR mitigates for the potential of significant adverse environmental impacts to northern spotted owls in the OESF by implementing the HCP strategy. This strategy established threshold percentages for spotted owl habitat on DNR-managed lands for Landscape Planning Units (LPU). Each LPU is managed to achieve and maintain at least 20% Old Forest Habitat and at least 40% of Old and Young Forest (or Structural) Habitat types taken together according to a schedule of habitat enhancement and harvest activities developed within the Forest Land Plan (FLP). Currently 20.5% of the Dickodochtedar LPU is habitat. All units within the proposal are considered non-habitat in accordance to the OESF NSO Habitat Model.

Species/Habitat: Marbled Murrelet- The proposal does not occur within a marbled murrelet special habitat area, occupied site or buffer, and does not contain murrelet habitat (P-stage) that has been designated for metering. Previously modeled long term forest cover (LTFC) is being updated as a result of layout fieldwork.

Species /Habitat: Riparian– Interior core buffers have been applied to all Type 2, 3, and unstable 5 waters and wetlands as well as equipment limitation zones on all typed waters, as described in B.3.a.1)b). Buffers are designed to protect the unstable portions of the stream banks, protect waters from siltation, and decrease water temperatures by providing shade and cover. Buffers also allow the natural occurrence of woody debris that provides pools and eddies for fish habitat along stream banks. Furthermore, these buffers will develop old-forest characteristics that, in combination with the owl and murrelet strategies, will help support old-forest dependent wildlife.

Species /Habitat: Upland – Harvest will not occur in areas with moderate or high risk of slope failure or delivery to a public resource. Wind-firm, dominant, and structurally unique trees were targeted for retention. A minimum of eight trees per acre were retained individually and in clumps to provide habitat structures for wildlife species within VRH

units. Timber removal will temporarily create open environments that provide valuable foraging and potential habitat for a variety of wildlife species associated with early-stage forest environments.

- 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.
Petroleum fuel (diesel or gasoline) will be used for heavy equipment during active road building, timber harvest operations, and for transportation. No energy sources will be needed following project completion.
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.
No.
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:
None.

7. Environmental health

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste that could occur as a result of this proposal? If so, describe.
- 1) Describe any known or possible contamination at the site from present or past uses.
None known.
 - 2) Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.
None known.
 - 3) Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.
Petroleum-based fuel and lubricants may be used and stored on site during the operating life of this project.
 - 4) Describe special emergency services that might be required.
The Department of Natural Resources, private, and fire protection district suppression crews may be needed in case of wildfire. In the event of personal

injuries, emergency medical services may be required. Hazardous material spills may require Department of Ecology and/or county assistance.

- 5) Proposed measures to reduce or control environmental health hazards, if any:
No petroleum-based products will be disposed of on site. If a spill occurs, containment and cleanup will be required. Spill kits are required to be onsite during all heavy equipment operations. The cessation of operations may occur during periods of increased fire risk. Fire tools and equipment, including pump trucks and/or pump trailers, will be required on site during fire season.

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

b. Noise

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

8. Land and shoreline use

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

Current use of site and adjacent land types: Commercial Forestland

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

- b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses as a result of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

This proposal site has been used as working forest lands. This proposal will retain the site in working forest lands.

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

and harvesting? If so, how:

No.

c. Describe any structures on the site.

None.

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

No.

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

Forestland

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

Commercial Forest

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

Not applicable.

h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

None.

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

None.

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

Does not apply.

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

This project is consistent with current comprehensive plans and zoning classifications.

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

None.

9. Housing

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

Does not apply.

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

Does not apply.

- c. Proposed measures to reduce or control housing impacts, if any:
None.

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?
Does not apply.
- b. What views in the immediate vicinity would be altered or obstructed?
Majority of the sale area will be void of timber after harvest.
- 1) *Is this proposal visible from a residential area, town, city, recreation site, major transportation route or designated scenic corridor (e.g., county road, state or interstate highway, US route, river or Columbia Gorge SMA)?*
- No* *Yes, name of the location, transportation route or scenic corridor:*
- 2) *How will this proposal affect any views described above?*
N/A.
- c. Proposed measures to reduce or control aesthetic impacts, if any:
The VRH portions of the timber sale will be replanted with native species following harvest. Leave trees will provide visual breaks and distribution of harvest units within the landscape will reduce the aesthetic impact of the view shed.

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?
Dispersed informal recreation in the form of hiking, hunting, fishing, berry picking, and sightseeing. Logging road are also used for ATV/motorcycles, mountain bike riding, and horseback riding.

- b. Would the proposed project displace any existing recreational uses? If so, describe.
There may be some disruptions to recreational use during periods of harvesting and hauling.
- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
None

13. Historic and cultural preservation

- a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.
No
- b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.
The sale area was reviewed by a Cultural Resource Technician. Although there are cultural resource sites in the area, there are none present within the sale and there will be no impacts to identified cultural resources.
- c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.
A check of the Department of Archaeology and Historical Preservation (DAHP) database, historic USGS map on available GIS layer, and Land Resource Manager (LRM) Special Concerns Report was used to identify cultural resources in the proposed project area. During timber sale preparation, trained foresters found no evidence within the site to indicate any potential cultural resources.
- d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.
If a presently-unknown cultural resource is discovered during project operations, DNR will comply with the 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.
Mina-Smith Rd, Moriarity Rd, La Push Rd, and Quillayute-Prairie Rd.
- 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.

- 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: Mike Jotten

Name of signee MIKE JOTTEN

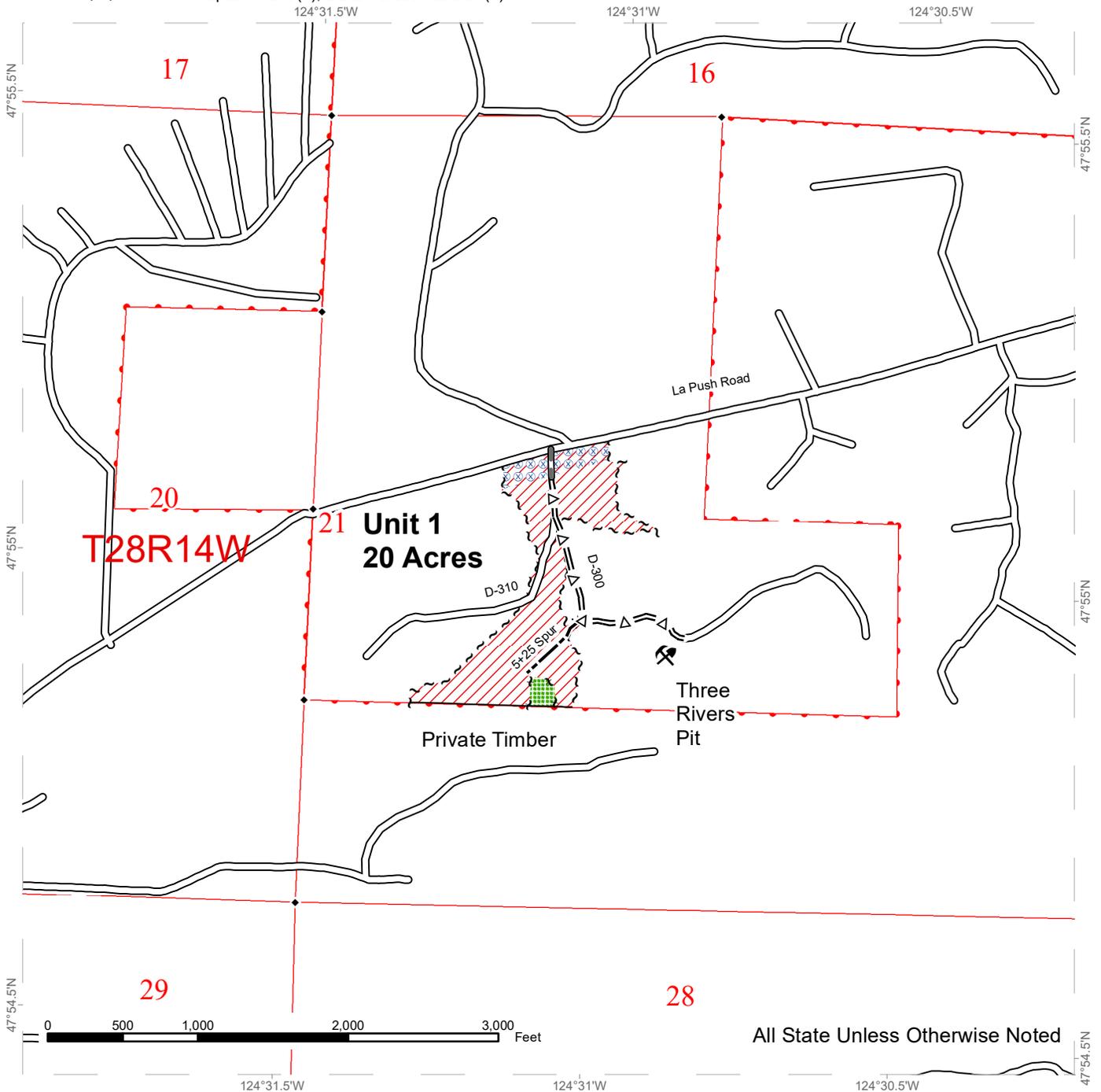
Position and Agency/Organization _____

Date Submitted: _____

TIMBER SALE MAP

SALE NAME: HOMEWARD
AGREEMENT #: 30-101114
TOWNSHIP(S): T28R14W, T28R15W, T29R14W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 80'-120'



All State Unless Otherwise Noted

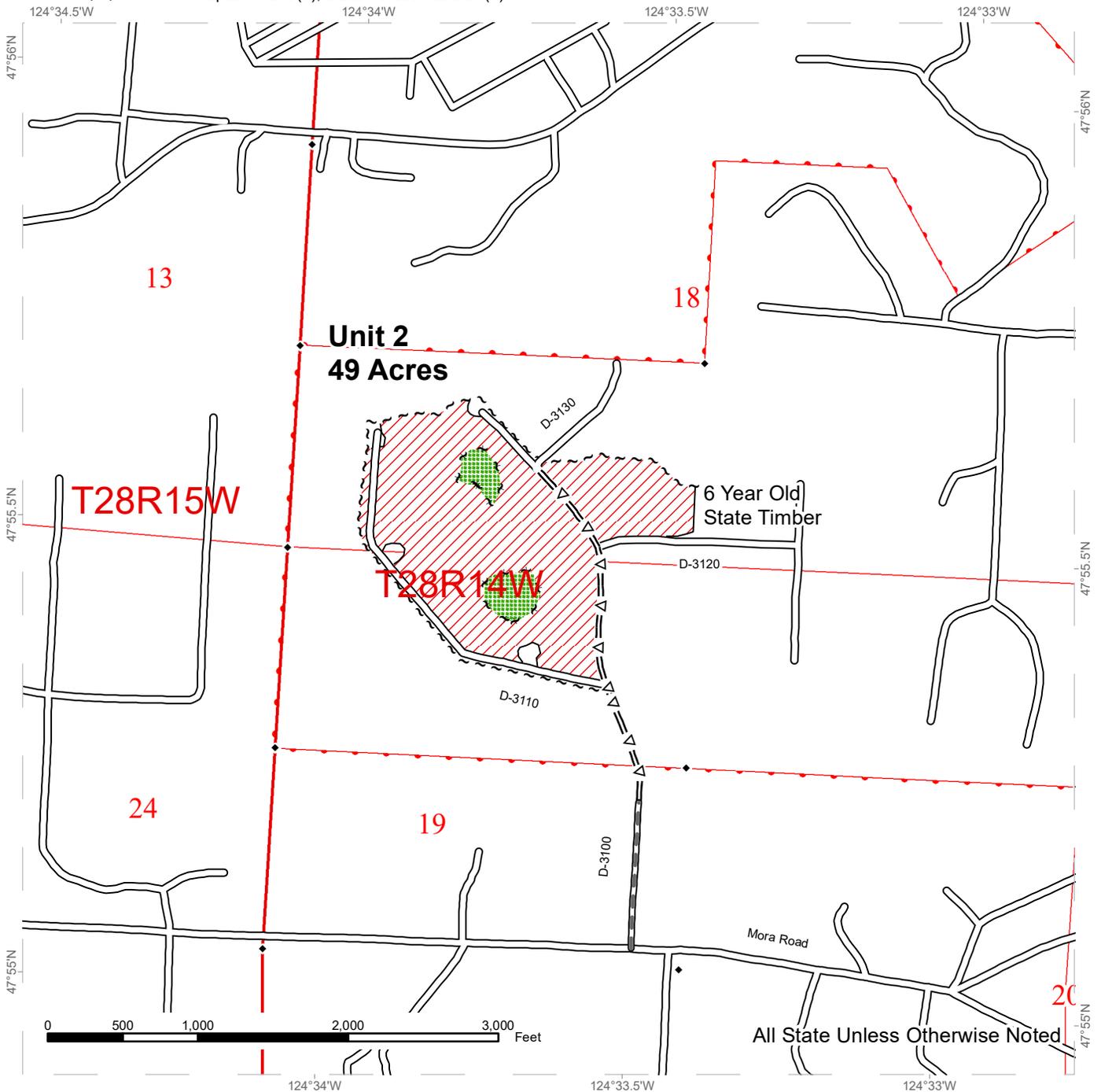
◆ Survey Monument	▭ Section Lines	~ ~ ~ Timber Sale Boundary Tags
⚡ Rock Pit	▭ Property Lines	~ ~ ~ Leave Tree Tags
▨ Variable Retention Harvest	— Existing Roads	~ ~ ~ Right of Way Tags
▩ Leave Tree Area	— Required Pre-Haul Maintenance	— Timber Type Change
▨ Hazard Abatement Area	=Δ= Optional Pre-Haul Maintenance	
▭ Township/Range Lines	— Optional Construction	



TIMBER SALE MAP

SALE NAME: HOMEWARD
AGREEMENT #: 30-101114
TOWNSHIP(S): T28R14W, T28R15W, T29R14W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 80'-120'



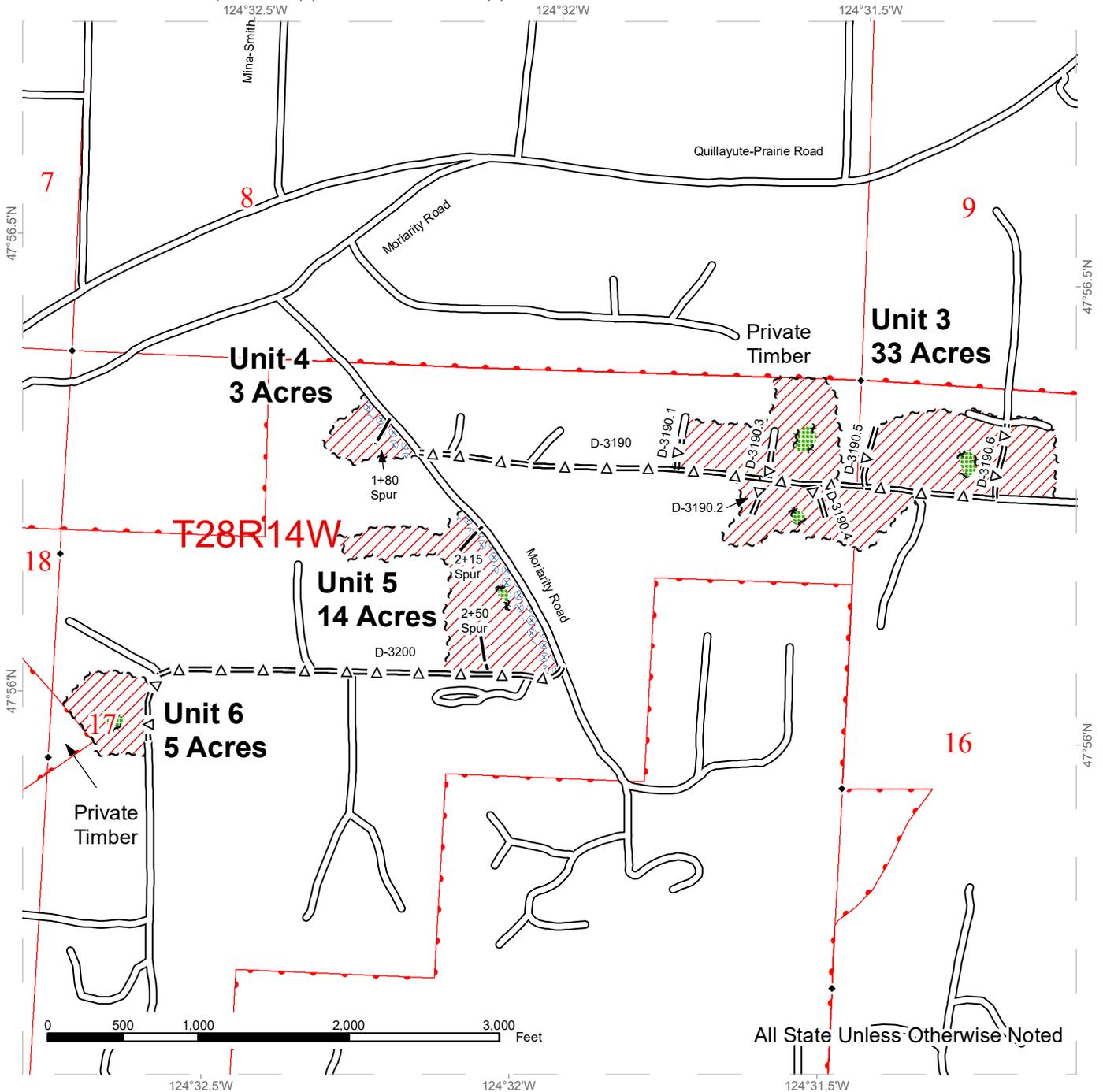
◆	Survey Monument	—	Existing Roads
▨	Variable Retention Harvest	—▲—	Required Pre-Haul Maintenance
▩	Leave Tree Area	~△~	Optional Pre-Haul Maintenance
▭	Township/Range Lines	~ ~ ~	Timber Sale Boundary Tags
▭	Section Lines	~ ~ ~	Leave Tree Tags
▭	Property Lines	—	Timber Type Change



TIMBER SALE MAP

SALE NAME: HOMEWARD
AGREEMENT #: 30-101114
TOWNSHIP(S): T28R14W, T28R15W, T29R14W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 80'-120'



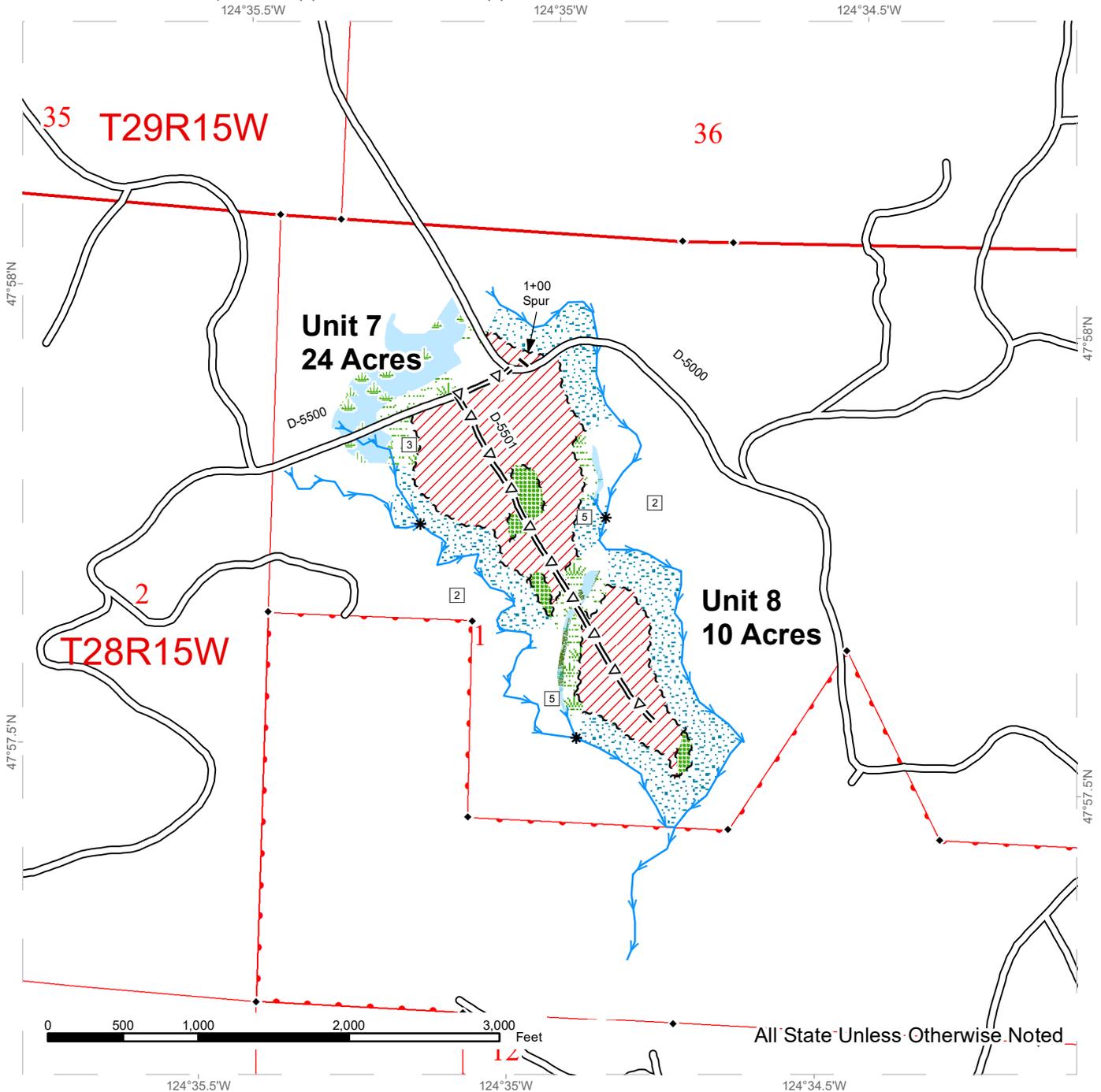
All State Unless Otherwise Noted

◆	Survey Monument	▭	Property Lines
▨	Variable Retention Harvest	—	Existing Roads
▩	Leave Tree Area	=Δ=	Optional Pre-Haul Maintenance
⊗	Hazard Abatement Area	---	Optional Construction
▭	Township/Range Lines	~ ~ ~	Timber Sale Boundary Tags
▭	Section Lines	+ + +	Leave Tree Tags

TIMBER SALE MAP

SALE NAME: HOMEWARD
AGREEMENT #: 30-101114
TOWNSHIP(S): T28R14W, T28R15W, T29R14W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 80'-120'



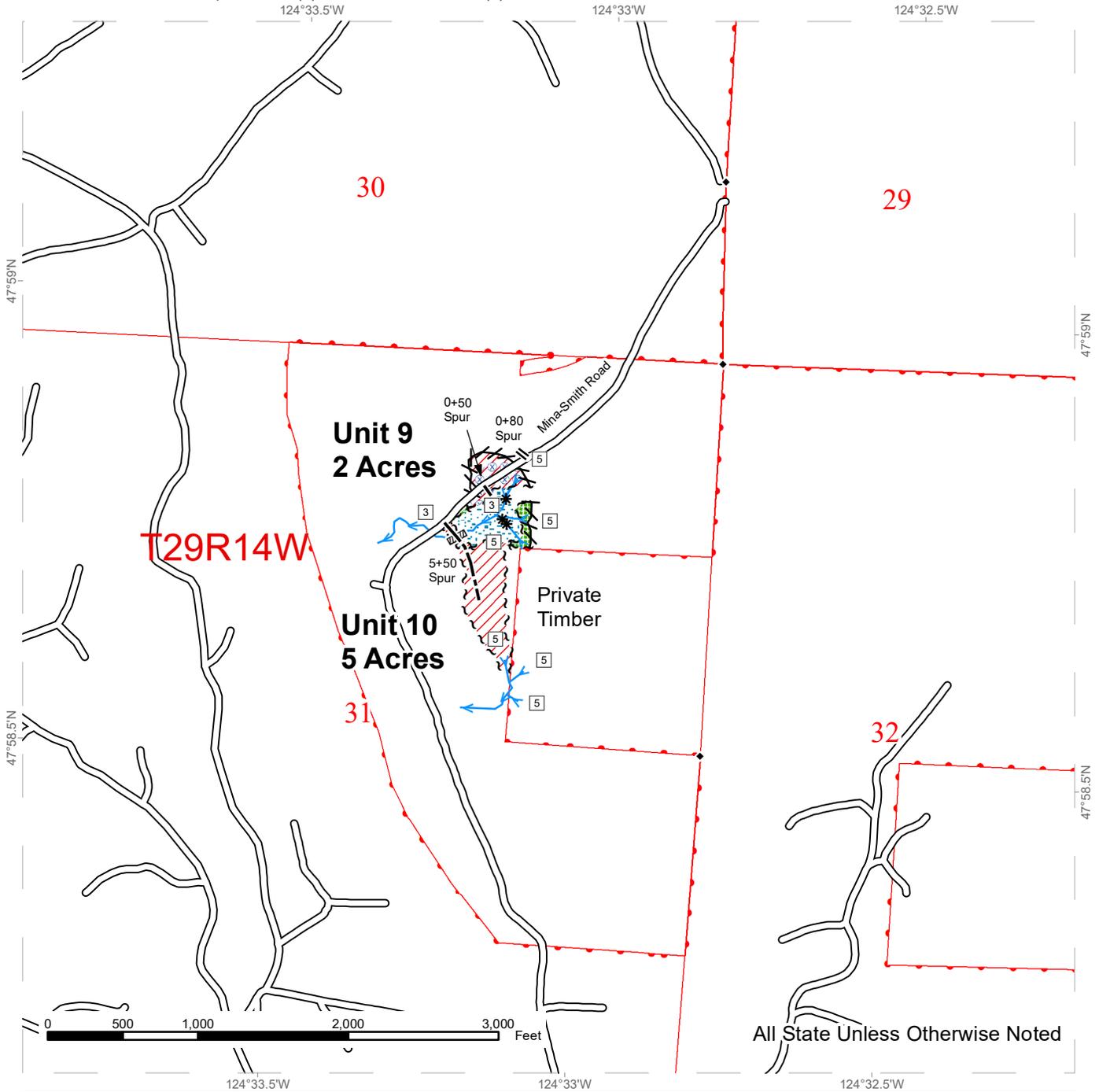
◆ Survey Monument	Forested Wetland	=Δ= Optional Pre-Haul Maintenance
☐ Stream Type	Wetland Management Zone	--- Optional Construction
* Stream Type Break	Township/Range Lines	~ ~ ~ Timber Sale Boundary Tags
Variable Retention Harvest	Section Lines	~ ~ ~ Leave Tree Tags
Leave Tree Area	Property Lines	~ ~ ~ Right of Way Tags
Riparian Management Zone	Streams	
Wetlands - Non-forested	Existing Roads	



TIMBER SALE MAP

SALE NAME: HOMEWARD
AGREEMENT #: 30-101114
TOWNSHIP(S): T28R14W, T28R15W, T29R14W
TRUST(S): Capitol Grant (7), State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 80'-120'



All State Unless Otherwise Noted

◆ Survey Monument	⊗⊗⊗⊗ Hazard Abatement Area	--- Optional Construction
▨ Culvert	▭ Township/Range Lines	~ ~ ~ Timber Sale Boundary Tags
▭ Stream Type	▭ Section Lines	~ ~ ~ Leave Tree Tags
* Stream Type Break	▭ Property Lines	~ ~ ~ Right of Way Tags
▨ Variable Retention Harvest	→ Streams	/// Flag Line
▨ Leave Tree Area	— Existing Roads	
⊗ Riparian Management Zone	=Δ= Optional Pre-Haul Maintenance	

