



**Notice of Final Determination**  
**Hey Louie Timber Sale, App. No. 30-083212**  
**SEPA File No. 08-100705**  
**FP No. 2609588**

The Department of Natural Resources issued a [ ] Determination of Non-significance (DNS), [X] Mitigated Determination of Non-significance (MDNS), [ ] Modified DNS/MDNS on **October 7, 2008** for this proposal under the State Environmental Policy Act (SEPA) and WAC 197-11-340(2).

This threshold determination is hereby:

[ x ] Retained.

[ ] Modified. Modifications to this threshold determination include the following:

[ ] Withdrawn. This threshold determination has been withdrawn due to the following:

[ ] Delayed. A final threshold determination has been delayed due to the following:

Summary of Comments and Responses (if applicable):

Responsible Official: John X. Viada

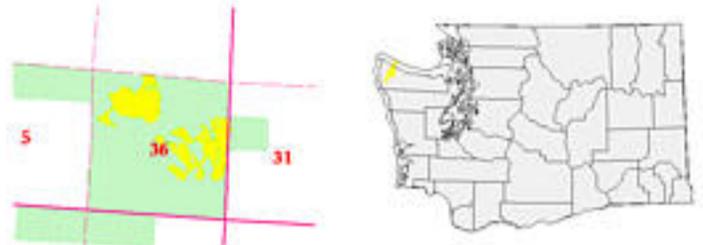
Position/title: Region Manager Phone: 360-374-6131

Address: Department of Natural Resources – Olympic Region  
411 Tillicum Lane  
Forks, WA 98331

Date: 10-24-08

Signature: John X. Viada

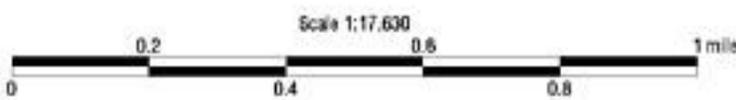
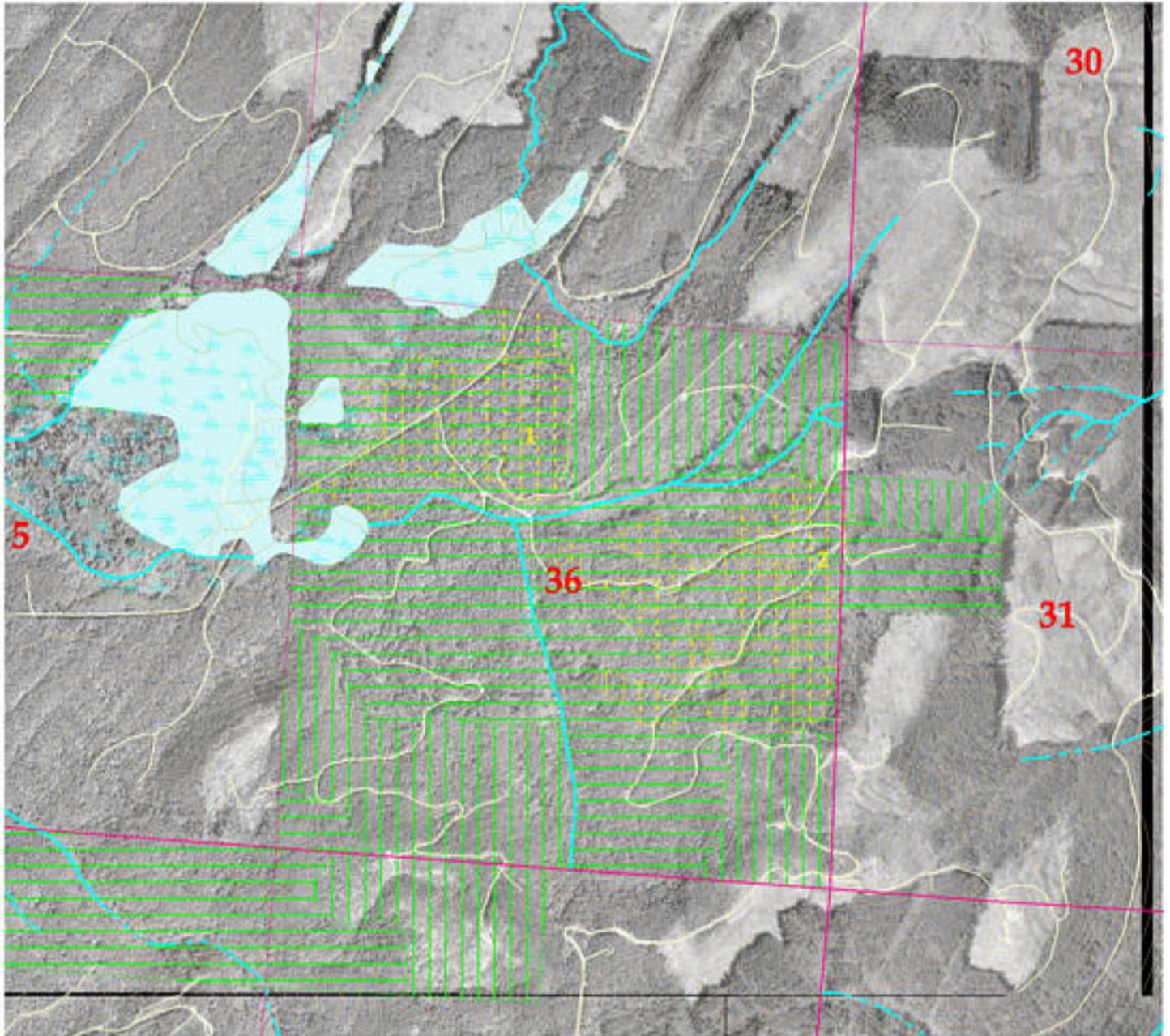
**Sale Name:** HEY LOUIE  
**Sale Date:** January 2009  
**Sale Unit(s):** All (2) Units  
**Sale Location:** T31R14W 36



Map created on October 06, 2008  
 NOTE: The target sale's orthophoto was acquired in the year: Unknown

This color map is produced by the Washington Department of Natural Resources (DNR), for discussion purposes only. If the copy you have is in black & white, some of the information may not read correctly. Wetland locations are from the national wetland inventory (NWI) data base. They are incomplete and may require field verification.

The source data for this map are stored on the DNR's Geographic Information System. Although the DNR makes every reasonable effort to keep such data current, it cannot and does not accept liability for any errors or omissions. Therefore, no warranty accompanies this material.



- Harvests**  
 All (2) Units HEY LOUIE Timber Sale  
 Sold Sales
- DNR Timber Age Group**  
 Unknown  
 0 - 25 Years Old  
 26 - 50 Years Old  
 51 - 75 Years Old  
 76+ Years Old

- Hydrography**  
 Open Water  
 Wetlands (NWI)  
 Type 1 Streams  
 Type 2 Streams  
 Type 3 Streams  
 Type 4 Streams  
 Type 5 Streams

- 303D Listed Water (2004) for Sedimentation, Temperature or TMDL  
 Roads  
 40-Ft. Contours  
 DNR-Managed Lands  
 DNR NAP's & NRCA's



Harvest Unit Adjacency Map

**STATE FOREST LAND  
ENVIRONMENTAL CHECKLIST**

**Purpose of Checklist:**

The State Environmental Policy Act (SEPA), chapter 43.21C RCW, requires all governmental agencies to consider the environmental impacts of a proposal before making decisions. An environmental impact statement (EIS) must be prepared for all proposals with probable significant adverse impacts on the quality of the environment. The purpose of this checklist is to provide information to help you and the agency identify impacts from your proposal (and to reduce or avoid impacts from the proposal, if it can be done) and to help the agency decide whether an EIS is required.

**Instructions for Applicants:**

This environmental checklist asks you to describe some basic information about your proposal. Governmental agencies use this checklist to determine whether the environmental impacts of your proposal are significant, requiring preparation of an EIS. Answer the questions briefly, with the most precise information known, or give the best description you can. *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> under "SEPA Center." 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.*

You must answer each question accurately and carefully, to the best of your knowledge. In most cases, you should be able to answer the questions from your own observations or project plans without the need to hire experts. If you really do not know the answer, or if a question does not apply to your proposal, write "do not know" or "does not apply." Complete answers to the questions now may avoid unnecessary delays later. *All of the questions are intended to address the complete proposal as described by your response to question A-11. The proposal acres in question A-11 may cover a larger area than the forest practice application acres, or the actual timber sale acres.*

Some questions ask about governmental regulations, such as zoning, shoreline, and landmark designations. Answer these questions if you can. If you have problems, the governmental agencies can assist you.

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.

**Use of checklist for nonproject proposals:**

Complete this checklist for nonproject proposals, even though questions may be answered "does not apply." IN ADDITION, complete the SUPPLEMENTAL SHEET FOR NON PROJECT ACTIONS (part D).

For nonproject actions, the references in the checklist to the words "project," "applicant," and "property or site" should be read as "proposal," "proposer" and "affected geographic area," respectively.

**A. BACKGROUND**

1. Name of proposed project, if applicable:

*Timber Sale Name:* **HEY LOUIE**

*Agreement #:* **30-083212**

2. Name of applicant:

**Department of Natural Resources**

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

**Mike Potter  
411 Tillicum Lane  
Forks, WA 98331  
360-374-6131**

4. Date checklist prepared: **08/20/2008**

5. Agency requesting checklist:

**Department of Natural Resources**

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

- a. *Auction Date:* **02/22/2009**  
b. *Planned contract end date (but may be extended):* **03/31/2011**  
c. *Phasing:* **Not Applicable**

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

Timber Sale

- a. *Site preparation:* **Landings may be burned upon completion of logging.**

- b. *Regeneration Method:*  
*TSU NO :1 HAND PLANT*      *01/01/2011*      *52 Acres*  
*TSU NO :2 HAND PLANT*      *01/01/2011*      *59 Acres*

- c. *Vegetation Management:* **Needs will be assessed 5-7 years after harvest.**

- d. *Thinning:* **Needs will be assessed 10-12 years after harvest.**

Roads: **Approximately 125 feet of new construction, 870 feet of reconstruction, and 14,836 feet of pre-haul maintenance is planned for this sale.**

Rock Pits and/or Sale: Hoko Ridge Pit

Other: Units may be opened for firewood salvage or other minor forest products.

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

- 303 (d) – listed water body in WAU:  temp  sediment  completed TMDL (total maximum daily load):
- Landscape plan:
- Watershed analysis: **Hoko**
- Interdisciplinary team (ID Team) report:
- Road design plan: **Hey Louie road plan. Dated 8/20/08**
- Wildlife report:
- Geotechnical report:
- Other specialist report(s):
- Memorandum of understanding (sportsmen’s groups, neighborhood associations, tribes, etc.):
- Rock pit plan: **Hoko Ridge Pit**
- Other: **Final Habitat Conservation Plan (September 1997); State Soil Survey; Interim Marbled Murrelet strategy; Forestry Handbook (August 1999). Sustainable Harvest Calculation (Sept 2004).**

All documents may be obtained at the Olympic Region Office during the SEPA comment period.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

**Not Applicable**

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

- HPA  Burning permit  Shoreline permit  Incidental take permit  FPA
- Other: **Board of Natural Resources Approval**

11. Give brief, complete description of our 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 specific information on project description.)

a. Complete proposal description:

The proposed timber sale Hey Louie is located approximately 15 miles southwest of Clallam Bay, Washington on the CZ-5900 road system. This proposed timber sale is located in the Olympic Experimental State Forest. The legal description of this proposal is T31N-R14W Sec. 36 W.M. Hey Louie is located within the Hoko WAU and the West Fork Dickey WAU. A watershed analysis has been completed for the Hoko WAU. Hey Louie, application #30-083212 is a two unit regeneration harvest of 45 year old timber encompassing approximately 158 acres, with an approximate sale volume of 3,642 mbf. Of the total acres assessed for potential harvest, approximately 44 acres have been left in riparian protection areas, and 111 acres will be regeneration harvested. Unit one of this proposal was commercially thinned approximately 13 years ago.

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

**Description Pre-harvest:**

Hey Louie, application #30-083212 is a two unit regeneration harvest of 45 year old conifer timber encompassing approximately 155 acres, with an approximate sale volume of 3,642 mbf. The average diameter found in this proposed sale is 17 inches. Of the total acres assessed for potential harvest, approximately 44 acres have been left in riparian protection areas, and 111 acres will be regeneration harvested. Unit one of this proposal was commercially thinned approximately 13 years ago.

**Type of Harvest:**

This sale will be harvested with shovel and cable logging methods. Ground based harvesting will be restricted to shovel due to deep soils in the area of this proposal, no dozers or other skidding equipment will be allowed.

**Overall unit objectives:**

Objectives of this proposal are to provide financial benefit to the Common School Forestland trust under the guidelines provided by Forest Practice rules, DNR’s Habitat Conservation Plan(HCP) and the Hoko, West Dickey Watershed Analysis. Specific objectives include riparian protection, green tree retention plan, protection of soils and unstable slopes and procedures pertaining to threatened and endangered species. Riparian protection measures were designed for all waters in and adjacent to this proposal in accordance with our OESF Riparian Strategy. The sale will have green tree retention both dispersed and aggregated throughout the units. Large structurally unique trees were targeted for retention as well as exposed wind firm trees along the windward edges of the stands. These marked trees and clumps will expedite the future development of a more diverse, multi layered stand in the future.

Contract language and equipment limitations will help reduce soil impacts. No road construction will be allowed between Nov. 15 and April 15 to minimize exposure to soil erosion and rutting during the wet winter and spring months. No rubber tired skidders or dozers will be allowed and harvest operations will be suspended during periods of wet weather.

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

| Type of Activity                  | How Many | Length (feet) (Estimated) | Acres (Estimated) | Fish Barrier Removals (#) |
|-----------------------------------|----------|---------------------------|-------------------|---------------------------|
| Construction                      |          | 125                       | 0.04              | 0                         |
| Reconstruction                    |          | 870                       |                   | 0                         |
| Abandonment                       |          | 0                         | 0                 | 0                         |
| Bridge Install/Replace            | 0        |                           |                   | 0                         |
| Culvert Install/Replace (fish)    | 0        |                           |                   | 0                         |
| Culvert Install/Replace (no fish) | 16       |                           |                   |                           |

15,436 feet of pre-haul maintenance is planned for this sale. Pre-haul maintenance consists of grading, shaping, brushing, and ditching the existing road prism.

12. Location of 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 timber sale map available at DNR region office, and/or color landscape/WAU map on the DNR website <http://www.dnr.wa.gov> under "SEPA Center.")

a. Legal description:

**T31N R14W S36**

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

**The proposed timber sale Hey Louie is located approximately 15 miles southwest of Clallam Bay, Washington on the CZ-5900 road system.**

c. Identify the watershed administrative unit (WAU), the WAU Sub-basin(s), and acres. (See also landscape/WAU map on DNR website <http://www.dnr.wa.gov> under "SEPA Center.")

| WAU Name  | WAU Acres | Proposal Acres |
|-----------|-----------|----------------|
| HOKO      | 62220     | 23             |
| WF DICKEY | 27140.4   | 89             |
|           |           |                |

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

This proposal is located within the Hoko and the West Fork Dickey WAU's. The West Fork Dickey WAU has mixed forestland ownership with the major landowners being private industrial landowners and the Department of Natural Resources. The DNR has approximately 3,155 acres of ownership within the West Fork Dickey WAU, which equates to approximately 12% of the total WAU acreage. Approximately 45 acres of these lands have seen regeneration harvests within the past five years. There are currently two planned State timber sales for 2009 in the West Fork Dickey WAU. Over the past 5 – 10 years private industrial forestlands scattered within the WAU have reached rotation age and are currently being harvested on an estimated rotation cycle of 40 – 50 years under the prescriptions of the watershed analysis and the forest practice laws.

The Hoko WAU has mixed forestland ownership with the major landowners being Private Industrial Landowners and the Department of Natural Resources. The DNR has approximately 11,199 acres of ownership within the West Fork Dickey WAU, which equates to approximately 24% of the total WAU acreage. Approximately 408 acres of these lands have seen regeneration harvests within the past five years. There are currently five planned State timber sales for 2009 in the Hoko WAU. Over the past 5 – 10 years private industrial forestlands scattered within the WAU have reached rotation age and are currently being harvested on an estimated rotation cycle of 40 – 50 years under the prescriptions of the watershed analysis and the forest practice laws.

| Hoko WAU                                 |       |          |
|--|-------|----------|
| Land Owner                               | Acres | % of WAU |
| DNR                                      | 11199 | 24       |
| Federal                                  | 330   | 1        |
| Tribal                                   | 0     | 0        |
| Other State (Non-DNR)                    | 942   | 2        |
| Other Land (Private & Other Public Land) | 33523 | 73       |

| West Fork Dickey WAU                     |       |          |
|--|-------|----------|
| Land Owner                               | Acres | % of WAU |
| DNR                                      | 3155  | 12       |
| Federal                                  | 0     | 0        |
| Tribal                                   | 0     | 0        |
| Other State (Non-DNR)                    | 0     | 0        |
| Other Land (Private & Other Public Land) | 23985 | 88       |

The DNR has an HCP agreement with the federal government concerning threatened and endangered species and their habitats, which requires the department to manage landscapes with the intent to preserve and enhance habitat used by fish and older forest dependent species. This agreement substantially helps the department to mitigate for any potential harmful cumulative effects related to its management activities. The HCP is designed to protect and promote fish and wildlife species and their habitats over a broad regional area. The applicable HCP strategies incorporated into this proposal are as follows:

- \* Retaining Riparian Management Zones (RMZ's) on Type 3 and 4 waters,
- \* Deferring harvest on unstable slopes,
- \* Retaining a minimum of 8 leave trees per acre dispersed and aggregated throughout the Proposal.
- \* Designing, constructing, and maintaining a road system to minimize potential adverse effects on the environment.
- Procedures pertaining to threatened and endangered species

Several measures have been taken to ensure that this proposal will not contribute to the potential for adverse environmental impacts. As per our Habitat Conservation Plan riparian management zones with interior and exterior buffers have been applied to all Type 3 streams. Interior core buffers are designed to protect the unstable portions of the stream banks, while exterior buffers help to protect the inner core from potential wind-throw. The Type 3 and 4 streams have been protected with estimated 10 -20 foot inner core buffers and 150 foot exterior buffers. The Type 5 streams have been protected with varying width buffers and clumped green tree retention. No equipment will be allowed to operate within 30 feet of any streams. There will be no harvest activities within any of the RMZ's associated with this proposal, which will protect water quality, stream bank integrity and soils. Furthermore, the RMZ's will develop old-forest characteristics that, in combination with other strategies, will help support old-forest dependant wildlife populations in the future.

The DNR mitigates for the potential of significant adverse environmental impacts to northern spotted owls through the implementation of the HCP strategy for the OESF which established a threshold habitat percentages of DNR managed lands at the scale of Landscape Planning Units (LPU's) and interim limits on rates of harvest for each LPU. Each LPU is managed to achieve and maintain at least 20% Old Forest Habitat and at least 40% of Old and Young Forest Habitat types taken together. 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. Forest Land Planning has been initiated but not implemented. This proposal is under 50 years of age and is not considered structural habitat according to the OESF NSO Habitat Model. It will not be subject to the acreage limits in the OESF's interim HCP implementation procedure for northern spotted owls

**B. ENVIRONMENTAL ELEMENTS**

**1. Earth**

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

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

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

The Hoko WAU is generally moderate terrain with an elevation range of 0' to 2655' with the average being 698'. The WAU is comprised of both state owned and large private industrial forestlands, with the industrial ownerships being the prevalent landowners. The lower elevations of the WAU along the Hoko River Valley sees a fair amount of rural residential uses as well as a minor amount of small agricultural uses. The average precipitation in the WAU is approximately 111". The major timber type in the WAU is Western hemlock with Douglas fir being second.

The West Fork Dickey WAU is generally moderate terrain with an elevation range of 41' to 1880' with the average being 380'. The WAU is comprised of both state owned and large private industrial forestlands, with the industrial ownerships being the prevalent landowners. The average precipitation in the WAU is approximately 96". The major timber type in the WAU is Western hemlock with Douglas fir being second.

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

This timber sale proposal is located at the lower elevations of the WAU's on hilly terrain. No slopes over 45% are found within the units. Western hemlock is the primary species found within the sale area, with Sitka spruce, Red alder and Douglas fir also present.

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

**45% on approximately 55% of the sale.**

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

| State Soil Survey # | Soil Texture or Soil Complex Name  | % Slope | Acres | Mass Wasting Potential | Erosion Potential |
|---------------------|------------------------------------|---------|-------|------------------------|-------------------|
| 8017                | SILT LOAM                          | 0-5     | 32    | INSIGNIFICANT          | LOW               |
| 5733                | SILT LOAM                          | 5-35    | 79    | LOW                    | LOW               |
| 5734                | OZETTE-ANDEPTIC UDORTHENTS-COMPLEX | 50-80   | 1     | No Data                | No Data           |
|                     |                                    |         |       |                        |                   |
|                     |                                    |         |       |                        |                   |

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

**None have been observed.**

1) *Surface indications:*

**None have been observed.**

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

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

**There is some evidence of natural slope failures in the steeper, higher areas of the WAU. These are generally associated with steep stream channels and headwalls. None of these areas are found within the immediate area of the proposal.**

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

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

*Associated management activity:*

**Slope failures associated with harvest activities have occurred on steep ground within the WAU. Most of these have been associated with harvest and past road construction practices on unstable slopes. No known failures associated with harvest activities are present in the immediate vicinity of this proposal**

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

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

**This proposal does not contain any terrain or features that would be considered unstable.**

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

**This proposal was designed to avoid operations on or near unstable slopes.**

**Harvest systems have been designed to limit ground based logging to slopes less than 35% and will not be permitted during periods of wet weather.**

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.  
*Approx. acreage new roads:0.04 Approx. acreage new landings:0.5 Fill source:Hoko Ridge Pit*
- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.  
**Yes. A small amount of incidental surface erosion could occur during the course of road construction and harvest activities. However, prudent road location, construction, and maintenance, as well as the mitigating measures outlined in question h. below will minimize and control any possible erosion.**
- g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)? *Approximate percent of proposal in permanent road running surface (includes gravel roads):*  
**Less than 1%**
- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:  
*(Include protection measures for minimizing compaction or rutting.)*  
**No road construction activities will take place between November 15 through April 15. In addition 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. Leave trees are scattered and clumped throughout the sale units. All timber is to be felled and yarded away from riparian management zones and riparian leave areas. Harvested areas will be reforested within one growing season of the expiration of the contract.**

**2. Air**

- a. What types of emissions to the air would result from the proposal (i.e., dust from truck traffic, rock mining, crushing or hauling, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.  
**Insignificant amounts of engine exhaust from logging equipment and dust from passage of log trucks. Logging slash, if burned, will be burned adhering to the State's smoke management plan.**
- b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.  
**No**
- c. Proposed measures to reduce or control emissions or other impacts to air, if any:  
**None.**

**3. Water**

- a. Surface:
  - 1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into. *(See timber sale map available at DNR region office, or forest practice application base maps.)*
    - a) *Downstream water bodies:*  
**Unit 1 has one Type 5 stream and two Type 3 streams associated with it. The unnamed Type 5 stream is a tributary to the Hoko river. The Type 3 stream, Haehule creek is a tributary to Dickey lake.**  
  
**Unit 2 has one Type 3 stream, eight Type 4 streams, and 16 Type 5 streams associated with it. All unnamed Type 4 and 5 streams are tributaries to Haehule creek, the Type 3 stream in unit 2.**
    - 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)  |
|---|------------|--------------------|---|
| Haehule Creek   | 3          | 1                  | Interior core 10' to 20' 150' wind buffer.  |
| Tributary to Haehule Creek                              | 4          | 8                  | Interior core 10' to 20' 50' wind buffer.   |
| Tributary to Haehule Creek                              | 5          | 16                 | Variable retention buffer averaging an estimated 10' to 15' and clumped retention. Also a 30' no equipment zone |
| Tributary to Hoko River                                 | 5          | 1                  | Variable retention buffer averaging an estimated 10' to 20' and clumped retention. Also a 30' no equipment zone |
| Tributary to Hoko River                                 | 3          | 1                  | Interior core 10' to 20' 150' wind buffer.  |

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

**As per our Habitat Conservation Plan riparian management zones with interior and exterior buffers have been applied to all Type 3 and 4 waters. The Type 3 streams have been protected with an interior core buffer ranging from an estimated 10-20 feet and an exterior buffer of 150 feet. The Type 4 streams have been tagged out with estimated 10-20 foot interior core and 50 foot wind buffers. The Type 5 streams have been tagged out with estimated 10-15 foot buffers or have retention trees clumped along them. No equipment will be allowed to operate within 30 feet of all streams. No harvest will take place within these riparian buffers.**

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

No  Yes (See RMZ/WMZ table above and timber sale map available at DNR region office.)

Description (include culverts): **See section 1.c. above.**

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

**None.**

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

No  Yes, description:

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

No  Yes, describe location:

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

No  Yes, type and volume:

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

**Yes, as described above there is evidence of mass wasting and surface erosion in the WAU, however the potential for eroded material to enter surface water is low due to excluding unstable slopes from the sale area and the protections described above in B 1-h.**

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

No  Yes, describe changes and possible causes:

**Yes, areas within these WAU's do show evidence of changes to stream channels. Some steep drainages in these WAU's show evidence of debris torrent events which have increased the dimensions of affected drainage channels, exposed native bedrock which now forms the floor along segments of channels, and decreased the overall amount of large woody debris in the streams. These events may be attributed to past road construction techniques, unstable slopes, or significant amounts of precipitation in short time periods.**

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

No  Yes, explain:

**This proposal will have minimal effect on water quality due to sale design and protection measures as described throughout this document.**

10) What are the approximate road miles per square mile in the WAU and sub-basin(s)?

**The West Fork Dickey WAU has 5.2 miles of road per square mile. The Hoko WAU has 5.7 miles of road per square mile.**

Are you aware of areas where forest roads or road ditches intercept sub-surface flow and deliver surface water to streams, rather than back to the forest floor?

No  Yes, describe:

**Some roads within the WAU intercept sub-surface flow and deliver it to streams. In recent years an emphasis has been placed on using more cross-drain culverts both on new road construction and on existing road reconstruction. This has resulted in more ditch water being diverted back to the forest floor.**

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

No  Yes, approximate percent of WAU in significant ROS zone.

Approximate percent of sub-basin(s):

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

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

No  Yes, describe observations:

**As described above, some of the larger stream banks can erode during periods of high water and steep headwall areas can fail during rain-on-snow events. The mass wasting described in B.1.d.2. above occurs during peak flow events and can result in accelerated sediment aggradations. Lack of LWD can contribute to stream channelization during peak flow events.**

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

**This proposal should not measurably change the timing, duration, or amount of water in a peak flow event. The harvest prescription, design, unit size, and location (not in the Rain-on-Snow Zone), will minimize this proposal's potential contribution to peak flows.**

- 15) *Is there water resource (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or downslope of the proposed activity that could be affected by changes in surface water amounts, quality, or movements as a result of this proposal?*  
No Yes, possible impacts:
- 16) *Based on your answers to questions B-3-a-10 through B-3-a-15 above, note any protection measures addressing possible peak flow/flooding impacts.*  
**Maintaining large RMZ's on streams that maintain bank stability, hydrologic function and provide recruitment of LWD. Recent increases in the number and spacing of culverts to divert water to the forest floor. See B.1.h, B.3.a.1.c and A.13 for additional protection measures.**

b. Ground Water:

- 1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.  
**No**
- 2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.  
**None.**
- 3) *Is there a water resource use (public, domestic, agricultural, hatchery, etc.), or area of slope instability, downstream or down slope of the proposed activity that could be affected by changes in groundwater amounts, timing, or movements as a result this proposal?*  
No Yes, describe:
- a) *Note protection measures, if any.*  
**None.**

c. Water Runoff (including storm water):

- 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.  
**Storm water runoff will be collected by road ditches and diverted through cross drain culverts onto stable forest floor.**
- 2) Could waste materials enter ground or surface waters? If so, generally describe. **No**
- a) *Note protection measures, if any.*  
**None**

- d. Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:  
*(See surface water, ground water, and water runoff sections above, questions B-3-a-1-c, B-3-a-16, B-3-b-3-a, and B-3-c-2-a.)*  
**All streams have had buffers applied. Roads have ditches, ditch outs, and cross drains to divert water to stable forest floor material, and intercepted groundwater will be directed and discharged along its original flow path.**

4. Plants

a. Check or circle types of vegetation found on the site:

- deciduous tree: alder  
evergreen tree: Douglas fir, Pacific silver fir,  
western hemlock, Sitka spruce,  
red cedar  
shrubs: huckleberry, salmonberry  
wet soil plants: skunk cabbage, devil's club

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

- 1) *Describe the species, age, and structural diversity of the timber types immediately adjacent to the removal area. (See landscape/WAU and adjacency maps on the DNR website at: <http://www.dnr.wa.gov> under "SEPA Center.")*  
**Unit 1 is bordered to the North by private 2 year reproduction and RMZ. Unit 1 is bordered to the East by 15 year old DNR timber, to the South by RMZ, and to the West by similar DNR timber.**  
  
**Unit 2 is bordered to the North by RMZ, to the East by RMZ, to the South by DNR 10 year reproduction and to the West by RMZ.**
- 2) *Retention tree plan:*  
**Our retention tree plan which is leaving eight wildlife and legacy trees per acre and the riparian buffers left on all streams adjacent to the proposal will enhance diversity on the site. The harvest units will be reforested with a mixture of conifer species including Western Hemlock, Douglas fir, Sitka Spruce and Red Cedar, all of which are native species to this site.**

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

| TSU Number                    | FMU_ID | Common Name | Federal Listing Status | WA State Listing Status |
|-------------------------------|--------|-------------|------------------------|-------------------------|
| None Found in Database Search |        |             |                        |                         |

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:  
**Our retention tree plan which is leaving eight wildlife and legacy trees per acre and the riparian buffers left on all streams adjacent to the proposal will enhance diversity on the site. The harvest units will be reforested with a mixture of conifer species including Western Hemlock, Douglas fir, Sitka Spruce and Red Cedar, all of which are native species to this site.**

**5. Animal**

- a. Circle or check any birds animals or unique habitats which have been observed on or near the site or are known to be on or near the site:

birds: hawk, songbirds  
 mammals: deer, bear, elk  
 fish: salmon, trout  
 unique habitats: **None.**

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

| TSU Number | FMU ID | Common Name      | Federal Listing Status | WA State Listing Status |
|------------|--------|------------------|------------------------|-------------------------|
| 1          | 16698  | WINTER STEELHEAD | NONE                   | HEALTHY                 |
|            |        |                  |                        |                         |

- c. Is the site part of a migration route? If so, explain.  
Pacific flyway Other migration route: Explain if any boxes checked:  
**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:  
**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. Forest Land Planning has been initiated but not implemented. This proposal is under 50 years of age and is not considered structural habitat according to the OESF NSO Habitat Model. It will not be subject to the acreage limits in the OESF's interim HCP implementation procedure for northern spotted owls**

**The sale area was determined to be non murrelet habitat by the OESF marbled murrelet habitat assessment.**

- 1) Note existing or proposed protection measures, if any, for the complete proposal described in question A-11.  
 Species /Habitat: **None** Protection Measures: **None**  
 Species /Habitat: **None** Protection Measures: **None**  
 Species /Habitat: **None** Protection Measures: **None**

**6. Energy and Natural Resources**

- a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.  
**Does not apply.**
- b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.  
**Does not apply.**
- c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:  
**Does not apply.**

**7. Environmental Health**

- a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.
- 1) Describe special emergency services that might be required.  
**Fire suppression, hazardous waste cleanup.**
  - 2) Proposed measures to reduce or control environmental health hazards, if any:  
**The timber sale contract requires the purchaser to minimize risk of fire and does not allow for the disposal of any kind of waste on any State lands.**
- 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 long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.  
**Noise from heavy equipment and log truck traffic while the sale is active.**
  - 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? (*Site includes the complete proposal, e.g. rock pits and access roads.*)  
**Forest Land**
- b. Has the site been used for agriculture? If so, describe.  
**No**
- c. Describe any structures on the site.  
**None**
- d. Will any structures be demolished? If so, what?  
**No**
- e. What is the current zoning classification of the site?  
**Forest Land**
- f. What is the current comprehensive plan designation of the site?  
**Commercial forest use.**
- g. If applicable, what is the current shoreline master program designation of the site?  
**Does not apply.**
- h. Has any part of the site been classified as an “environmentally sensitive” area? 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?  
**Does not apply.**
- 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:  
**The design of this project is consistent with current comprehensive plans and procedures pertaining to DNR’s Habitat Conservation Plan, the state Forest Practices Act , and the East West Dickey Watershed Analysis.**

**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:  
**Does not apply.**

**10. Aesthetics**

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principle exterior building material(s) proposed?  
**Does not apply.**
- b. What views in the immediate vicinity would be altered or obstructed?
  - 1) *Is this proposal visible from a residential area, town, city, developed recreation site, or a scenic vista?*  
No Yes, viewing location:
  - 2) *Is this proposal visible from a major transportation or designated scenic corridor (county road, state or interstate highway, US route, river, or Columbia Gorge SMA)?*  
No Yes, scenic corridor name:
  - 3) *How will this proposal affect any views described in 1) or 2) above?*  
**Does not apply.**
- c. Proposed measures to reduce or control aesthetic impacts, if any:  
**Retention trees and riparian leave areas have been left throughout the sale area. In addition the site will be reforested with conifer seedlings upon completion of harvest.**

**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?  
**Does not apply.**
- 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 hunting, berry picking, sightseeing, etc.**
- b. Would the proposed project displace any existing recreational uses? If so, describe:  
**No**
- 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 places or objects listed on, or proposed for national, state, or local preservation registers known to be on or next to the site? If so, generally describe.  
**No**
- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.  
**None**
- c. Proposed measures to reduce or control impacts, if any:  
*(Include all meetings or consultations with tribes, archaeologists, anthropologists or other authorities.)*  
**Does not apply.**

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.  
**The Hoko Ozette county road will be the access to the CZ-5900 road system.**
  - 1) *Is it likely that this proposal will contribute to an existing safety, noise, dust, maintenance, or other transportation impact problem(s)?*  
**No**
- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?  
**No**
- c. How many parking spaces would the completed project have? How many would the project eliminate?  
**None**
- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).  
**Yes, this proposal will require 14,846' of pre-haul maintenance which includes shaping, brushing and ditching the existing road prism. In addition 125' of new construction, and 870' of re-construction will be performed.**
  - 1) *How does this proposal impact the overall transportation system/circulation in the surrounding area, if at all?*  
**This proposal is located in an area that sees heavy use from timber related uses and traffic and will have no additional impacts to the transportation system.**
- e. Will the project 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? If known, indicate when peak volumes would occur.  
**None**
- g. Proposed measures to reduce or control transportation impacts, if any:  
**New roads will be constructed in compliance with HCP and Forest Practice requirements and will divert storm water onto stable forest floor. To avoid erosion and impacts to water quality, soils exposed during culvert installation will be grass seeded and covered with hay. To protect soil productivity and reduce erosion, ground based operations will be suspended during periods of wet weather or wet soil conditions when rutting of skid or shovel roads begins.**

15. Public Services

- a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.  
**Does not apply.**
- b. Proposed measures to reduce or control direct impacts on public services, if any.  
**Does not apply.**

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.  
**Does not apply.**
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.  
**Does not apply.**

C. SIGNATURE





**MEMORANDUM**

October 7, 2008

File No. 08-100705

TO: Clallam County, Planning Director  
Environmental Coordinator, DOE  
Natural Heritage Program, DNR  
Forest Supervisor, US Dept of AG  
Makah Indian Tribe  
Lower Elwha Indian Tribe  
Port Gamble Sklallam Tribe  
Env. Coordinator, Parks & Rec.  
Sauk-Suiattle & Swinomish Tribes  
Jean Tackett, DNR

Clallam County Engineer  
D. Dafoe / C. Byrnes / G. Bell, DFW  
Dept. of Labor & Industries  
Archaeological & Historical Preservation  
Jamestown Sklallam Indian Tribe  
Quileute Tribal Council  
Hoh Indian Tribe  
Forest Tax Division, DOR  
Marcy Golde

FROM: Elizabeth L O'Neal, SEPA Center

SUBJECT: **SEPA LEAD AGENCY & MITIGATED DETERMINATION OF NONSIGNIFICANCE**

This is to advise you that pursuant to WAC 197-11-900 (922 through 948), the Department of Natural Resources has determined that it is Lead Agency for the following:

**Hey Louie Timber Sale #83212 and Forest Practice Application #2609588 is a two unit timber harvest proposal located in the Olympic Experimental State Forest. The estimated timber volume removal for this proposal is 3,642 mbf, encompassing approximately 111 acres of harvest. Approximately 125 feet of new optional road construction, 870 feet of required reconstruction and 14,846 feet of pre-haul maintenance is planned for this sale. Located in Section 36, Township 31 North, Range 14 West, W.M., Clallam County.**

Information about this proposal including the Threshold Determination, SEPA Checklist and Forest Practice Application can be viewed on DNR's website at:

<http://www.dnr.wa.gov/ResearchScience/sepa/Pages/Home.aspx>

Pursuant to WAC 332-41-504, this proposal was filed in the department's SEPA Center at the Natural Resources Building, 1111 Washington Street SE, P.O. Box 47015, Olympia, Washington, on **October 7, 2008**. We will consider comments on this proposed MDNS received by 4:30 p.m. on **October 21, 2008**. Comments should be submitted to the SEPA Center at, [sepacenter@dnr.wa.gov](mailto:sepacenter@dnr.wa.gov) or P.O. Box 47015, Olympia, Washington 98504-7015 for distribution to the responsible official. Please include the file number listed above on all comments.



## MITIGATED DETERMINATION OF NONSIGNIFICANCE

**Description of proposal:** "Hey Louie" timber sale Application #30-083212, FPA#26 09588 is a two unit timber harvest proposal located in the Olympic Experimental State Forest (OESF). The estimated timber volume removal for this proposal is 3,642mbf, encompassing approximately 111 acres of harvest. Approximately 125 feet of new optional road construction, 870 feet of required reconstruction and 14,846 feet of pre-haul maintenance is planned for this sale.

**Description of mitigation:** The following Habitat Conservation Plan (HCP) procedures apply:

Northern Spotted Owl: This proposal is located in non structural owl habitat and is under 50 years of age and will not be subject to the acreage limits. PR-14-004-120

Marbled Murrelet: The sale area was determined to be non- murrelet habitat by the OESF interim marbled murrelet strategy.

Slope Stability: There are no unstable slopes associated with this proposal.

Riparian and/or Wetland Management Zones (RMZ/WMZ):

This proposal has two Type 3 streams, eight Type 4 streams and seventeen Type 5 streams associated with it. The Type 3 streams have been protected with a 10' to 20' estimated interior core buffers and 150' wind buffers. The Type 4 streams have been protected with 10 – 20 foot estimated interior core buffers and 50 foot wind buffers. The Type 5 waters have been protected with varying width buffers from 10 -20 feet in width.

Retention Trees: Retaining a minimum of eight trees per acre in the proposal area provides legacy elements for recruitment of future snags, coarse woody debris, multi-layered stands and large diameter trees.

Roads: Approximately 125 feet of new optional road construction, 870 feet of reconstruction and 15,436 feet of pre-haul maintenance is planned for this sale. Road construction activities will be restricted from November 15 – April 15 and contract requirements will restrict operations during wet weather when rutting and soil displacement may occur. Rock for these roads will come from the DNR's Hoko Ridge pit, or an approved commercial source.

**Proponent:** Department of Natural Resources – Olympic Region

**Location of proposal, including street address, if any:** This proposed timber sale is located approximately 15 miles southwest of Clallam Bay, Washington off of the CZ-5900 road system. It is located in Sec. 36 Twp. 31N, Rge. 14 W.

**Lead agency:** Department of Natural Resources

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other

information on file with the lead agency. This information is available to the public on request.

There is no comment period for this Mitigated DNS.

This MDNS is issued under 197-11-340(2); the lead agency will not act on this proposal for 14 days from October 7, 2008. Comments must be submitted by October 21, 2008

**Responsible official:** John X. Viada  
**Position/title:** Olympic Region – Region Manager  
**Phone:** 360-374-6131  
**Address:** 411 Tillicum Lane  
Forks, Washington 98331-9797

*OK*  
*EV*  
Date: 10-1-08

Signature: John X. Viada

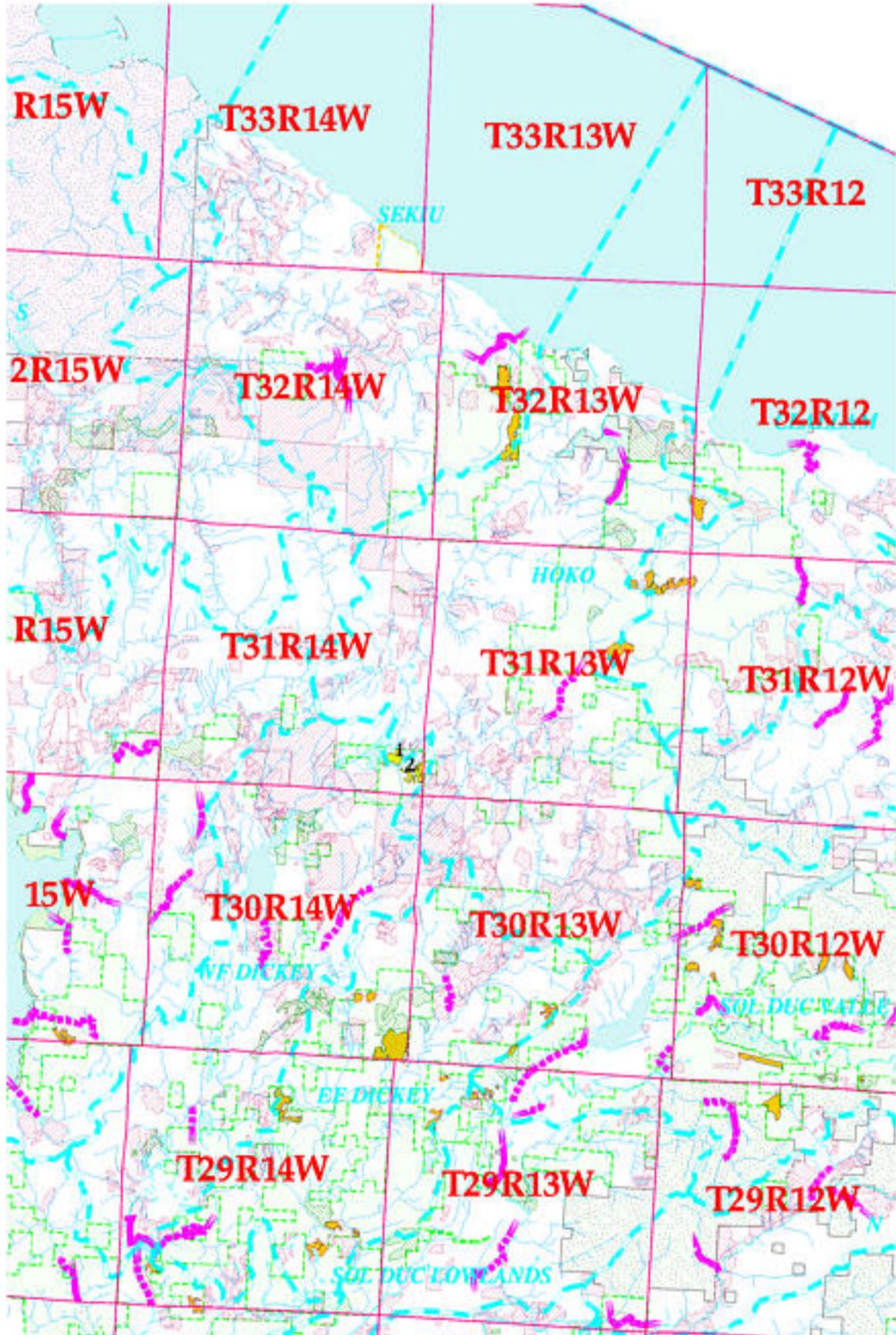
There is no agency SEPA appeal.  
11/09/00

**Sale Name:** HEY LOUIE  
**Sale Date:** January 2009  
**Sale Location:** T31R14W 36  
**WAU:** Multiple WAU's  
**WAU Acres:** 89360

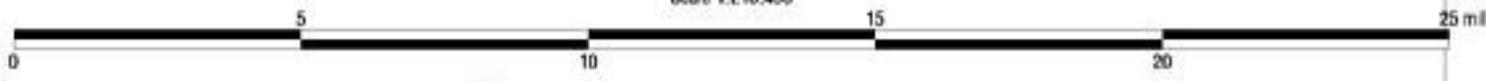


This color map is produced by the Washington Department of Natural Resources (DNR), for discussion purposes only. If the copy you have is in black & white, some of the information may not read correctly. Wetland locations are from the National Wetland Inventory (NWI) data base. They are incomplete and may require field verification.

The source data for this map are stored on the DNR's Geographic Information System. Although the DNR makes every reasonable effort to keep such data current, it cannot and does not accept liability for any errors or omissions. Therefore, no warranty accompanies this material. REFER TO SEPA CHECKLIST FOR ADDITIONAL DETAIL.



Scale 1:210,456



- |   |                         |                       |   |
|---|-------------------------|-----------------------|---|
| DNR Harvester<br>HEY LOUIE Timber Sale                | DNR-Managed Land        | Bureau of Reclamation | WAU Boundary  |
| Sold Sales  | Major Public Lands      | BLM                   | Stream Types 1-4  |
| Approved Forest Practices                             | Dept. of Wildlife       | Dept. of Energy       | 303D Listed Water (2004) for Sedimentation, Temperature or TMDL |
| Even-aged   | State Parks & Rec.      | Dept. of Defense      | NAP's & NRCA's  |
| Uneven-aged   | Other State             | Other Federal         | Water Bodies  |
| (Approvals represent data from last seven years only) | National Forest         | Tribal Lands          |   |
|   | USFS Wilderness         | County Lands          |   |
|   | Nat. Park/Rec./Monument | Municipal             |   |
|   | US Fish & Wildlife      |                       |   |