I have reviewed this SEPA checklist.
My comments are included in blue.

Krista Pagel, Forest Practices Coordinator
Olympic Region DNR

10/7/2024

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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.

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A. BACKGROUND

1. Name of proposed project, if applicable:

Timber Sale Name: **ALLEY CAT**
Agreement # **30-104800** FPA 2618519 & 2618524

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

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

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

4. Date checklist prepared: **2/8/2024**

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

6. Proposed timing or schedule (including phasing, if applicable):
a. *Auction Date:*
01/29/2025

b. *Planned contract end date (but may be extended):*
10/31/2027

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:
For Units 1-8 (excluding Unit 42): Assessment for treatment will occur after completion of harvest. Site preparation including a chemical herbicide application, may be used to ensure that planting is successful at acceptable levels to meet or exceed Forest Practice standards.

b. Regeneration Method:
For Units 1-8 (excluding Unit 42) will be hand planted with native seedlings following harvest. Unit 42 is a thinning treatment designed to leave a well-stocked stand and does not need regenerating.

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:
Biomass not removed during harvest may be piled near roads and landings. After the project is complete, any remaining piles may be offered for public firewood cutting, burned, or sold. 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*: **Elwha River**
- ☒ *temp*
- ☐ *sediment*
- ☐ *completed TMDL (total maximum daily load)*

☐ *Landscape plan:*
☐ *Watershed analysis:*
☐ *Interdisciplinary team (ID Team) report:*
☒ *Road design plan:* **Alley Cat Road Plan**
☐ *Wildlife report:*
☒ *Geotechnical report:* **Geologist Report**
☐ *Other specialist report(s):*
☐ *Memorandum of understanding (sportsmen's groups, neighborhood associations, tribes, etc.):*
☒ *Rock pit plan:* **Place Pit Plan**
☒ *Other:* **Wetland mitigation memo, WOGHI assessment**

Geo report, Appendix D, Slope Stability Maps are available on FPARS with FPA 2618519

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

- **DNR Policies and Implementation**
  - **Policy for Sustainable Forests (PSF; 2006a)**
  - **Final Environmental Impact Statement on the Policy for Sustainable Forests (2006b)**
  - **Alternatives for the Establishment of a Sustainable Harvest Level for Forested State Trust Lands in Western Washington Final Environmental Impact Statement (2019)**
  - **Landscape Assessment to Identify and Manage Structurally Complex Stands to Meet Older-Forest Targets in Western Washington, May 2024 (Revised September 2024).**
  - **Identifying Mature and Old Forests in Western Washington by Robert Van Pelt (2007).**
  - **Silvicultural Rotational Prescriptions**
  - **Land Resource Manager Reports and associated maps**

- **DNR Trust Lands Habitat Conservation Plan and Supplemental Information**
  - **Final Habitat Conservation Plan (HCP; 1997)**
  - **Final (Merged) Environmental Impact Statement for the Habitat Conservation Plan (1998)**
  - **Long-Term Conservation Strategy for the Marbled Murrelet Final Environmental Impact Statement (2019)**
  - **Final State Trust Lands Habitat Conservation Plan Amendment: Marbled Murrelet Long-term Conservation Strategy**
  - **Riparian Forest Restoration Strategy (RFRS; 2006)**
  - **Spotted Owl Habitat GIS Layer**
  - **Marbled Murrelet Habitat GIS Layer**
  - **WAU Rain-On-Snow GIS Layer and Reports**
  - **Biological Opinion on the HCP, USFWS; January 27, 1997**
  - **Biological Opinion on the HCP, NMFS; January 29, 1997**
  - **Biological Opinion on the HCP Marbled Murrelet Long-term Conservation Strategy Amendment, USFWS; November 7, 2019**
  - **Reinitiated Biological Opinion on the Incidental Take Permit (PRT-812521), USFWS; March 21, 2024**
- **Forest Practices Regulations and Compliance**
  - **Forest Practices Board Manual**
  - **Forest Practices Activity Maps**
  - **Trust Lands HCP Addendum and Checklist**
- **Supporting Data for Unstable Slopes Review**
  - **State Lands Geologist Remote Review (SLGRR)**
  - **Lidar Data and Derivatives**
  - **Draft Landform Remote Identification Model (LRIM) screening tool**
  - **Published Landslide Inventories**
  - **Historic Aerial Photographs**
  - **Published Geologic Mapping**
- **Supporting Data for Cultural Resources Review**
  - **Historical Aerial Photographs**
  - **USGS and GLO maps**
  - **Department of Archaeology and Historic Preservation database for architectural and archaeological resources and reports (WISAARD)**
- **Additional Supporting Data for Policy Compliance**
  - **Weighted Old Growth Habitat Index (WOGHI)**
  - **State Soil Survey**
  - **Stand Development Stage Assessment form**

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.

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10. List any government approvals or permits that will be needed for your proposal, if known.

FPA 2618519 & FPA 2618524

☒ *FPA #* **TBD** ☒ *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:

The Alley Cat timber sale, agreement #30-104800 and associated forest practices application, is located in Clallam County, Washington approximately 6 miles west of Port Angeles off of Hansen road, Bear Tracks road, and various private driveways off of Hwy 101. It encompasses approximately 139 gross acres with an estimated volume of 2,884 mbf. This proposal consists of eight variable retention harvest units, one WMZ thinning units, and five right-of-way units and is located in the Sutherland-Aldwell WAU. Within the proposal area there are 4.7 acres of leave tree areas, 30.7 acres of riparian management zone, and 7.2 acres of wetland management zones. The net harvest acreage is 96.1 acres. Approximately 6,710 feet of new road construction, 4,045 feet of road reconstruction, and 15,455 feet of pre-haul maintenance have been proposed to meet the access needs of the sale area. The designated rock sources will be Place Pit and commercial sources.

96.9 Acres.

4 Ns crossings are proposed per Q14 in FPAs 2618519 & 2618524.
Crossing C4 on FPA 2618524 is located on private property.

Unit	Proposal Acres (*gross*)	RMZ Acres	WMZ Acres	Existing Road Acres *(within unit)*	Leave Tree Clump Acres	Net Harvest Acres
1	16.5	6.0	0	0	0.5	10.0
2	9.6	0.8	0	0	0.4	8.4
3	23.3	0.2	0	0	1.1	22.0
41	39	12	0	0	1.3	25.7
42 (VDT)	2.8	0	0	0	0	2.8
5	8.9	1.8	0	0	0.4	6.7
6	23.7	6.9	7.2	0	0.7	8.9
7	2.9	1.4	0	0	0	1.5
8	7.1	1.6	0	0	0.3	5.2
9 (ROW)	1.9	-	-	-	-	1.9
10 (ROW)	1.7	-	-	-	-	1.7
11 (ROW)	0.5	-	-	-	-	0.5
12 (ROW)	0.1	-	-	-	-	0.1
13 (ROW)	0.7	-	-	-	-	0.7
Totals	138.7	30.7	7.2	0.0	4.7	96.1

Per FPA 2618519 Q19, 96.9 harvest acres.

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: **In the Alley Cat Timber Sale 96 net acres are being harvested, while 43 acres (31% of the proposal area) are being conserved from the overall proposal area that was evaluated for harvest. These conservation areas may include potentially unstable slopes, riparian and wetland management zones and other conservation areas. Many of these conservation areas are regeneration harvest deferred and will contribute to older-forests over time. The stage of stand development for the harvest areas within this proposal on the stand level scoring using the Van Pelt guide (Van Pelt 2007) includes stands in stages of Biomass Accumulation/Stem Exclusion and Maturation II.**

Unit	Origin Date	Major Timber Species	MBF/acre	Slope %	Elevation Range (ft)
1	1886	Douglas-fir, cedar	31	100	910-1,230
2	1917	Douglas-fir, cedar	45	92	1,010-1,275
3	1936	Douglas-fir, cedar	29	85	575-940
41	1944	Douglas-fir, cedar	27	100	470-650
42 (WMZ)	1944	Douglas-fir, cedar	5	77	595-650
5	1914	Douglas-fir, cedar	50	110	1,020-1,275
6	1923	Douglas-fir, cedar	33	105	360-520
7	1944	Douglas-fir, cedar	27	89	650-880
8	1944	Douglas-fir, cedar	28	110	655-915
9 (ROW)	1990	Douglas-fir	5	100	725-1,180
10 (ROW)	1990	Douglas-fir	11	85	795-890
11 (ROW)	1986	Douglas-fir	9	75	985-1,050
12 (ROW)	1990	Douglas-fir	11	30	494-500
13 (ROW)	1985	Douglas-fir	11	35	595-650

Slope % matches FPA 2618519 Q19.

Type of Harvest:

Unit	Harvest Type (VDT/VRH/etc)	Volume to be Harvested (mbf)	Volume to be Harvested (%)	Individual Leave Trees	Clumped Leave Trees	Total Leave Trees
1	VRH	311	95	20	67	87
2	VRH	377	95	30	43	73
3	VRH	641	95	21	167	188
41	VRH	690	95	52	184	236
42	VDT	13	25	-	-	-
5	VRH	336	95	36	33	69
6	VRH	298	95	21	58	79
7	VRH	41	95	12	0	12
8	VRH	145	95	12	32	44
9	ROW	10	100	-	-	-
10	ROW	20	100	-	-	-
11	ROW	4	100	-	-	-
12	ROW	1	100	-	-	-
13	ROW	7	100	-	-	-

MBF Volume to be harvested and % volume to be harvested matches FPA 2618519 Q19.

Overall Unit Objectives:

The overall objectives for this sale includes the production of saw logs and pulp material to generate revenue for trusts while expediting the development of a more diverse multi-storied forest canopy in the future stand. This will be accomplished through the leave tree retention strategy, thinning, and wetland management zones. These stands will be managed to protect site productivity and maintain the integrity and water quality of adjacent streams.

Ecological- Promote diverse forest structure across the landscape while preserving ecological integrity and function.

Economic- Generate revenue for the State trust beneficiaries.

Statute- Comply with the DNR's HCP, the Policy for Sustainable Forests, and Forest Practice Rules and Regulations.

Social- Accommodate dispersed informal recreational activities on DNR managed lands and identify and protect historical and archaeological sites consistent with state/federal law.

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		6,710	4	0
Reconstruction		4,045		0
Maintenance		15,455		0
Abandonment		0		0
Bridge Install/Replace	0			0
Stream Culvert Install/Replace (fish)	0			0
Stream Culvert Install/Replace (no fish)	5			
Cross-Drain Install/Replace	22			

Construction/Reconstruction matches FPA 2618519 Q16.

FPA 2618519 proposes 3 Ns stream culvert install/ maintenance and FPA 2618524 proposes 1 Ns replacement. Total of Ns crossings proposed in FPAs is 4.

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:* **T30-0N R7-0W S22, T30-0N R7-0W S27, T30-0N R7-0W S14, T30-0N R7-0W S15, T30-0N R7-0W S23, T30-0N R7-0W S26** Legal description matches FPA 2618519 & 2618524 Q7.

b. *Distance and direction from nearest town:* **Approximately 6-9 miles west of Port Angeles, 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 Sutherland-Aldwell WAU. Ownership across the WAUs includes large industrial forests, private land owners, and Department of Natural Resources managed forests. Forested stands within the WAUs 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 WAUs indicate that the WAUs are intensively managed for timber production.

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

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

of an intact and synergistic industrial sector, is an integral component of the state's contribution to the global climate response and efforts to mitigate carbon emissions." RCW 70A.45.090(1)(a).

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

DNR is legally required (RCW 79.10.320) to periodically calculate a sustainable harvest level and manages state trust lands sustainably. DNR has also maintained (statewide) a forest management certificate to the Sustainable Forestry Initiative standard since 2006. In managing state trust lands sustainably, DNR sequesters more carbon than it emits while conducting land management activities such as this proposal.

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

b. *Briefly describe existing plans and programs (i.e. the HCP, DNR landscape plans, retention tree plans) and current forest practice rules that provide/require mitigation to protect against potential impacts to environmental concerns listed in question A-13-a.*

The Department of Natural Resources has a multi-species Habitat Conservation Plan (HCP) with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service concerning threatened and endangered species and their habitats, which requires the Department to manage landscapes to provide and sustain long-term habitat in exchange for an Incidental Take Permit. This agreement substantially helps the Department to mitigate for cumulative effects related to management activities. The Department follows Forest Practices Rules as applicable to roads and potentially unstable slopes. The Department follows Forest Protections related to fire hazard mitigation.

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

In September 2024, the DNR revised a document titled '*Landscape Assessment to Identify and Manage Structurally Complex Stands to Meet Older-Forest Targets in Western Washington, May 2024*' (landscape assessment). This document describes the background, historical analyses regarding attainment of older-forest conditions in western Washington, and updated data and modeling analyses showing when the various HCP planning units across western Washington are expected to attain a level of older-forest conditions through implementation of the HCP and other conservation objectives, and outlined as targets within the PSF.

This landscape assessment identifies the existing structurally complex stands, and additional suitable stands, to be managed for older-forest targets over time. The identified stands are located in conservation areas and deferred stands unavailable for regeneration harvest. These stands include areas identified as long-term forest cover under the marbled murrelet long-term conservation strategy, riparian areas, areas conserved under the multispecies conservation strategy, potentially unstable slopes, spotted owl nest patches, old growth, Natural Areas and Natural Resource Conservation Areas, and other conservation areas permanently deferred from regeneration harvest.

Some of these conservation areas are based on specific HCP strategies that are spatially fixed and conserved on the landscape, such as marbled murrelet occupied sites or spotted owl nest patches. However, other conservation areas are modeled and must be field verified based on HCP strategies, such as riparian areas or unstable slopes. There is naturally some adjustment to the location, absence, or presence of conservation areas upon field verification. This timber sale has been field verified for compliance with all conservation objectives and the planned harvest units are determined not to be regeneration harvest deferred and are available for harvest. These harvest areas also do not count towards the attainment of older-forests over time and have been excluded from the calculations and tables included in the landscape assessment. Conversely, when field verification identifies specific areas required for conservation, they will be protected from harvest and included in future conservation area modeling.

The landscape assessment demonstrates that while the Straits HCP Planning Unit does not currently contain 10 to 15 percent older-forest conditions, the structurally complex and other suitable stands designated to be managed for older-forest targets are projected to develop into older-forest structure that meets or exceeds this threshold by 2090 (Table A) through implementation of the HCP and other policies and laws. Stands identified to be managed toward older-forest targets, including currently older-forests and stands projected to develop older-forest structure in the future, are depicted in associated maps within the landscape assessment document for each western Washington HCP planning unit.

Table A. Percent area western Washington HCP planning units with older-forest stands in conservation areas by decade through 2120. With plot discounts and disturbance factor. Landscape Assessment to Identify and Manage Structurally Complex Stands to Meet Older-Forest Targets in Western Washington, May 2024 (Revised September 2024).

ADJUSTED QUERY OUTPUT (WITH PLOT DISCOUNT & DISTURBANCE FACTOR)											
HCP Planning Unit	**Year**										
	2021	**2030**	**2040**	**2050**	**2060**	**2070**	**2080**	**2090**	**2100**	**2110**	**2120**
COLUMBIA	1.0%	1.2%	1.4%	1.7%	2.4%	3.9%	6.2%	9.4%	**13.3%**	**16.5%**	**18.2%**
N. PUGET	3.2%	3.9%	4.9%	6.2%	7.9%	**10.2%**	**13.2%**	**16.7%**	**20.5%**	**23.9%**	**25.0%**
OESF	**10.2%**	**10.7%**	**11.0%**	**11.7%**	**12.6%**	**13.9%**	**15.9%**	**20.0%**	**24.9%**	**28.3%**	**29.5%**
S. COAST	0.2%	0.3%	0.6%	1.2%	2.1%	3.6%	5.9%	8.8%	**12.2%**	**15.9%**	**18.6%**
S. PUGET	1.7%	2.2%	2.7%	3.6%	4.6%	6.1%	8.4%	**11.3%**	**14.4%**	**17.1%**	**18.7%**
STRAITS	1.9%	2.6%	3.2%	4.3%	5.6%	7.4%	9.9%	**12.6%**	**15.1%**	**18.0%**	**19.5%**

DNR has designated forest stand acreage within regeneration harvest deferred areas in each HCP planning unit to meet or exceed the policy's 10% older-forest target. This identified acreage is designated in DNR's GIS database as the Westside Forest Cover (Conservation Areas) and Older-Forest in Conservation Areas layers.

The Alley Cat Timber Sale is not identified as one of those stands designated to meet older-forest targets over time. Following the timber sale, the variable retention harvest units will be replanted with native, conifer tree species that will be supplemented by natural regeneration expected to occur as a result of the conservation areas in and around the harvest units.

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. See B.1.d, B.3.c., B.4.d, B.5.d, and B.13. for more details. 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
SUTHERLAND-ALDWELL	56697	7698	1257	245	121

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:	SUTHERLAND-ALDWELL
WAU Acres:	56697
Elevation Range:	0 - 6432 ft.
Mean Elevation:	1777 ft.
Average Precipitation:	47 in./year
Primary Forest Vegetation Zone:	Western Hemlock

2. *Identify any difference between the proposal location and the general description of the WAU or sub-basin(s).*
This proposal is a representative example of the WAUs at the same elevation and aspect.

b. What is the steepest slope on the site (approximate percent slope)?
110% Steepest slope matches FPA 2618519 Q19.

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2618524

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
8047	V.GRAVELLY SANDY LOAM
1958	GRAVELLY SANDY LOAM
1959	GRAVELLY SANDY LOAM
5257	V.COBBLY SANDY LOAM
4332	GRAVELLY LOAM

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

Geo report, Appendix D, & slope stability maps are available on FPARS with FPA 2618519.

☐ *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.*

Unstable features in and around this sale include inner gorges and recharge areas of glacial deep-seated landslides.

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

☐ *No* ☒ *Yes, describe the proposed activities:* **Timber harvesting and road building have been proposed on the recharge area of a glacial deep-seated landslide.**

2) *Describe any slope stability protection measures (including sale boundary location, road, and harvest system decisions) incorporated into this proposal.*
Inner gorge rule-identified landforms are excluded from the proposal 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: **4**
Approx. acreage new landings: **1**
Fill Source: **Place Pit and commercial 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):*
Approximately 2% 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.)

The hauling of forest products will not be permitted on state roads from November 1st to April 30th unless authorized in writing by the Contract Administrator. 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 floor and/or into stable natural drainages. 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.

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

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

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

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

3. Water

a. Surface Water:

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

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

a. Downstream water bodies:

Streams in proximity to the sale area are unnamed tributaries to Little River and the Elwha River which drain into the Strait of Juan de Fuca.

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	Type B	1	130'
Wetland	Type B	1	157'
Stream	Type 2	1	130'
Stream	Type 3	2	157'
Stream	Type 4	5	100'
Stream	Type 5	12	30' equipment limitation

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

The wetland management zone (Unit 42) around wetland 1 adjacent to Unit 41 was reduced by 0.39 acres to accommodate road construction right-of-way. To mitigate for this reduction, the WMZ was expanded 0.4 acres south and west, west of the small leave tree area near it. These activities will not affect wetland area or function. Please see memo for more details. Harvest will occur within this WMZ. It will be thinned down to no less than 120 basal area and no less than 75 trees per acre. The trees to be cut in this WMZ have all been marked with red rings around the trees.

There are 2 wetlands greater than one acre associated with this sale. The one mentioned above will be thinned within the WMZ, the wetland itself will not be harvested in. The second wetland is protected with a 130 foot wide site index buffer based on the 100 year site index of Douglas-fir, and will not be harvested in.

There is one Type 2 stream associated with this sale. It is named Little River. It is protected with a 130 foot wide site index buffer based on the 100 year site index of Douglas-fir.

There are two Type 3 streams associated with this sale. They are protected with 157 foot wide site index buffer based on the 100 year site index of Douglas-fir.

There are five Type 4 streams associated with this sale. They are protected with 100 foot wide buffers per DNR policy.

There are twelve Type 5 streams associated with this sale. Some are protected by WMZ's, RMZ's, or leave tree areas. Others pass through the unit and will be protected by a 30 foot equipment limitation zone adhered by the equipment operators during harvest.

There is a 30 foot equipment limitation zone protecting ALL streams.

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 culverts and replacing culverts that will divert storm water onto stable forest floor. These actions will minimize the potential for delivery of sediment to streams. Soils exposed during road construction and re-construction activities will be protected from erosion by grass seeding, mulching with hay, and seasonal restrictions.

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, 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. Culvert and bridge work listed in A.11.C 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:*
All water flow may be temporarily diverted through bypass culverts or retained behind (or pumped around) coffer dams during culvert installation and replacement. Other typed waters may be temporarily diverted if additional culvert replacements are deemed necessary 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)?*

SUTHERLAND-ALDWELL = 2.0 (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 work standards will be applied that address this issue by installing cross-drains to deliver ditch water to stable forest floors.

10) *Is there evidence of changes to channels associated with peak flows in the proposal area (accelerated aggradations, surface erosion, mass wasting, decrease in large organic debris (LOD), change in channel dimensions)?*

☐ *No* ☒ *Yes, describe observations:*

There is evidence of changes to channels across the WAU(s). These changes are a result of natural events such as spring runoff from snowmelt and significant storm events. Channel migration, scouring, and deposition of material can be seen in channels across the WAU(s); this indicates those channels historically experience higher water levels and peak flows

11) Describe any anticipated contributions to peak flows resulting from this proposal's activities which could impact areas downstream or downslope of the proposal area.

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

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

☒ *No* ☐ *Yes, describe the water resource(s):*

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

☒ *No* ☐ *Yes, describe possible impacts:*

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

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 RMZs 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:* **Domestic well head adjacent to Unit 3.**

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: **Tagged out of the sale boundary**

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.

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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: **Pacific Yew**

☒ 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 96.9 acres of timber will be harvested per FPA 2618519 Q19.

Approximately 2,884 mbf of 51-134 year old timber will be harvested with this proposal.

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 by private land to the west and 137 year old state timber to the north, east, and south.

Unit 2 is bordered by private land to the north, east, and west and 31 year old state timber to the south.

Unit 3 is bordered by private land to the north, east, and west and 31 year old state timber to the south.

Unit 4 is bordered by private land to the north, east, and west and 45 year old state timber to the south.

Unit 5 is bordered by 31 year old state timber to the north, 109 year old state timber to the east and south, and 37 year old state timber to the west.
Unit 6 is bordered by private land to the east, south, and west and 100 year old state timber to the north.
Units 7 and 8 are bordered by private timber to the north, east, and west and by federal forest service land to the south.

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:

Measures include retaining existing stands within bounded out areas throughout the proposal. Also retaining individual leave trees and leave tree clumps within harvest units (minimally 8 trees per acre of harvest), including structurally unique and/or of the largest diameter class. Specifically, trees larger than 60 inches in diameter or greater will remain on-site. Replanting with native conifer species in the VRH units will also occur following harvest. Other native conifer and deciduous species may regenerate naturally on-site.

All of the proposed Alley Cat timber sale units were reviewed by an Old Growth Designee as well as qualified field staff for the presence old growth; including individuals and clumps greater than 5 acres per DNR policy. These units were also screened via ArcGIS spatial datasets to identify areas with a moderate or high probability of old growth occurrence (RS-FRIS Combined Origin Year raster layer, and Weighted Old Growth Habitat Index points and polygon layers).

Due to the above review, one old growth forest patch of five acres or more was identified adjacent to Unit 5 and has been excluded from this proposal. Additionally, scattered old growth remnants were individually marked for retention where available. In the event that one of these trees need to be cut to facilitate road building or safe harvest operations, it will be left on site to serve as downed wood recruitment.

e. List all noxious weeds and invasive species known to be on or near the site.
Scotch broom, Holly

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:

FPRAM review of FPA 2618519 & 2618524 indicates proposal is within the Lake Aldwell, Griff Creek-Elwha, McDonald Mtn, and Madison Creek NSO circles, outside of SOSEA and not in Best 70.

Proposal is within a MM detection area and within the 1.5 mile buffer of an occupied site.

Part of the proposal is within a Taylor's Checkerspot Butterly area of concern.

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
ALLEY CAT U2	Northern Spotted Owl	Threatened	Endangered
ALLEY CAT U7	Marbled murrelet	Threatened	Endangered

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: **Wetland and Riparian**
Protection Measures: **Buffers have been applied to all type 2, 3, 4 streams and wetlands. Equipment limitation zones are on all typed waters as described in B.3.a.1)b). Riparian buffers are designed to protect the unstable portions of the stream banks and help to protect waters from siltation and increased temperature 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. There will be thinning of a wetland WMZ, Unit 42. The WMZ will be thinned to maintain a minimum Basal Area of 120 square feet/acre or greater.

Right-of-way clearing and harvest associated with Unit 41 and 42 will infringe upon the WMZ for the wetland associated with Unit 42. "On site and in kind" mitigation has been identified to compensate for the loss of buffer acreage, as required by DNR's HCP. There will be no loss of function to the WMZs. See memos provided by the Region Biologist for further details.

Species /Habitat: **Upland**

Protection Measures: **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.**

Species /Habitat: **Marbled Murrelet**

Protection Measures: **The proposal does not occur within marbled murrelet special habitat areas, occupied sites, occupied site buffers, or marbled murrelet habitat (P-stage) that has been designated for metering. Previously modeled long term forest cover (LTFC) is being updated as a result of field verification and no harvest will occur within verified LTFC. In guidance with our habitat conservation plan, no special murrelet protections are needed.**

Species /Habitat: **Northern Spotted Owl**

Protection Measures: **Harvest units fall within the McDonald Mtn, Madison Creek, Lake Aldwell, and Griff Creek-Elwha status one owl circles. No activity will occur in spotted owl best 70 acres.**

Species /Habitat: **Old Growth and Older Forests**

Protection Measures: **Forest stands that may have an origin date before 1850 have been assessed by a State lands old growth specialist. Stands with an origin before 1850 that are over 5 acres have been delineated and the proposal has been designed to exclude them. Where possible, leave trees have been placed strategically to provide further protection to these features.**

Additionally, remnant old growth and older individual trees not constituting a stand (as defined by the DNRs HCP) within the harvest areas, have been marked for retention. In the event that one of these trees need to be cut to facilitate road building or safe harvest operations, it will be left on site to serve as downed wood recruitment.

e. List any invasive animal species known to be on or near the site.
None known.

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.

To mitigate noise, restrictions will be in be in place as to not allow for harvest and road activities on weekends, State recognized Holidays, and from the hours of 8:00 PM to 6:00 AM

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:

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?
Commercial forest

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?

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:*
Highway US-101

2) *How will this proposal affect any views described above?*
Portions of the timber harvest will be visible to this area. There will be a slight increase in traffic from these activities on the county roads used for hauling.

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.

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.

Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:
Measures will include posting signs notifying users of the ongoing timber sale activities including cutting, yarding and hauling.

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

FPRAM review indicates there is no conflict with cultural resources or archaeological/ historic sites.

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.
No

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.
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 and historical resources in the proposed project area.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.
If presently-unknown skeletal remains, cultural resources, or both become known during project operations, DNR will comply with the Discovery of Skeletal Remains or Cultural Resources procedure.

14. Transportation

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.
Olympic Hot Springs road, Hansen road, and US-101

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 one mile away.

c. 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.

d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.
No.

e. 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 6:00 a.m. and 8:00 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.

f. 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.

g. 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: Benjamin Stein

Name of signee: **Benjamin Stein**

Position and Agency/Organization: **Planning Forester, Washington DNR**

Date Submitted: 09/26/2024

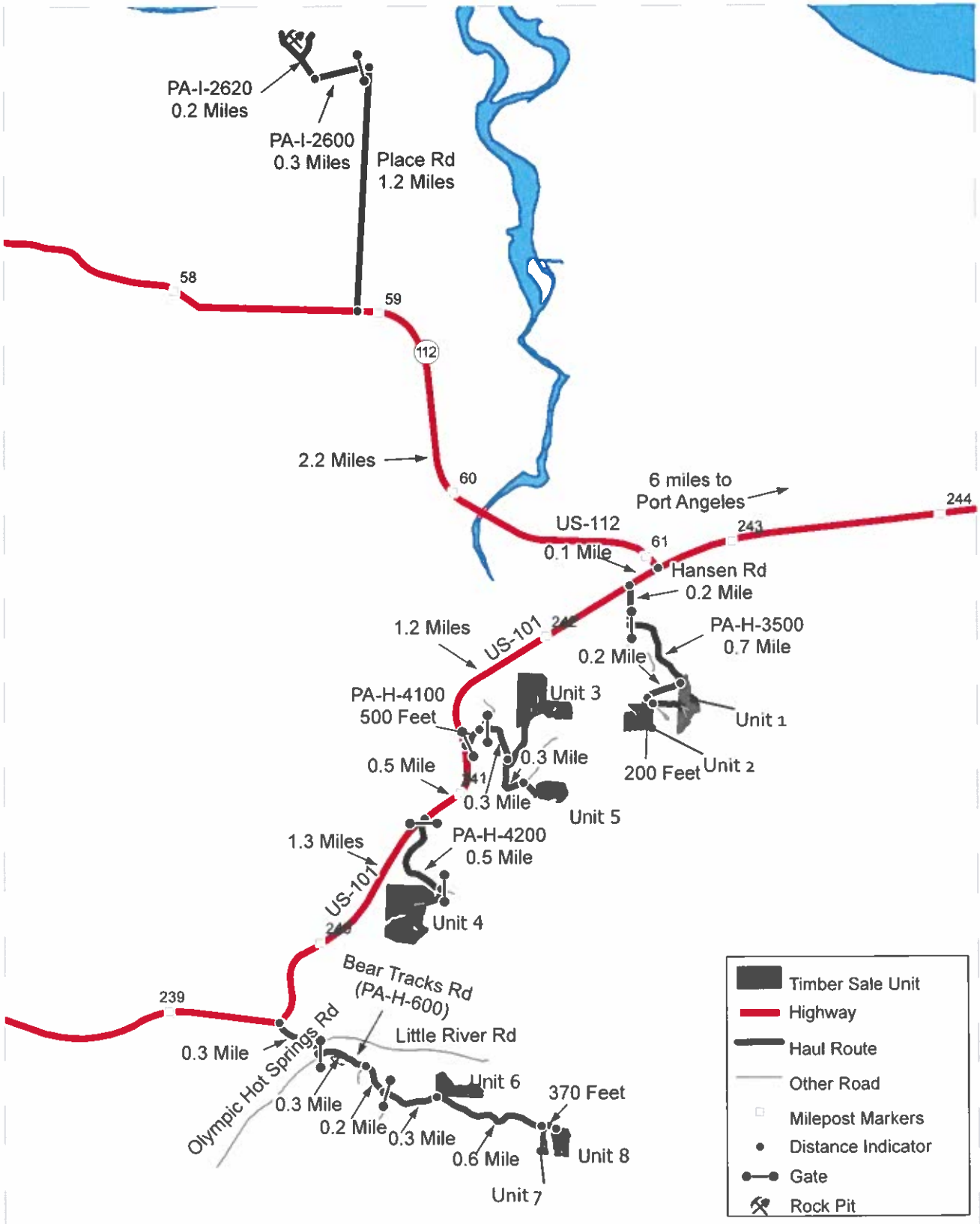
2618519

2618524

DRIVING MAP

SALE NAME: ALLEY CAT
AGREEMENT#: 104800
TOWNSHIP(S): T30R7W
TRUST(S): State Forest Transfer (1)

REGION: Olympic Region
COUNTY(S): Clallam
ELEVATION RGE: 480-1280



Map may not be to scale
Prepared By: bsin490

Modification Date: bnel490 2/20/2024

Alley Cat Driving Directions

*Please contact the contract administrator for information to access all areas behind gates.

Units 1 and 2: Head west from Port Angeles on US-101 for 5.8 miles. 0.1 mile past the turn off for US-112 turn left on Hansen road and continue 0.2 mile up the hill and turn left onto the PA-H-3500, through the gate and continue through the property and up the hill past the property for 0.65 mile. Here at the curve in the dirt road, you will be immediately adjacent to the north end of unit 1. Continue 0.18 mile to where you will see the road flagging for the 0+80 Spur head uphill into unit 2. 200 feet past the turn into unit 2 there is flagging marking the PA-H-3510 leading into the south end of unit 1. Return to US-101 to get the remainder of the units.

Units 3 and 5: After you return to US-101, turn left heading west. Go 1.2 miles and turn left onto the PA-H-4100 and go through the gate. Go approximately 500 feet past the gate to where the driveway splits, take the right side and continue through a second gate and go approximately 0.25 mile to where the flagging cuts to the left on the PA-H-4150 for access to unit 3. Continue past here another 0.25 mile to where the flagging for the PA-H-4130 into unit 5 heads right, up the hill for access into unit 5. Return to US-101 to get to the remainder of the units.

Unit 4: After you return to US-101, turn left heading west. Go 0.45 miles and turn left onto the PA-H-4200, continue through the gate and go another 0.47 mile to a second gate and large pull off on the right. From this pull off there is flagging marking the PA-H-4210 road into unit 4 to the southwest. Return to US-101 to get to the remainder of the units.

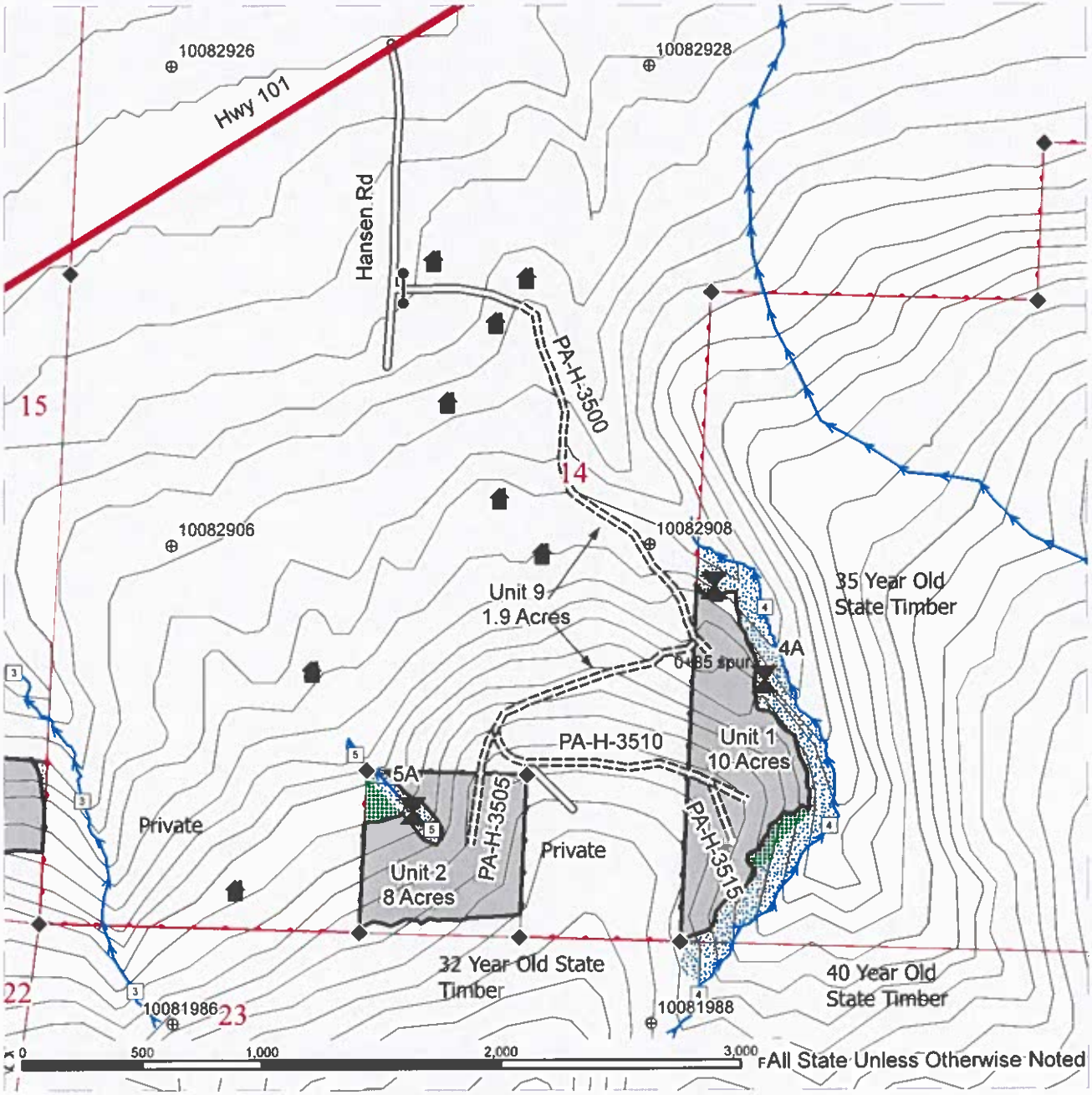
Units 6, 7, and 8: After you return to US-101, turn left heading west. Go 1.3 miles and turn left on Olympic Hot Springs Road and go approximately 0.25 mile and turn left on Bear Tracks Road (PA-H-600). Go through the gate on Bear Tracks Road (PA-H-600). Continue up Bear Tracks Road (PA-H-600) another 0.25 mile where the main road takes a hard curve right, and continue straight on a less traveled section of the driveway. Continue another 0.15 mile to another gate on the left, continue through this gate and go another 0.27 mile to where you will see the flagging for the PA-H-650 road headed into unit 6 on the left. Continue past this point another 0.56 mile to the corner of unit 7. Continue past this point another 370 feet to the corner of unit 8.

2618519

FOREST PRACTICES ACTIVITY MAP

SALE NAME: ALLEY CAT
APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
TOWNSHIP(S): T30R7W



Sale Area	Highway	Culvert
Leave Tree Area	Existing Roads	Gate
Wetlands - Non-forested	New Construction	Potential Inner Gorge
Wetland Mgt Zone	Streams	Rock Pit
Riparian Mgt Zone	Stream Type	Structure
Contours 40-foot	Stream Type Break	Waste Area
Survey Monument	Tics - 2000' Interval	Well Head

N

Prepared By: bsln490

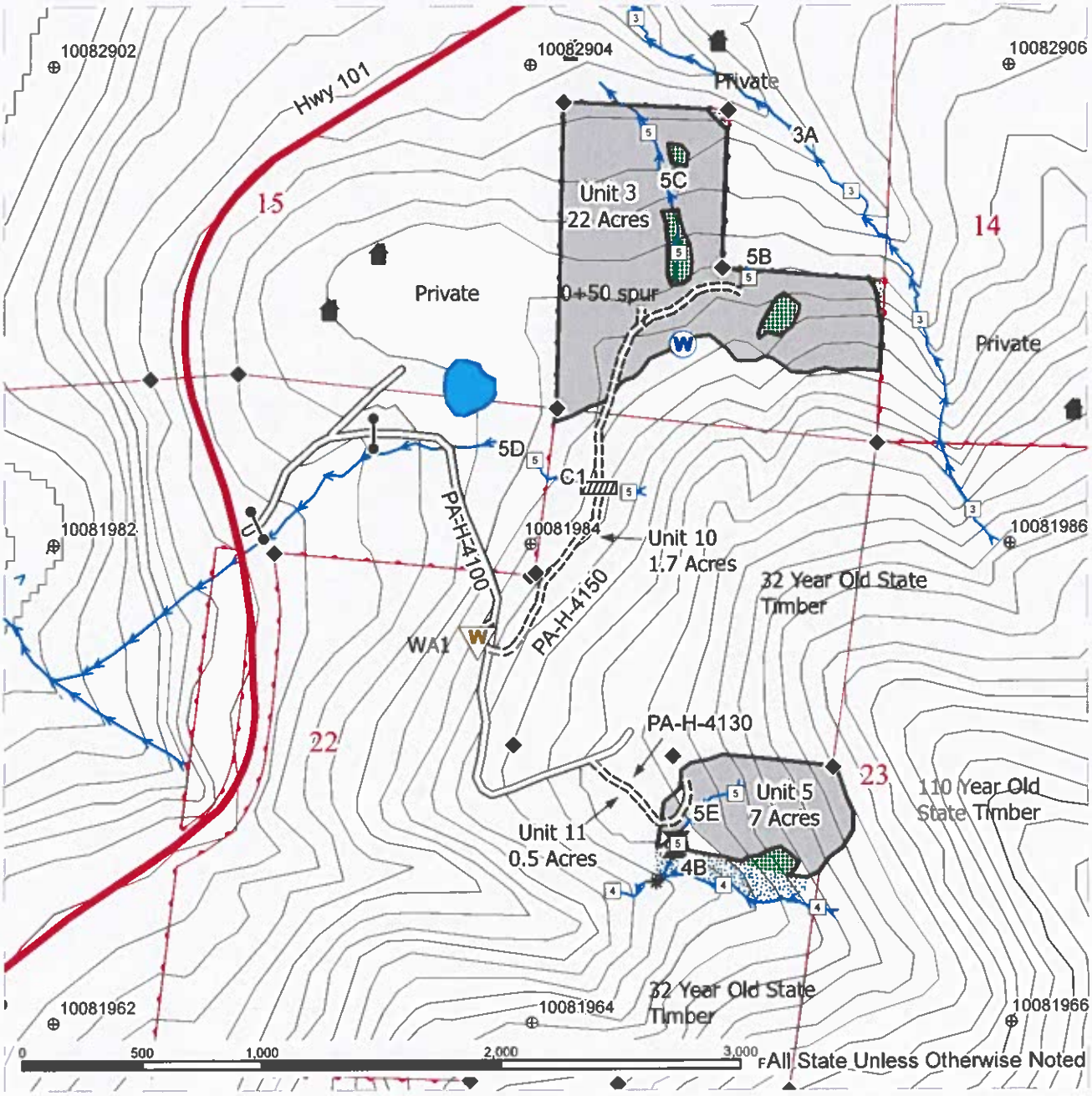
Modification Date: bnel490 4/2/2024

2618519

FOREST PRACTICES ACTIVITY MAP

SALE NAME: ALLEY CAT
APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
TOWNSHIP(S): T30R7W



Sale Area	Highway	Culvert
Leave Tree Area	Existing Roads	Gate
Wetlands - Non-forested	New Construction	Potential Inner Gorge
Wetland Mgt Zone	Streams	Rock Pit
Riparian Mgt Zone	Stream Type	Structure
Contours 40-foot	Stream Type Break	Waste Area
Survey Monument	Tics - 2000' Interval	Well Head

N

Prepared By: bsin490

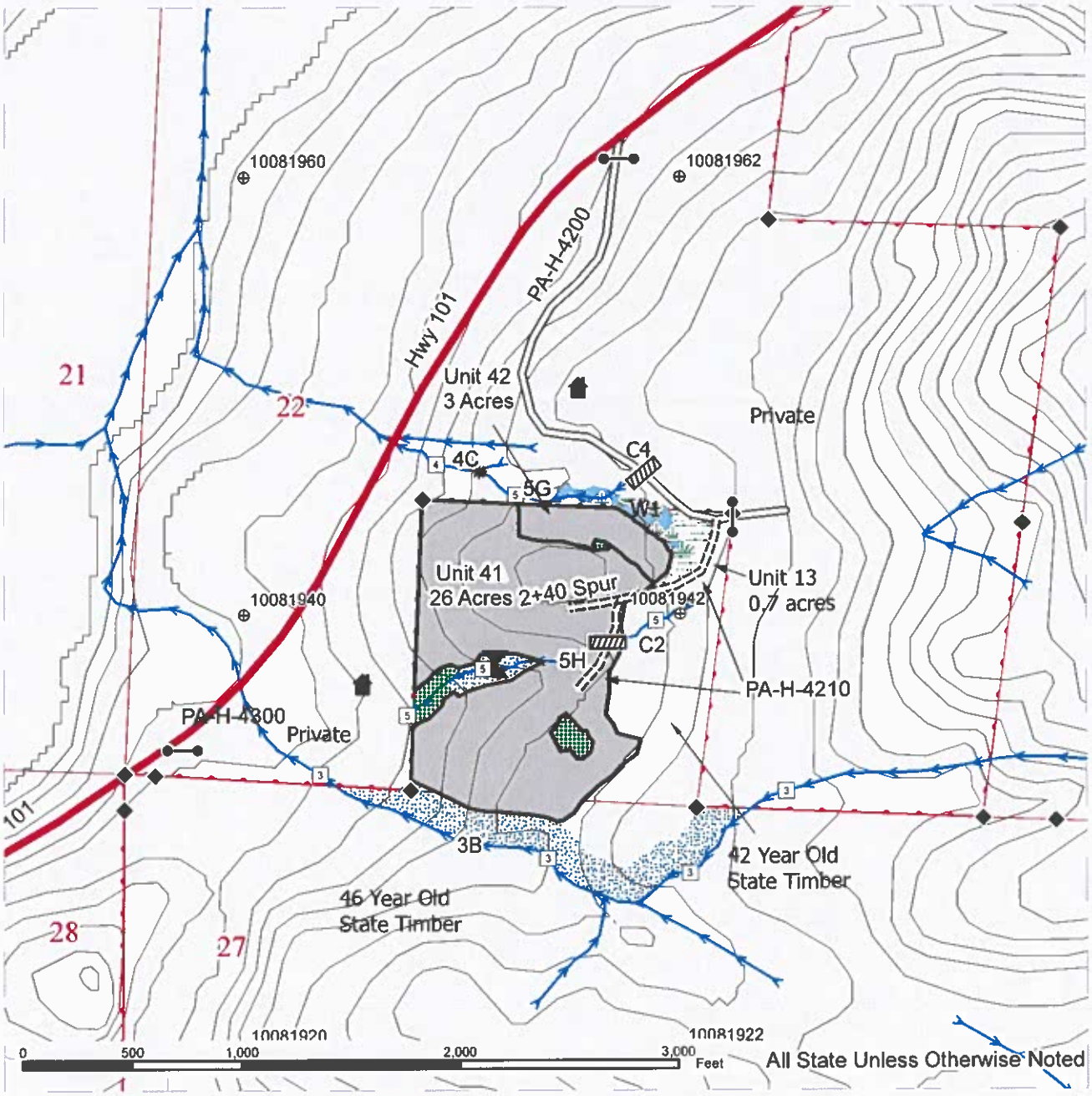
Modification Date: bnel490 6/4/2024

2618519

FOREST PRACTICES ACTIVITY MAP

SALE NAME: ALLEY CAT
APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
TOWNSHIP(S): T30R7W



Sale Area	Highway	Culvert
Leave Tree Area	Existing Roads	Gate
Wetlands - Non-forested	New Construction	Potential Inner Gorge
Wetland Mgt Zone	Streams	Rock Pit
Riparian Mgt Zone	Stream Type	Structure
Contours 40-foot	Stream Type Break	Waste Area
Survey Monument	Tics - 2000' Interval	Well Head

N

Prepared By: bsin490

Modification Date: bnel490 4/2/2024

2618519

FOREST PRACTICES ACTIVITY MAP

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APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
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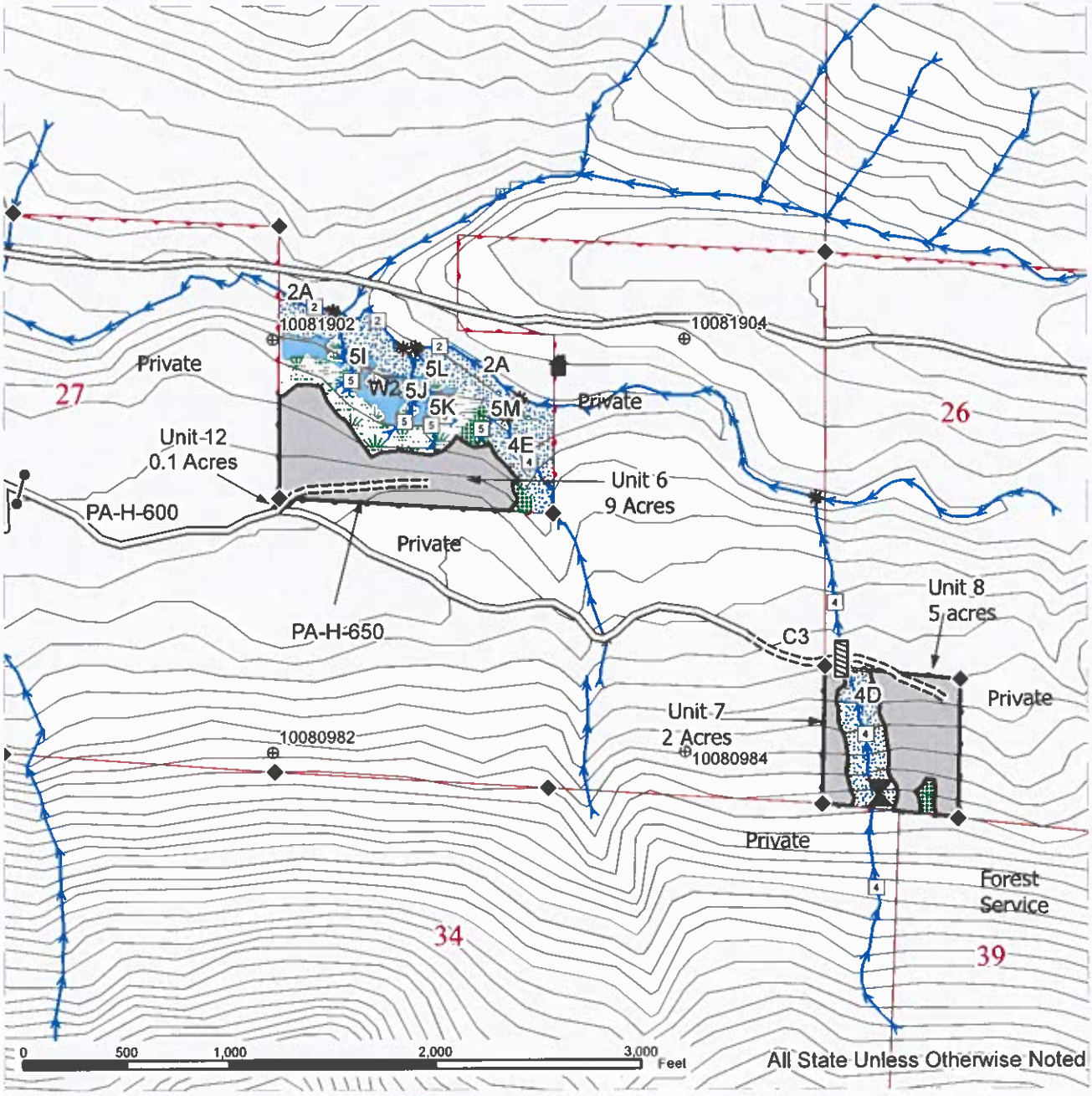


- Sale Area
- Leave Tree Area
- Wetlands - Non-forested
- Wetland Mgt Zone
- Riparian Mgt Zone
- Contours 40-foot
- Survey Monument
- Highway
- Existing Roads
- New Construction
- Streams
- Stream Type
- Stream Type Break
- Tics - 2000' Interval
- Culvert
- Gate
- Potential Inner Gorge
- Rock Pit
- Structure
- Waste Area
- Well Head

N

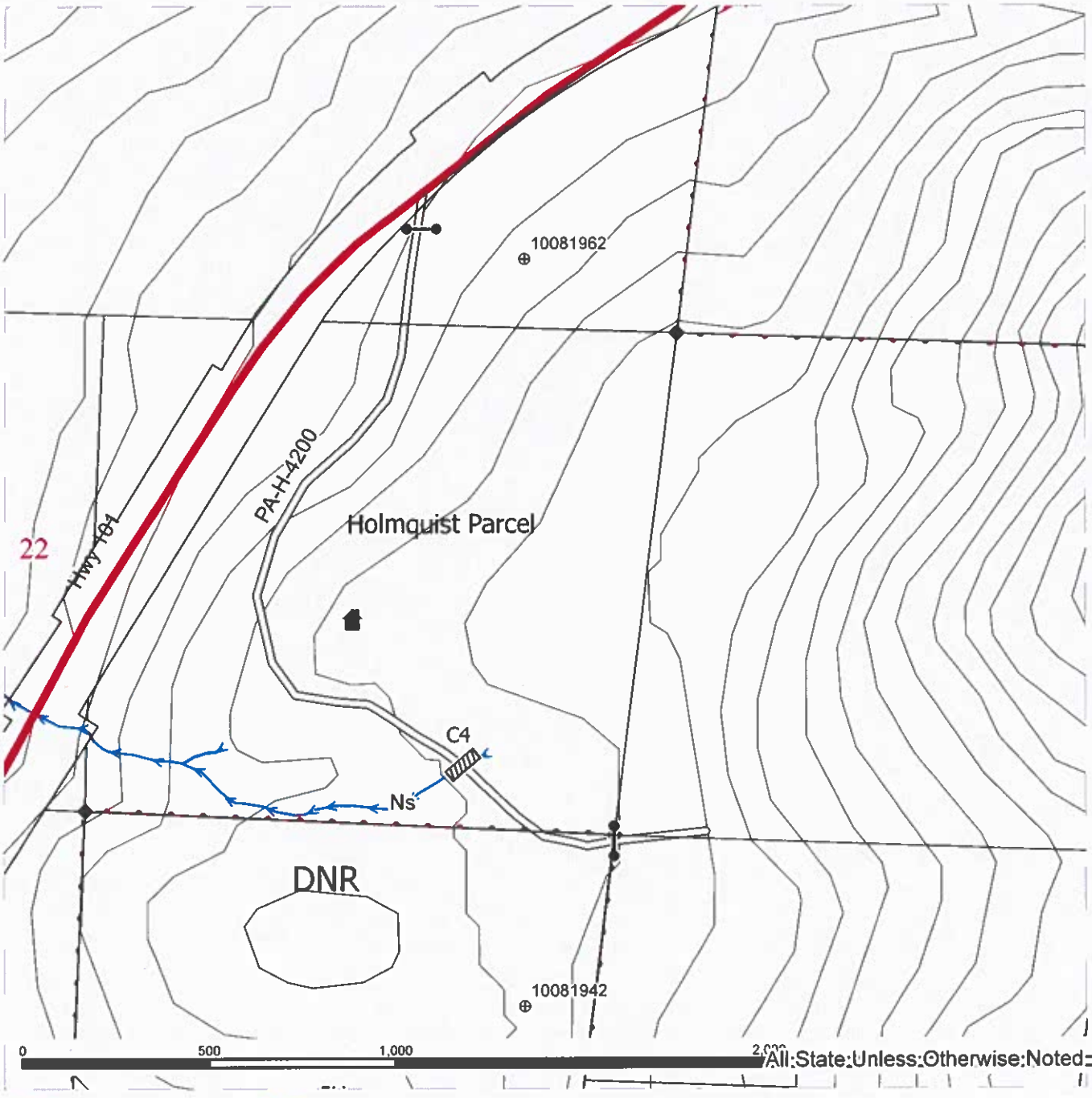
Prepared By: bsin490

Modification Date: bnel490 4/2/2024

FOREST PRACTICES ACTIVITY MAP

PROJECT NAME: ALLEY CAT
APPLICATION #: TBD by FP Staff

COUNTY(S): Clallam
TOWNSHIP(S): T30R7W



Prepared By: bsin490

Modification Date: bsin490 7/10/2024