



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Forest Practices Application/Notification
Office Checklist Page 1
Northwest Region

FPA/N #: 2814990
 Received Date: 1-29-16
 WDFW Concurrence Due Date: —
 WDFW Concurrence Review Completed: —
 Comments Due Date: 2-12-16
 Decision Due Date: 2-28-16
 FP Forester: SKY 30
 Shutdown Zone: 658
 RMAP #: R2800010L

FPA/N CLASSIFICATION: [] II III [] IVG [] IVS RMAP Exempt: [] 80/20 [] No Forest Roads [] Ag [] LLO
 Landowner Name: DNR Project Name: Lotta Strands
 WRIA: Snohomish WAU: Sultan River
 WRIA: _____ WAU: Olney Crk.
 Legal Description: 35-29-9E; 1, 2, 3, 10, 11, 12-28-8E
 Activity Type: Harvest 161.3 ac Spray _____ ac Stream Crossing(s) 5
 Road Construction 6019 ft Road Abandonment 8555 ft Rock Pit .3 ac

ALTERNATIVE PRESCRIPTIONS
 Alternate Plan Habitat Conservation Plan
 Ten-Year Forest Management Plan Landowner Option Plan for Northern Spotted Owl
 Columbia River Gorge National Scenic Area Cooperative Habitat Enhancement Agreement
 Watershed Analysis: _____

RESOURCE REVIEW
 Unstable Slopes (Risk: Highway, Water; _____) Bull Trout Overlay
 Soils Map (Highly Erodible & Very Unstable) HCP Bull Trout Population
 SLPSTAB Bald Eagle nest or roost within 660 feet
 Landslide Hazard Zonation Group A or B Water Supply (TRAX code DM or MU)
 Landslide Polygon Hatchery (TRAX code S)(Name: _____)
 Rain-on-Snow and Outside Approved WA Even-Aged Harvest greater than 120 Acres
 Hydric Soils Ground-based Equipment on Slopes greater than 40%
 Wetland [] Forested, A, [] B Road Construction on Slopes greater than 65%
 In WMZ of [] A, or [] B Wetland Saltwater Islands (Name: _____)
 In RMZ/ELZ of Type [] S, F, [] N water
 Water Verification

ASSOCIATED NON-SCANNED DOCUMENTS – On file with the FPA/N at the region office.
 SEPA Checklist/Documents Large Landowner Road Maintenance and Abandonment Plan

ASSOCIATED SCANNED DOCUMENTS
 Conversion Option Harvest Plan Hardwood Conversion Form
 FPHP Plans & Specifications Wetland Mitigation Plan
 Qualified Expert Report Water Protocol Surveys [] Modification
 Natural Regeneration Plan Form# _____
 Shoreline Permit Water Classification Worksheet
 Marbled Murrelet Form Shade Documentation (Stream Shade Assessment Worksheet)
 FPBM Appendix(s) _____ Watershed Analysis Worksheet
 Small Landowner RMAP Checklist DFC Printout
 CMZ Assessment Form Slope Stability Informational Form

EARR Tax Credit Yes [] No Form completed by L.U.
ADDITIONAL COMMENTS:



WASHINGTON STATE DEPARTMENT OF
Natural Resources

**Forest Practices Application/Notification
Western Washington**

For DNR Region Office Use Only	
FPA/N #:	2814990
Region:	NW
Received Date:	1-29-2016

Lotta Strands #093059

PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION. TYPE OR PRINT IN INK.

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER Department of Natural Resources	Legal Name of TIMBER OWNER (if different than Landowner)	Legal Name of OPERATOR (if different than Landowner)
Mailing Address: 919 N. Township St.	Mailing Address:	Mailing Address:
City, State, Zip Sedro-Woolley, WA 98284	City, State, Zip	City, State, Zip
Phone (360) 856-3500	Phone ()	Phone ()
Email:	Email:	Email:

2. Contact Person

Contact Person: Laurie Bergvall	Phone (360) 856-3500 Email: laurie.bergvall@dnr.wa.gov
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NOTE: You are required to verify Type Np, and Ns water types within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use the Additional Information section, additional pages, the Water Type Classification Worksheet, and/or a Water Type Modification form to explain how you verified water types. See Water Typing Requirements in the instructions. **RECEIVED NW REGION**

3. Landownership information: See instructions

JAN 29 2016

a. No Yes Are you a small forest landowner per RCW 76.09.450?

If Yes, go to b.

b. No Yes Is your entire proposed harvest area on a single contiguous ownership consisting of one or more parcel

4. If you are harvesting timber, enter the Forest Tax Reporting Account Number of the Timber Owner:

For tax reporting information or to receive a tax number, call the Department of Revenue at 1-800-548-8829.

5. Are you substituting prescriptions from an approved state or federal conservation agreement or watershed analysis? HCP, See Attached

No Yes Write "HCP" or "Using Prescriptions" in tables that apply. Attach or reference on file prescriptions and/or crosswalks.

6. What is the legal description of your forest practice?

Section	Township	Range	E/W	Tax Parcel Number	County
1,2,3	28	08	E	-----	Snohomish
10,11,12	28	08	E	-----	Snohomish
35	29	08	E	-----	Snohomish

7. When are you planning to begin work on the proposed activity? : In 6+ months

8. Is the taxpayer eligible for the EARR Tax Credit?

No Yes

9. Have you reviewed this forest practices activity area to determine whether it may involve historic sites and/or Native American cultural resources? Read the instructions before answering this question.

No Yes See FPA Narrative

10. Do you have a DNR approved Road Maintenance and Abandonment Plan (RMAP)?

a. No Yes List the RMAP number: R2800010L

If no, go to b.

b. No Yes Is a Checklist RMAP required? (see instructions)

11. Are there potentially unstable slopes or landforms within the boundaries of your forest practices activity area?

No Yes – attach geotechnical report and "Slope Stability Informational Form." If applicable, attach the SEPA checklist, HCP or Watershed Analysis prescriptions.

12. Are there potentially unstable slopes or landforms adjacent to your forest practices activity area?

No Yes – complete and attach the "Slope Stability Informational Form." If applicable, attach geotechnical report, HCP or Watershed Analysis prescriptions.

13. Is this forest practice application/notification: (Answer every question)

a. No Yes Within city limits or inside an urban growth area?

(IF YES SEE INSTRUCTIONS FOR ADDITIONAL REQUIRED DOCUMENTS.)

b. No Yes For road work that is included in an approved Road Maintenance and Abandonment Plan (RMAP)?

c. No Yes Within a public park? If Yes, include SEPA Environmental Checklist or SEPA Determination - except for harvesting/salvaging less than 5,000 board feet within a developed public park.

d. No Yes Within 500 feet of a public park? Park name: Snohomish County Parks Property

e. No Yes In an approved Conversion Option Harvest Plan (COHP) from the local government? If yes, include a copy. This only applies to proposals within urban growth areas.

f. No Yes Within 200' of the Ordinary High Water Mark (OHWM) or floodway of Type S water? If yes, check with the county or city to determine whether a substantial development permit is required under the local shorelines master plan.

- g. No Yes A request for a multi-year permit? If yes, length requested: 4 years or 5 years. Not everyone qualifies for a multi-year permit. See instructions for details.
- h. No Yes An Alternate Plan? If yes, include a copy.
- i. No Yes Within 50 miles of saltwater and do you own more than 500 acres of forest land in Washington State? If Yes - include the "Marbled Murrelet Form" or attach/reference HCP prescriptions.
- j. No Yes In or directly adjacent to a potential Channel Migration Zone (CMZ)? If Yes – include the "CMZ Assessment Form." Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

***** **If not working in or over typed waters, skip to number 18** *****

Prior to answering number 14-17 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5 (BM 5).

14. Are you proposing any of the following projects NOT permitted by current HPAs from WDFW?

- a. No Yes Installing, replacing or repairing a culvert at or below the bankfull width of Type S or F Water(s) that exceeds a five percent gradient?
- b. No Yes Constructing, replacing, or repairing a bridge at or below the bankfull width of unconfined streams in Type S or F water(s)?
- c. No Yes Placing fill material within the 100-year flood level of unconfined streams in Type S or F water(s)?

15. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F water? No Yes

16. If installing, replacing, removing or maintaining structures in or over any typed water, complete the table below. Type S and F waters require detailed plan information. Provide plan details in number 31 or attach plan to the FPA/N. Provide crossing locations and identifiers on your Activity Map. (A detailed plan with profiles may also be required for more complex hydraulic projects in Type N Waters per WAC 222-24-042(2)).

Crossing Identifier (letter and/or number)	Water Type (S, F, Np, Ns)	*Existing HPA Number (if applicable)	HPA Expiration Date (if applicable)	Planned Activity (install, replace, remove, temporary, structure maintenance)	Structure (culvert, bridge, ford**, punchoon, arch, other)	Proposed Size (dimensions of structure)	Culvert Design Method (No-slope, Stream-sim, Hydraulic, Other) (F and S only)	Channel Bed Width (ft) (F and S only)	Stream Gradient (%) (F and S only)	RMAP Project (Y or N)	FFPP Project (Y or N)
		See FPA Narrative									

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see "Background for the state's Incidental Take Permits for certain endangered and threatened fish species" following number 24 of the FPA/N Instructions.

17. If conducting any of the following activities in or over typed water, complete the table below. Some activities will require identifiers on your Activity map and/or more information in number 31, Additional Information. See instructions.

*Activity	Type S Water	Type F Water	Type Np Water	Type Ns Water
Equipment Crossing**				X
Suspending Cables		X	X	X
Cable Yarding		X	X	X
LWD Placement/Removal				
Beaver Dam Removal				
Felling and Bucking		X	X	X
Other (describe in number 31)				

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see "Background for the state's Incidental Take Permits for certain endangered and threatened fish species" following number 24 of the FPA/N Instructions.

18. If constructing or abandoning forest roads complete the table below. Show the road locations and identifiers on your Activity Map. Include abandonment plans for temporary roads and abandonment projects.

Road Identifier (name, number)	Road Construction		Road Abandonment	
	Length (feet)	Steepest Side-slope (%)	Length (feet)	Abandonment Date
See FPA Narrative				

19. If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on your Activity Map.

Spoil Area Identifier (letter, number)	Amount of Spoils Deposited (cubic yards)	Rock Pit Identifier (name, number or letter)	Acres of New Rock Pit Developed	Acres of Existing Rock Pit Expanded
		See FPA Narrative		

20. If operating in or within 200 feet of a wetland, complete the table below. Show the boundaries of each wetland, along with its identifier, and WMZ on your Activity Map. See instructions for information.

Wetland Identifier (number, letter)	Wetland Type (A, B, or Forested)	Planned Activities in Wetland	Planned Activities in Maximum Width WMZ	Total Wetland Area (acres)	How many acres are you draining?	How many acres are you filling?
See Aquatics Addendum						

***** **If not harvesting or salvaging timber, skip to number 29** *****

21. If harvesting or salvaging timber, complete the table below. Show all harvest areas and unit numbers on your Activity Map. For even-aged harvest units also show surrounding stand information on your Activity Map.

Unit Number	Harvest Type (Even-aged, Uneven-aged, Salvage, Right-of-Way)	Biomass Harvest (Y/N)	Harvest Method (Rubber Tired Skidder, Tracked Skidder, Dozer, Shovel, Full Suspension Cable, Lead-end Suspension Cable, Helicopter, Animal, Chipper-forwarder, Slash Bundler)	Acres to be Harvested	Volume to be Harvested (mbf)	Volume to be Harvested (biomass tonnage)	Volume to be Harvested (%)	Steepest Slope in Harvest Unit (%)
	See FPA Narrative							

22. Reforestation. Check the appropriate box(es).

- Planting. Tree Species: Douglas-fir, western redcedar
- Natural. Include a Natural Regeneration Plan
- Not required because of one or more of the following:
- I am converting some or all of this land to non-forest land in the next 3 years or lands are exempted under WAC 222-34-050.
 - Individual dead, dying, down, or wind-thrown trees will be salvaged.
 - Trees are removed under a thinning program reasonably expected to maximize the long-term productivity of commercial timber.
 - I am leaving at least 100 vigorous, undamaged, and well-distributed saplings or merchantable trees per acre.
 - An average of 190 tree seedlings per acre are established on the harvest area and my harvest will not damage it.
 - Road right-of-way or rock pit development harvest only.

**** If you own MORE than 80 forested acres in Washington, skip to number 27 ****

23. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule on type S, F, or Np waters?

- No If no, continue to number 27.
- Yes If yes, continue to number 24. See instructions for qualifications and information.

24. Choose the answer below that best fits your situation. Show all RMZs on your Activity Map.

- a. ALL of the following apply to me and my land: (If no, answer b.)
- Between June 5, 2006 and today's date I have always owned less than 80 acres of forestland in Washington.
 - Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership.
 - Between June 5, 2006 and today's date this parcel has always been owned by me or someone else that has owned less than 80 acres of forestland in Washington.

b. ONE OR MORE of the following apply to me and/or my land (check all that apply):

- I currently own more than 80 acres of forestland in Washington.
- Between June 5, 2006 and today's date I have owned more than 80 acres of forestland in Washington.
- Between June 5, 2006 and today's date this parcel has been more than 20 acres of contiguous ownership.
- Between June 5, 2006 and today's date this parcel has been owned by someone that has owned more than 80 forested acres in Washington.

25. If harvesting within 115 feet of a Type S or F water on an exempt 20-acre parcel, complete the table below. Show RMZs and stream segment identifiers on your Activity Map. (Include stream shade assessment methodology if you are harvesting within 75 feet, or the maximum RMZ, whichever is LESS. If using BM1 to evaluate shade, you may use the "Stream Shade Assessment Worksheet").

Stream Segment Identifier (letter)	Water Type (S, F)	Segment Length (feet)	Bankfull Width (feet)	Maximum RMZ Width (feet)	Are you harvesting within the maximum RMZ? (Y or N)

26. Are you harvesting within 29 feet of a Type Np water on a 20-acre exempt parcel?

- No Continue to number 29.
- Yes See instructions and describe leave tree strategy in number 31. Then continue to number 29.

27. If harvesting within 200 feet of any of Type S or F waters, complete the table below. Include DFC for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on your Activity Map. (Include stream shade assessment methodology if you are harvesting within 75 feet of S or F waters. If using BM1 to evaluate shade, you may use the "Stream Shade Assessment Worksheet").

Stream Segment Identifier (letter)	Water Type (S or F)	Site Class (I - V)	Stream Width (feet)	Is there a CMZ? (Y/N)	RMZ Harvest Code(s) (see instructions)	DFC Run Number	Total width of RMZ (feet)
See Aquatics Addendum							

28. If harvesting within 50 feet of Type Np water, complete the table(s) below. Show RMZs and stream segment identifiers on your Activity Map.

Stream Segment Identifier (letter)	Total Stream Length in Harvest Unit (feet)	Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet)	Stream Segment Identifier (letter)	Total Stream Length in Harvest Unit (feet)	Length of No-Harvest, 50-foot Buffers in Harvest Unit (feet)
See Aquatics Addendum					

29. How are the following marked on the ground? (Flagging, paint, road, fence, etc.)

Harvest Boundaries: See FPA Narrative

Clumped Wildlife Reserve Trees/Green Recruitment Trees: Blue paint and yellow "Leave Tree Area" tags

Right-of-way limits/road centerlines: Centerlines marked with wooden stakes and orange flagging

Stream Crossing Work: To be flagged by operator, then approved by State lands Contract Administrator with consultation of FP Forester.

Riparian Management Zone Boundaries and Leave/Take Trees: White "Timber Sale Boundary" tags

Channel Migration Zone: N/A

Wetland Management Zone Boundaries and Leave/Take Trees: White "Timber Sale Boundary" tags

30. Are you converting the land to non-forestry use within 3 years of harvest?

No Yes If yes, include your SEPA Determination and/or SEPA checklist.

31. Additional Information (attach additional pages if necessary):

For hydraulic projects in or over S or F water(s) see instructions for required plan information.

See attached FPA Narrative.

32. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - The Forest Practices Act and Rules AND
 - All other federal, state or local regulations.
- Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws.
- If we said that we would not convert the land to non-forestry use, the county or city may deny development permits on this parcel for the next 6 years.
- The following may result in an unauthorized incidental take of certain endangered or threatened fish species:
 - Conversion of land to non-forestry use.
 - Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
 - Equipment Crossings/Fords in or over Type S and F Waters.

Signature of LANDOWNER 	Signature of TIMBER OWNER* (If different than landowner)	Signature of OPERATOR (If different than landowner)
Print Name: John B. Moon	Print Name:	Print Name:
Date: 12/15/2013	Date:	Date:

* NOTE: If you are a "Perpetual Timber Rights Owner," and are submitting this without the Landowner's Signature, provide written evidence the landowner has been notified.

Please make a copy of this FPA/N for your records. If this FPA/N contains a hydraulic project requiring WDFW concurrence review, it will not be available online for public review until after the WDFW concurrence review period.

FPA Narrative

This proposed activity is being conducted on lands covered by the Department's multi-species HCP. These planned activities are consistent with our approved HCP dated September 1997 and associated Incidental Take Permits. See the attached HCP checklist for habitats and species both covered by our HCP agreement and specifically addressed with this proposal. Additionally, attached are DNR proprietary HCP/FPA substitute Addendums for Aquatic Resources, Northern Spotted Owl and Marbled Murrelets. This proposal also complies with the letter of agreement dated February 23, 2007 between DNR state lands and the US Fish and Wildlife Service.

Question #9

A field review was conducted by both a State Lands Archaeologist and a cultural resource technician on October 1, 2015 and site record SN00660 was developed. The Tulalip Tribes, Stillaguamish Tribe of Indians, and Snoqualmie Indian Tribe were contacted on November 19, 2015. A response has yet to be received from the tribes. The Department of Archaeology and Historic Preservation (DAHP) was consulted regarding an avoidance plan for the historical site. The conflict inquiry determined that there are no forest practice activities on any archeological sites, historic archeological resources as defined by RCW 27.53.030; or historic sites eligible for listing on the National Register of Historic Places or the Washington Heritage Register.

If any cultural resources are discovered during forest activity operations, a DNR archaeologist will be notified and will follow the department's "Cultural Resources Inadvertent Discovery Guidelines" procedure.

Question #16:

If installing, replacing, removing or maintaining structures in or over any typed water, complete the table below. Type S and F waters require detailed plan information. Provide plan details in number 31 or attach plan to the FPA/N. Provide crossing locations and identifiers on your Activity Map. (A detailed plan with profiles may also be required for more complex hydraulic projects in Type N Waters per WAC 222-24-042(2)).

Crossing Identifier (letter and/or number)	Water Type (S, F, Np, Ns)	*Existing HPA Number (if applicable)	HPA Expiration Date (if applicable)	Planned Activity (install, replace, remove, temporary, structure maintenance)	Structure (culvert, bridge, ford**, punchon, arch, other)	Proposed Size (dimensions of structure)	Culvert Design Method (No-slope, Stream-sim, Hydraulic, Other) (F and S only)	Channel Bed Width (ft) (F and S only)	Stream Gradient (%) (F and S only)	RMAP Project (Y or N)	FFPPP Project (Y or N)
PT-25											
0+72	5	N/A	N/A	Temp	Culvert	24"x36'	N/A	N/A	N/A	N	N
HK-1801											
6+17	5	N/A	N/A	Temp	Culvert	24"x36'	N/A	N/A	N/A	N	N
11+61	5	N/A	N/A	Temp	Culvert	24"x36'	N/A	N/A	N/A	N	N
14+19	5	N/A	N/A	Temp	Culvert	24"x36'	N/A	N/A	N/A	N	N
15+38	5	N/A	N/A	Temp	Culvert	30"x36'	N/A	N/A	N/A	N	N

*Existing HPAs issued by WDFW will be complied and enforced by WDFW until expiration. Plan details are not required for hydraulic projects permitted with an existing HPA (see instructions).

** Fords and equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain endangered or threatened fish species. For more information, see "Background for the state's Incidental Take Permits for certain endangered and threatened fish species" following number 24 of the FPA/N Instructions.

Question #17:

In order to achieve adequate deflection, cables may be suspended over type 3, 4 and 5 streams. If yarding occurs over type 5 streams, lead end of logs will be suspended over streams. Equipment for ground-based operations will cross type 5 streams at designated crossings. Type 5 stream crossings by ground-based equipment shall be as close to perpendicular as possible and may require log cribbing, culvert installation, or other approved methods to be in place to protect channels and banks. Timber will be fallen and yarded away from all streams when possible.

Cable yarding will be required to harvest Units 2A, 2B, and 2C. The cable yarding will occur over Marsh Creek, a type 3 stream. A maximum of five RMZ corridors will be utilized for harvesting Units 2A, 2B, and 2C. Corridors shall be no wider than 20 feet. Corridors shall be separated by a minimum of 30 feet at the point where they cross Marsh Creek. No corridor shall intersect any stream junction along Marsh Creek. No corridor will cross inner gorge features located between Units 2A and 3. Any timber felled within the core and inner zones of the RMZ will be left on site. Timber felled outside of the core and inner zones is considered harvestable. Full suspension will be required while yarding through the core and inner zones of the RMZ. A minimum of two landings will be used to harvest Units 2A, 2B and 2C.

These yarding corridor requirements were discussed at an on-site ID team meeting November 4, 2015 (ICN #135463) and via emails of November 24, 2015 and December 15, 2015.

Question #18:

Any roads to be built then abandoned (also known as temporary roads) that are listed in the table for Question #10, are "optional construction roads". Of the length listed in the table, zero feet up to the entire length listed may be built. For further information please see the road plan associated with the timber sale, on file at the Northwest Region Office.

Road Identifier (Name, Number)	Road Construction		Abandonment Plan	
	Length (feet)	Steepest Side-slope (%)	Length (feet)	Abandonment Date
PT-07 Temp Construction	640	20	640	3/31/2019
PT-1405 Construction	170	20	-	-
PT-20 Temp Construction	216	35	216	3/31/2019
PT-25 Temp Construction	1,410	72	1,410	3/31/2019
PT-2501 Temp Construction	129	35	129	3/31/2019
PT-2502 Temp Construction	208	35	208	3/31/2019
PT-2802 Temp Construction	102	30	102	3/31/2019
HK-01 Temp Construction	141	20	141	3/31/2019
HK-19 Temp Construction	429	40	429	3/31/2019
HK-20 Temp Construction	444	45	444	3/31/2019
HK-21 Temp Construction	390	40	390	3/31/2019
HK-1801 Temp Construction	1,740	40	1,740	3/31/2019
PT-28	-	-	2,706	3/31/2019
Total Construction	170			
Total Temporary Construction	5,849			
Total Road Construction	6,019		8,555	Total Abandonment

Question #19:

Additional pit(s) may be developed/utilized along haul route or constructed roads. These will be less than 0.5 acre, and located outside RMZs or sensitive areas.

Spoil Area Identifier (Number, Letter)	Spoils Deposited (Cubic Yards)	Rock Pit Identifier* (Name, Number, Letter)	Acres of New Rock Pit Developed	Acres of Existing Rock Pit Expanded
		HK-27 Hard Rock Pit		0.2
		SP-0202 Hard Rock Pit		0.1

Question #21:

Ground-based equipment operations will be limited to sustained slopes 35% or less.

Unit Number	Harvest Type	Biomass Harvest (Y/N)	Harvest Method	Acres to be Harvested	Volume to be Harvested (mbf)	Volume to be Harvested (biomass tonnage)	Volume to be Harvested (%)	Steepest Slope in Harvest Unit (%)
1	Even-aged	N	Ground/Cable	4.1	227	--	95	67
2*	Even-aged	N	Cable	12.6	525	--	95	80
3**	Even-aged	N	Ground/Cable	51.8	2,408	--	95	94
4	Even-aged	N	Ground/Cable	73.3	2,275	--	95	67
5	Even-aged	N	Ground/Cable	15.6	465	--	95	6
6	Even-aged	N	Ground/Cable	3.9	126	--	95	4
			Totals	161.3	6,026		95	94

* Includes approximately 1.5 acres of RMZ harvest acres. See Question 17 for additional information.

**Unit 3 has void areas with no merchantable timber. Cable yarding may occur through these void areas, but no timber harvesting will occur.

Question #29:

Harvest Boundaries: White "Timber Sale Boundary" tags, young stand boundaries, Portal Mainline (PT-ML) road, and Hawk Ridge Mainline (HK-ML).

Question #31:

Activity Map – Leave Tree locations depicted are approximate. Leave trees may be exchanged or traded to locations other than mapped on the Activity Maps to facilitate operational feasibility with the exception of those indicated otherwise on the FPA maps as “Non-Tradeable Leave Tree Area” and those trees marked with two bands of blue paint which are non-tradeable.

During a site visit to Unit 3 of the proposed Lotta Strands timber sale a DNR State Lands Licensed Engineering Geologist who meets the definition of Forest Practices “Qualified Expert” identified an area exhibiting characteristics of an alluvial fan. Review of the Forest Practices Rules and the Washington Administrative Code (WAC) by the forester, determined that the area in question did not meet the definition of an alluvial fan as defined in WAC 222-16-010.

The area was also evaluated for the presence of a potential Channel Migration Zone (CMZ). A topographic feature resembling a stream channel was observed within the area in question. However based on definitions in WAC 222-16-010 and field observations it was determined that there is no CMZ present.

Based on definitions provided in WAC 222-16-010, Section 2 of the Forest Practices Board Manual, and field observations, it has been determined that the area in question does not require protection under the Forest Practices Rules.

The features in question are not classified as Rule Identified Landforms constituting a Class IV-special Forest Practices trigger based on the definitions in WAC 222-16-050 and descriptions in the Forest Practices Board Manual Section 16.

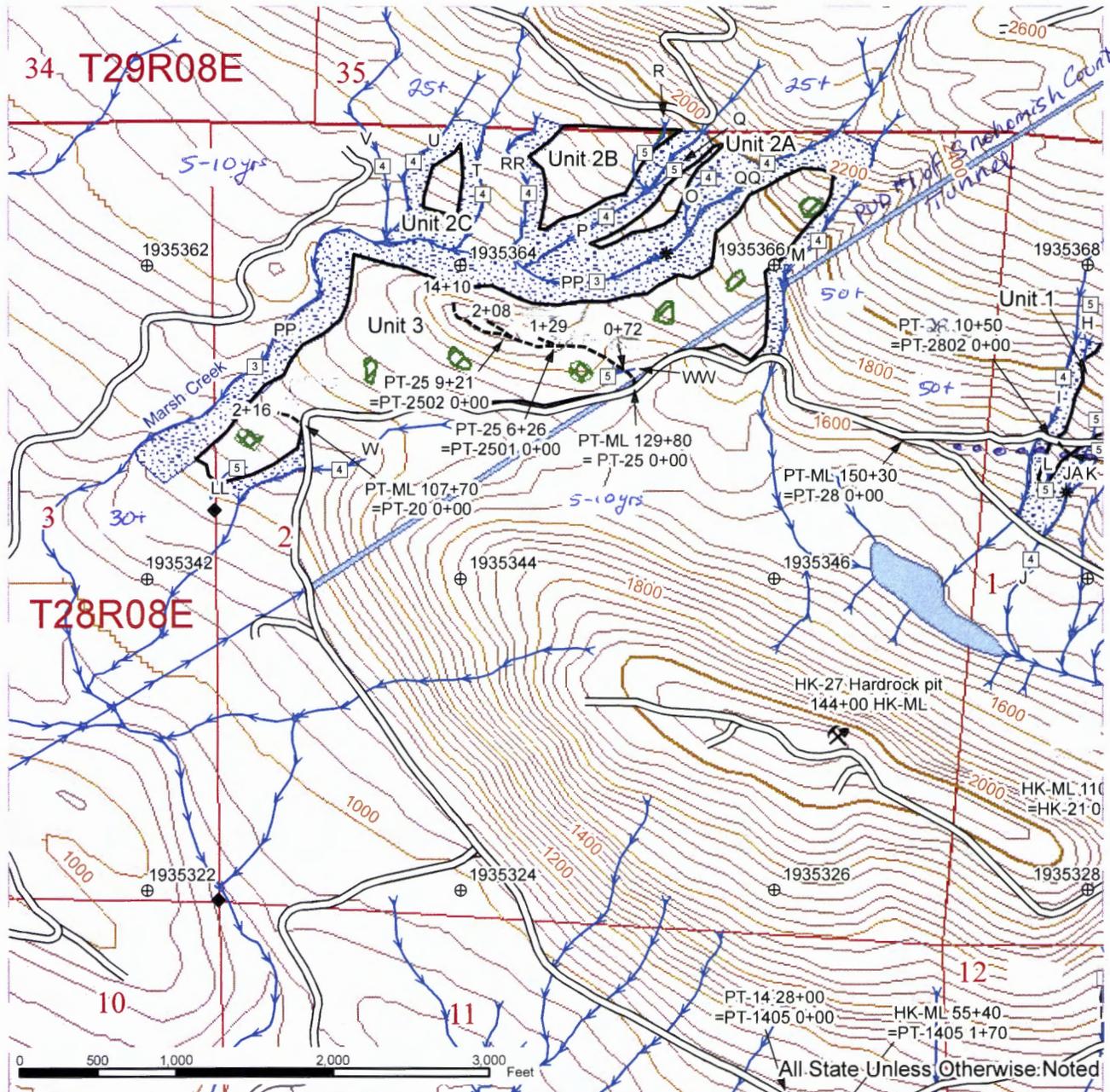
A Forest Practices Forester and a Geologist from the Tulalip Tribes were on site during a field visit on November 4, 2015. Decisions documented in ICN # 135463 and email correspondence dated December 15, 2015.

Timing restrictions will be applied to Unit 4 of the proposal as it lies within 0.25 mile of Criteria 3 newly-identified habitat. Timing restrictions for Unit 4 will be implemented for activity associated with harvesting timber and/or road building. The timing restrictions will be in effect from April 1 through August 31, from 1 hour before to 2 hours after official sunrise, and 1 hour before to 1 hour after official sunset.

FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E

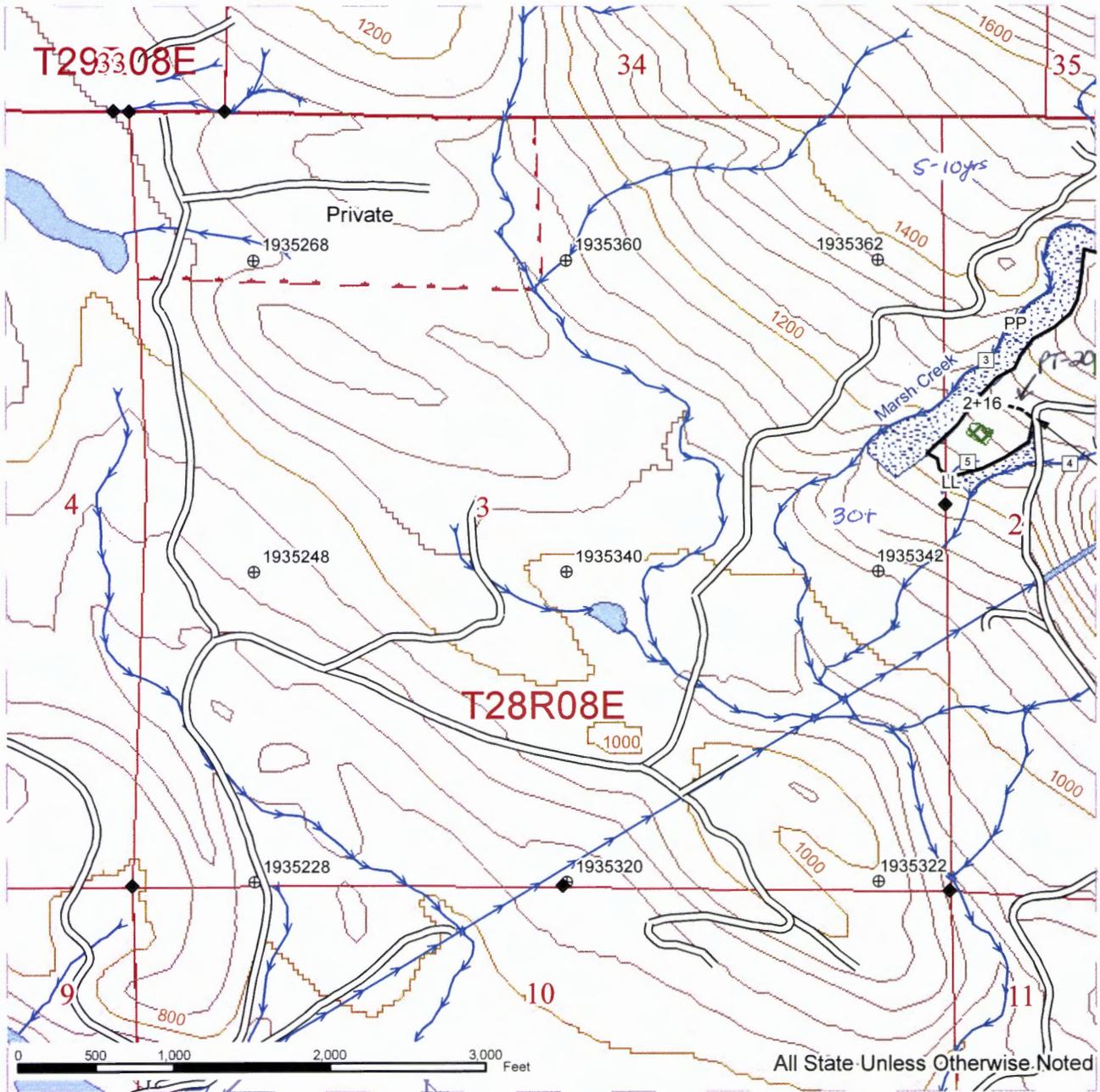


Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
Stream Type	Riparian Management Zone	Existing Roads
Stream Type Break	Non-Tradeable Leave Tree Area	Rock pit
A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
19XX Stand Origin Date	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	Existing road abandonment

FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
Stream Type	Riparian Management Zone	Existing Roads
Stream Type Break	Non-Tradeable Leave Tree Area	Rock pit
A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	

Prepared By: jmoo490

Creation Date: 11/17/2015

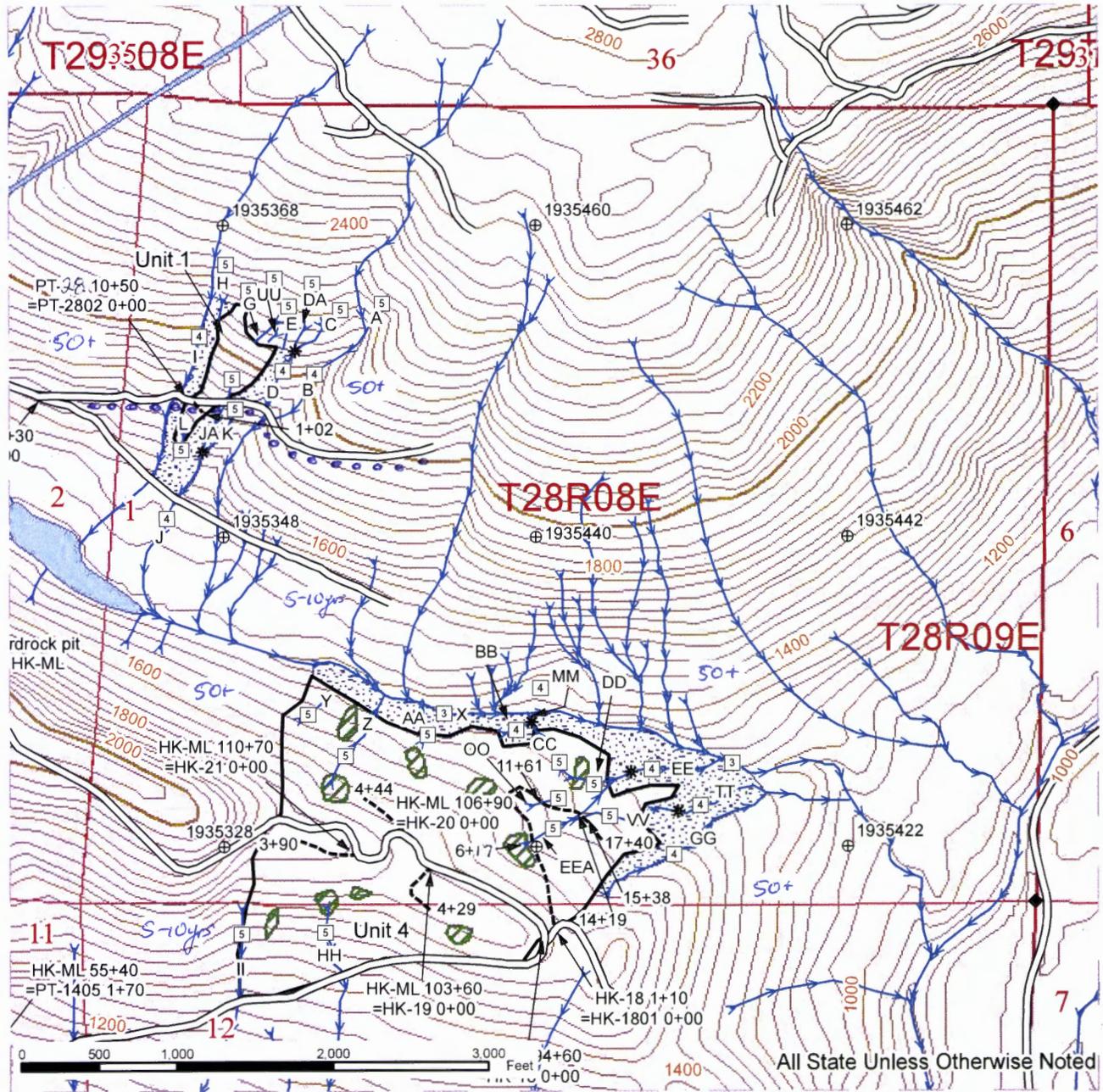
Modification Date: 12/18/2015

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FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
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Public Land Survey Townships	Public Land Survey Sections	Gate
DNR Managed Lands		Tics - 2000' Interval
		Existing road abandonment

Prepared By: jmoo490

Creation Date: 11/17/2015

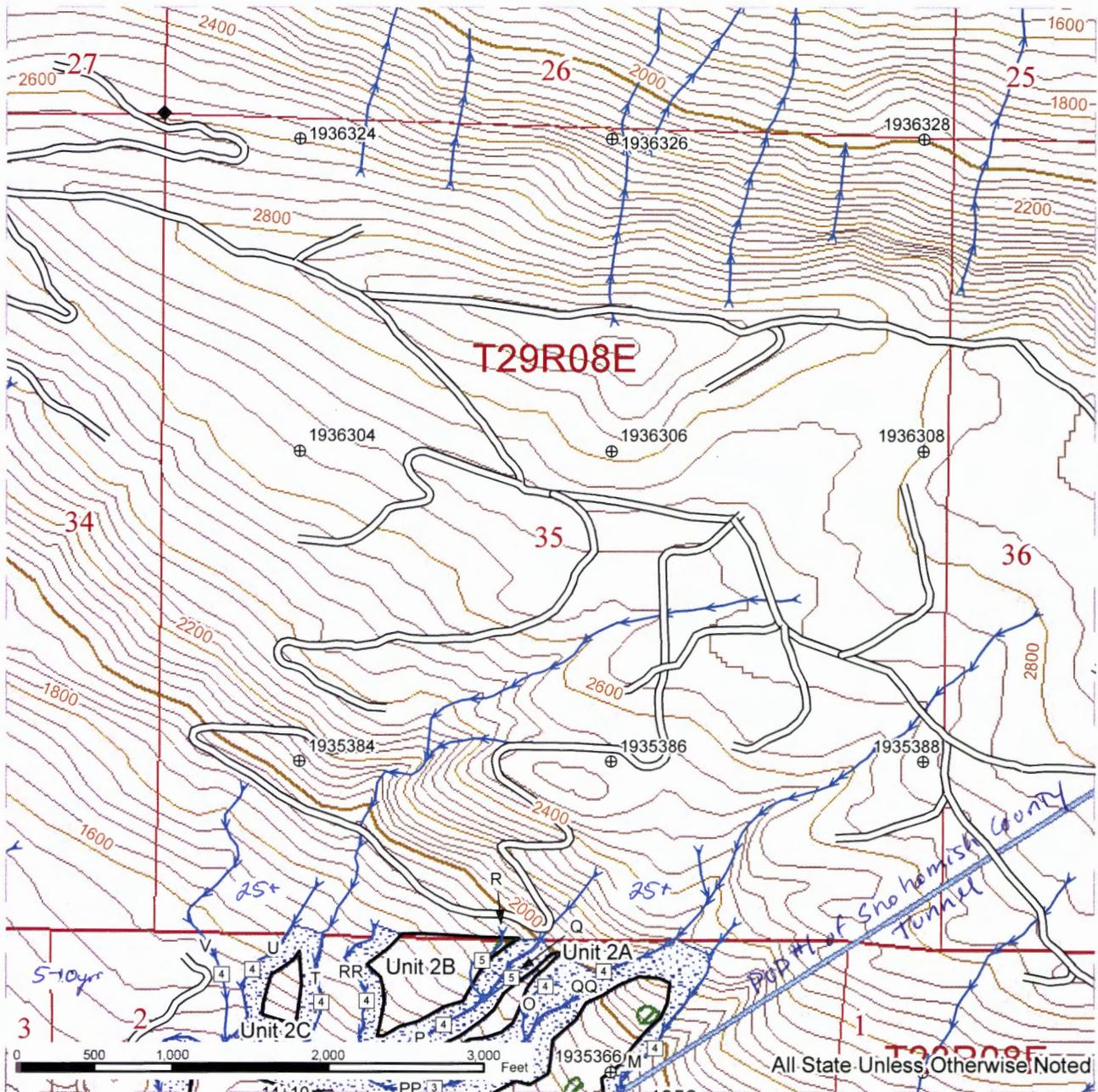
Modification Date: 12/18/2015

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FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
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A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	

Prepared By: jmoo490

Creation Date: 11/17/2015

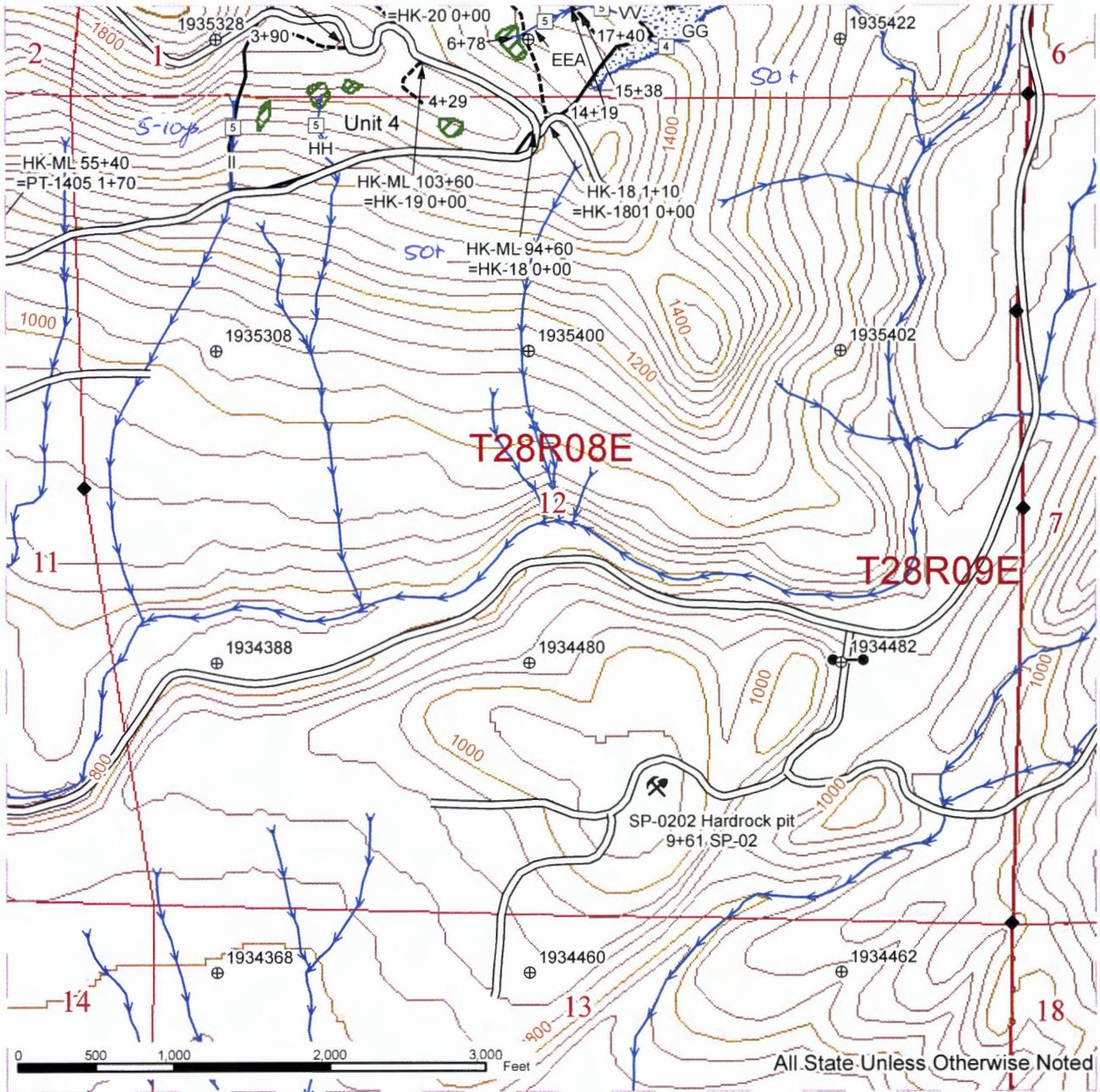
Modification Date: 12/18/2015

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FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
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A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	

Prepared By: jmoo490

Creation Date: 11/17/2015

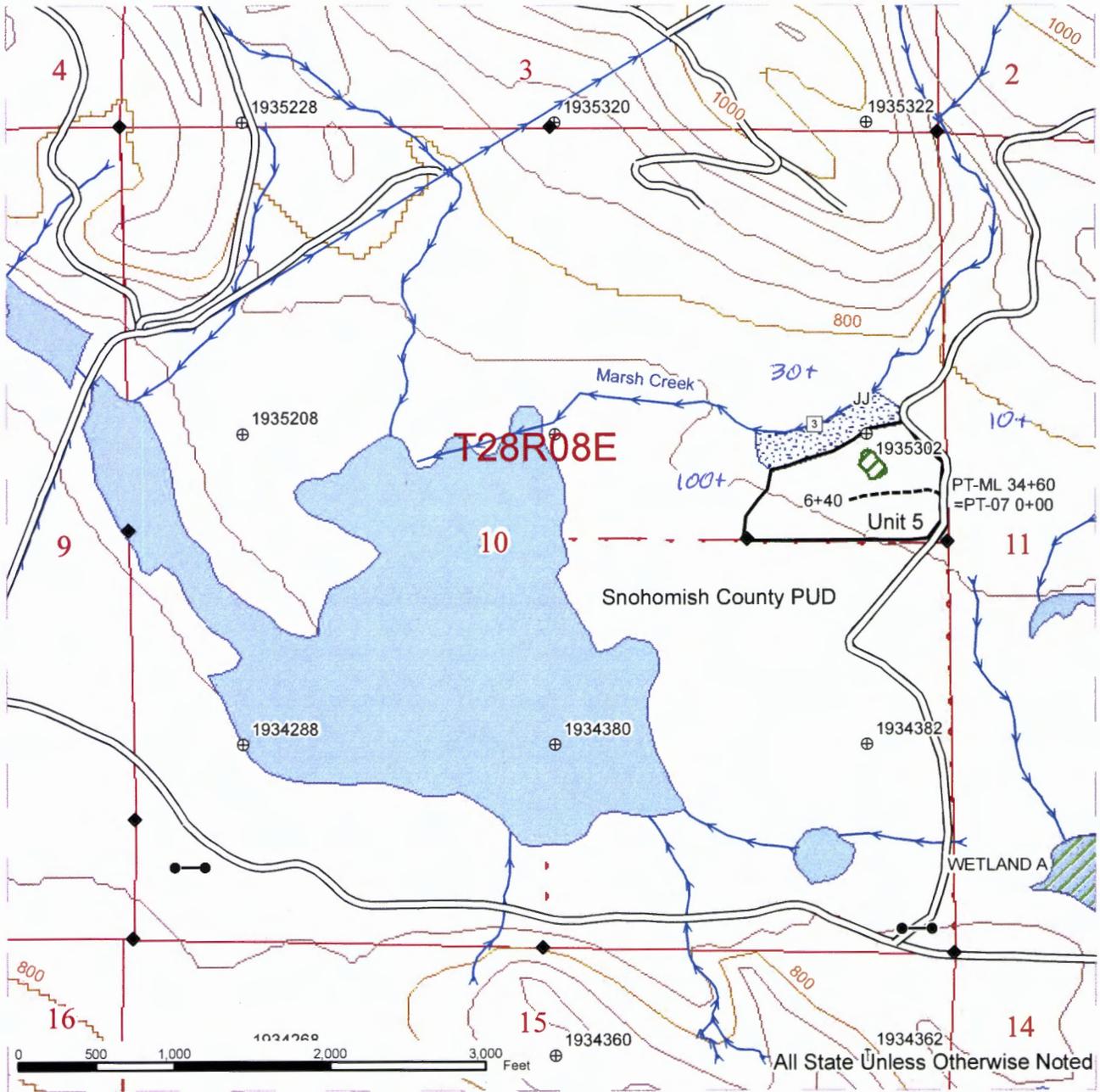
Modification Date: 12/18/2015

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FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E

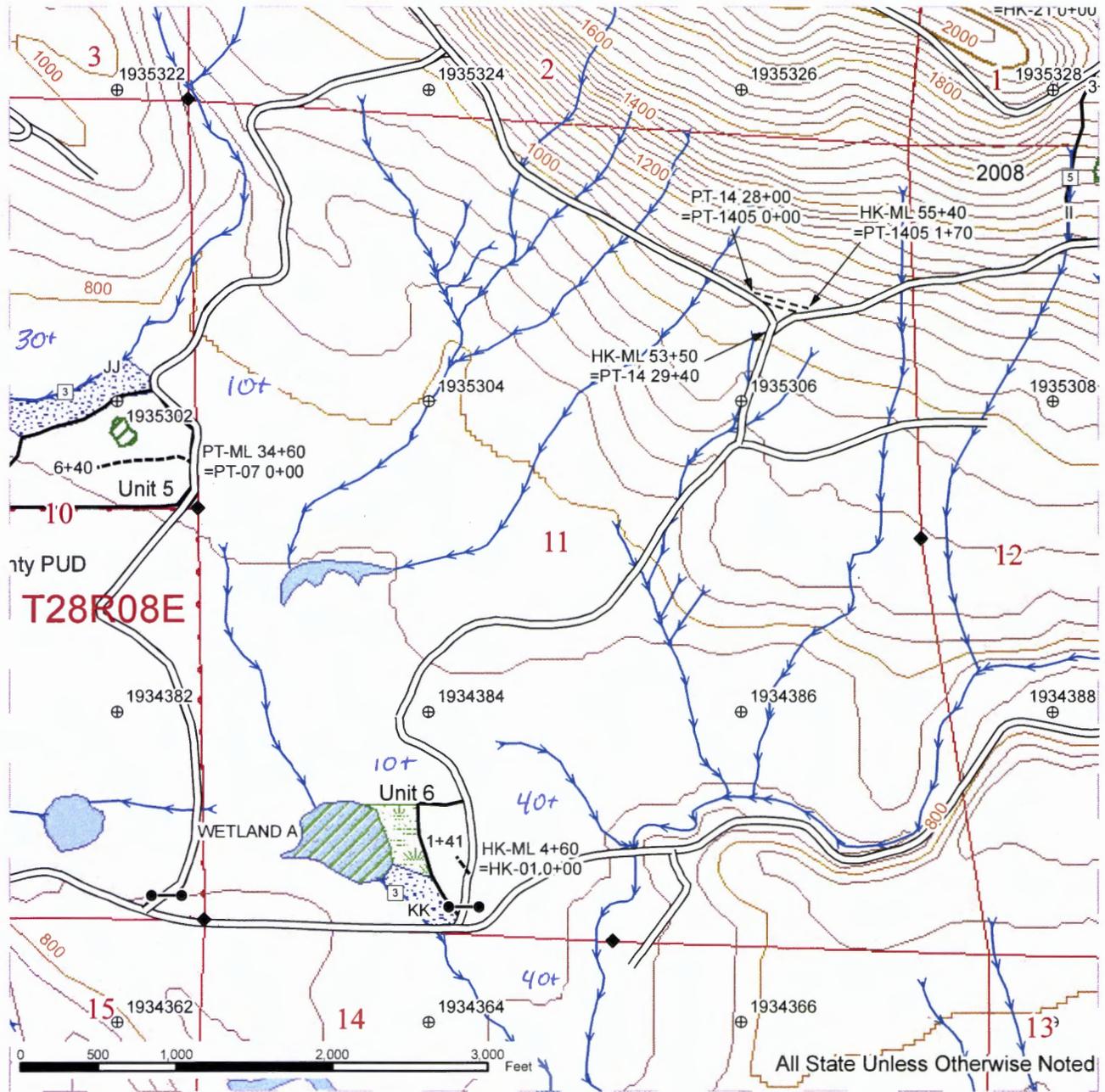


Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
Stream Type	Riparian Management Zone	Existing Roads
Stream Type Break	Non-Tradeable Leave Tree Area	Rock pit
A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
Public Land Survey Townships	Public Land Survey Sections	Gate
DNR Managed Lands		Tics - 2000' Interval

FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
Stream Type	Riparian Management Zone	Existing Roads
Stream Type Break	Non-Tradeable Leave Tree Area	Rock pit
A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	

Burton, Betty (DNR)

From: Moon, John (DNR)
Sent: Tuesday, November 24, 2015 3:00 PM
To: HUANG, STEVEN (DNR); Bails, Jamie L (DFW); nshea@tulaliptribes-nsn.gov; 'bshattuck@tulaliptribes-nsn.gov'
Subject: Lotta Strands corridors over Marsh Creek

Hi everyone,

I wanted to send out the final specifications that I have in place for the cable yarding corridors over Marsh Creek (type 3 stream) associated with the Lotta Strands Timber Sale. I know concurrence is not needed for this, but at the ID team meeting we had on Nov. 4th, I was still finalizing what we were going to require in terms of mitigation/protection for the stream. The following requirements will be incorporated into the timber sale contract and will be listed in the FPA narrative:

1. A maximum of five corridors will be used for harvesting Units 2A, 2B, and 2C.
2. Corridors will be no wider than 20 feet.
3. Corridors will be no closer than 30 feet at the point where they cross Marsh Creek.
4. No corridor shall intersect any stream junction along Marsh Creek.
5. No corridor will cross the inner gorge features located between units 2A and 3.
6. Any timber felled to facilitate yarding within the inner and core zones of the RMZ will remain on site.
7. Full suspension will be required while yarding through the inner and core Zones of the RMZ.
8. A minimum of two landings will be used to harvest Units 2A, 2B, and 2C.

Please let me know if you have any questions/concerns with these requirements.

Thank you for your time,

John Moon
Presales Forester
Northwest Region – Boulder Unit
Washington Department of Natural Resources (DNR)
(360) 691-7677
john.moon@dnr.wa.gov

Burton, Betty (DNR)

From: Moon, John (DNR)
Sent: Tuesday, December 15, 2015 2:13 PM
To: HUANG, STEVEN (DNR)
Subject: ICN 15-135463 Update

Hi Steve,

I was wondering if you would be able to update the ICN for the Lotta Strands timber sale. We had an ID team meeting on site back on November 4 where we looked at a possible bridge replacement, cable yarding corridors, and a possible CMZ/alluvial fan area. We had discussed that I would get back to you with a final bridge or corridor decision for accessing three harvest units across Marsh Creek. I sent an email to you, Jamie Bails, and representatives of the Tulalip Tribes on November 10 stating that we decided to utilize cable corridors to access the units across Marsh Creek and not remove or replace the log stringer bridge. On November 24 I sent another email with the final specifications for the cable yarding corridors across Marsh Creek.

While on site in unit 3 on November 4, we also briefly discussed 2 topographic features, one that resembled a historic stream channel and possible CMZ, and one alluvial fan area. I described that there was no live stream channel, and that there was no evidence of a stream channel present. We also discussed that the processes that built the alluvial fan were no longer present or active on the landscape. This is based on topographic features, a lack of disturbance vegetation, and the characteristics of Marsh Creek. Based on the evidence on the ground neither of these features required protection under the forest practices rules.

Would it be possible for you to update the ICN to reflect the final yarding corridor stipulations, and the determinations regarding the potential CMZ and alluvial fan? I would like to have our final decisions regarding this sale documented should it be needed in the future. Please let me know if you would like any additional information about the timber sale.

Thanks,

John

John Moon
Presales Forester
Northwest Region – Boulder Unit
Washington Department of Natural Resources (DNR)
Work Center: (360) 691-7677
Cell: (913) 481-7118
john.moon@dnr.wa.gov

**Slope Stability Informational Form
Forest Practices Application/Notification**

Note: Complete and attach this form to your FPA if you answered "Yes" to FPA question 11 or 12. "Potentially unstable slopes or landforms" are defined in WAC 222-16-050(1)(d). See Board Manual Section 16 part 2.1 for descriptions of potentially unstable slopes.

1. What screening tools were used? GIS, Aerial Photo, LiDAR, Other (describe):
Department of Natural Resources State Lands Geologist field review on October 23, 2015. Forest Practices Landslide Inventory screening tool, Forest Practices Landslide Hazard Zones screening tool, State Lands Geologist Remote Review (SLGRR) screening tool.

2. What potentially unstable slopes were identified within the boundaries of your forest practices activity area? Check all that apply:
 Inner Gorge Groundwater recharge areas for glacial deep-seated landslides
 Bedrock Hollow Convergent Headwall Toe of deep-seated landslide
 Outer edges of meander bends Other (describe):

3. What potentially unstable slopes were identified adjacent to your forest practices activity area? Check all that apply:
 Inner Gorge Groundwater recharge areas for glacial deep-seated landslides
 Bedrock Hollow Convergent Headwall Toe of deep-seated landslide
 Outer edges of meander bends Other (describe):

4. Date of field review: October 23, 2015

5. Person(s) that conducted field review:	John McKenzie - NW Region Licensed Eng. Geologist	FP "Qualified Expert"
	Name	Title/position
	John Moon	Forester
	Name	Title/position

6. If any features identified in #2 and /or #3 were bounded out, describe the manner in which the boundary was determined:
 Inner gorge features were identified during the field review and all were located within no-harvest stream buffers for type 3 and type 4 streams with the exception of one adjacent inner gorge feature. The boundary of Unit #2A was then modified to bound out this adjacent inner gorge feature by leaving one crown width between the edge of the proposal and the feature.

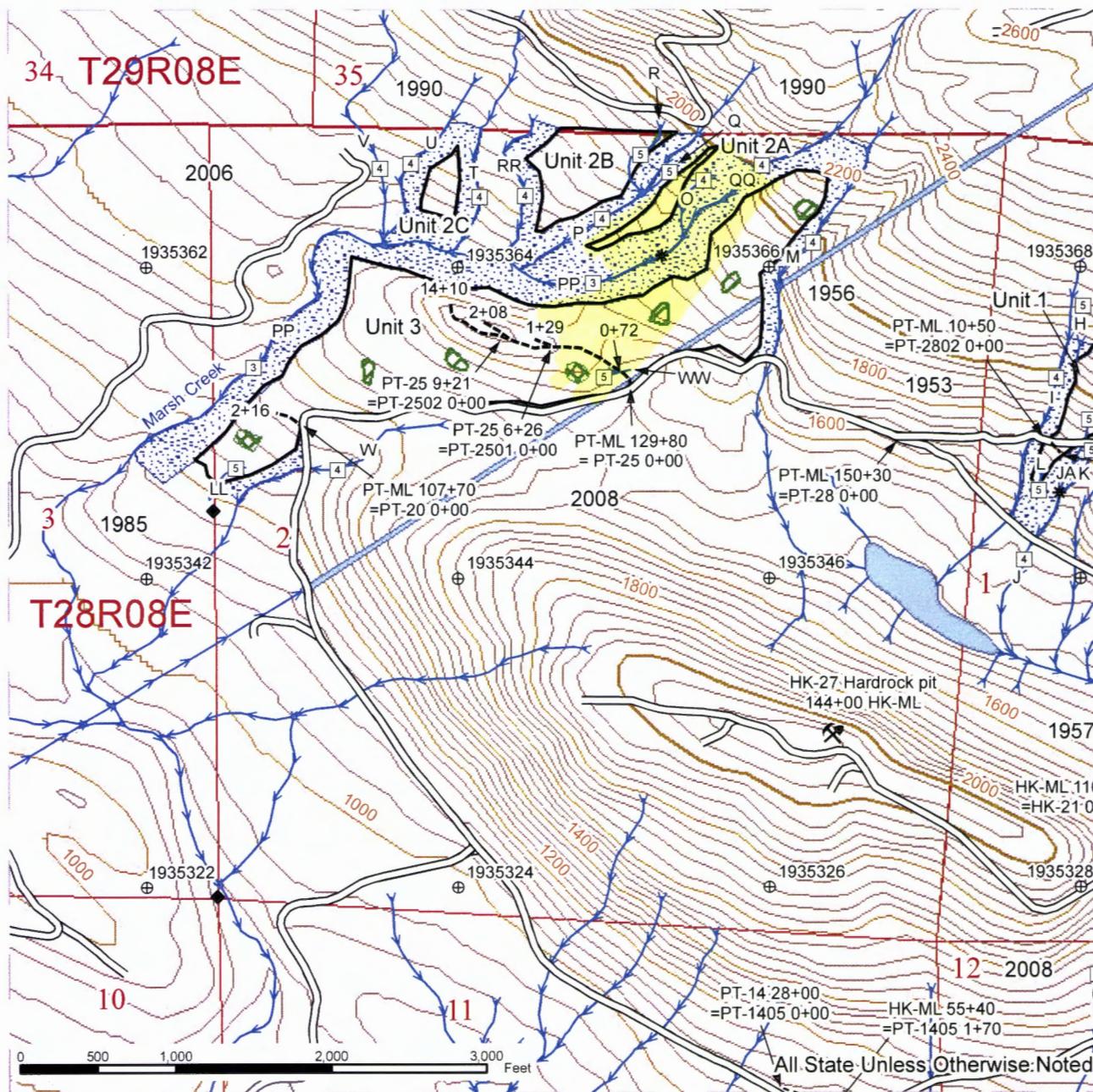
7. Show all field reviewed areas for potentially unstable slopes or landforms on a map (may use a forest practices activity map, harvest map or GIS map – See map example on page 35). **This map is intended to be developed by the field practitioner.**

Area Reviewed by Geologist (field reviewed per Geologist)
 BC 1-27-16

FOREST PRACTICES ACTIVITY MAP

SALE NAME: LOTTA STRANDS
 APPLICATION #: 30-093059

COUNTY(S): SNOHOMISH
 TOWNSHIP(S): T29R08E, T28R08E



Timber Sale Unit	Wetlands	Temporary Construction
Streams	Wetland Management Zone	Permanent Construction
Stream Type	Riparian Management Zone	Existing Roads
Stream Type Break	Non-Tradeable Leave Tree Area	Rock pit
A, B, C Stream Identifier	Leave Tree Area	Monumented Corner
19XX Stand Origin Date	Public Land Survey Townships	Gate
	Public Land Survey Sections	Tics - 2000' Interval
	DNR Managed Lands	

**Forest Practices Application/Notification Addendum
DNR Proprietary HCP, WAC Replacement Summary for Aquatic Resources, 2008
Five West-side Planning Units, Excluding the OESF**

Please refer to the DNR Proprietary HCP Substitution Agreement for Aquatic Resources, 2008. Please check all HCP prescriptions and/or activities, which are relevant to this proposal and describe the management prescriptions and final stand composition at the end of this checklist.

NOTE: When assessing hydrologic maturity for each sub-basin inside the rain-on-snow zone, DNR staff will use the most updated data layer delineating Watershed Administrative Units as designated by Forest Practices.

- Assessing Hydrologic Maturity in the Rain-On-Snow (ROS) Zone (Refer to item A in the Agreement Memo). If the activity lies within the ROS zone and subbasin will be managed for ROS, fill out the following table. If within ROS zone, but subbasin will not be managed for ROS, describe why in additional information section below.

1. SUB-BASIN NAME	2. TOTAL ROS ACRES (DNR) WITHIN SUB-BASIN	3. HYDRO MATURE TARGET ACRES (2/3 of Column 2)	4. CURRENT DNR SUB-BASIN ACRES IN HYDRO MATURE FOREST IN ROS	5. ACRES OF HYDRO MATURE FOREST TO BE REMOVED	6. SUPPLUS (+) OR DEFICIT (-) ACRES AFTER ACTIVITY
Olney Creek Sub-basin 6	2331	1554	1702	67.3	+80.7
Sultan River Sub-basin 6*					

- Wetlands Protection, road construction within wetlands or wetland buffers, requires mitigation. (Refer to item B in the Agreement Memo). If this activity will include road construction within a wetland or WMZ, describe the type of wetland, potential loss of wetland function and how and where the loss of function will be mitigated.
- Harvesting within Forested Wetlands. (Refer to items C & E in the Agreement Memo). Describe the remaining stand characteristics within the wetland and map any forested wetlands greater than 3 acres.
- Wetland Management Zones. (Refer to item D in the Agreement Memo). Describe the site index and WMZ width. If harvesting within the WMZ, describe the remaining stand characteristics within the WMZ.
- Riparian Management Zones for Type 1, 2 and 3 Waters (Refer to item F and Appendix 1 in the Agreement Memo). Describe the site index, RMZ width and if a wind buffer was applied. Describe if the RMZ begins from the outer edge of a CMZ or 100-year floodplain and how they were typed.
- Riparian Management Zones for Type 4 and 5 Waters (Refer to item G and Appendix 1 in the Agreement Memo). Describe any special protection for Type 5 waters.
- Harvesting or Salvaging within Type 1, 2, 3 and 4 Riparian Management Zones. (Refer to item F-J and Appendix 3 in the Agreement Memo). If harvesting, describe the general

HCP Riparian Forest Restoration Strategy management scenario under which the proposal's riparian stand will be managed. Describe stand treatment including removals, down wood and snag recruitment and type of activities. Describe post-harvest stand; how it meets the management parameters of the general management scenario, what species composition and diameter classes will remain, trees per acre, basal area, relative density. If salvaging, describe how you will be meeting the RDFC conditions, what you will retain and removals and other salvage/restoration conditions described within the Ecosystem Services Section approved site specific restoration plan (and/or attach plan).

Please provide any requested additional information below. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below (e.g. research).

***Sultan River WAU**

Sub-basin 6 – 19.9% in significant rain on snow zones

Sub-basin 6 of the Sultan River WAU has less than one third of total sub-basin acreage in the significant ROS zone; therefore it does not meet the criteria of and will not be managed for the ROS strategy.

Total Sultan River sub-basin 6 acres: 4421

Total Sultan River sub-basin 6 ROS acres: 881 (19.9%)

Wetland Management Zone (WMZ)

The proposal contains one open wetland (Wetland A). The wetland is 5.6 acres and is protected with a 201-foot no-harvest site index buffer.

Riparian Management Zones (RMZ) Type 1, 2, and 3 waters

Four type 3 streams are adjacent to the proposal. The type 3 determination is based on greater than two feet average stream width, less than 16% average stream gradient, and in the lower reaches of Marsh Creek fish presence was observed. One unnamed type 3 stream (KK) has a 201-foot no-harvest site index buffer. Another unnamed type 3 stream (X) has a 142-foot no-harvest site index buffer. The third/fourth type 3 stream is Marsh Creek (Marsh Creek was broken into two segments for stream identification purposes, Upper and Lower), this stream has a 162-foot no-harvest site index buffer, and a 152-foot no-harvest site index buffer. There are two buffer widths applied to the type 3 portions of Marsh Creek due to variable site indexes along the stream course.

Riparian Management Zones (RMZ) Type 4 waters

There are 18 type 4 streams adjacent to the proposal area. All type 4 streams have been bounded out of the sale area utilizing 100-foot no-harvest buffers.

There are 24 type 5 streams within or adjacent to the proposal area. These streams will have a 30 foot equipment limitation zone applied to both sides of the stream channel. Trees are to be felled and yarded away from and perpendicular to streams where feasible.

Harvesting or Salvaging within Type 1, 2, 3 and 4 Riparian Management Zones (RMZ)
Yarding corridors will be utilized to harvest timber across Marsh Creek, a type 3 stream. There will be a maximum of 5 corridors that will be limited to 20 feet wide and will be spaced no closer than 30 feet apart. No timber will be removed from the inner or core zones of the RMZ and timber removals from the outer zone are not expected to alter stand composition, RMZ function, or stand stocking/density levels. Full suspension of logs through the inner and core zones of the RMZ will result in minimal impact to the RMZ.

Forest Practices Application/Notification Addendum
DNR Proprietary HCP, WAC Replacement Summary for Aquatic Resources, 2008
Five West-side Planning Units, Excluding the OESF

Stream Segment Identifier or Wetland Identifier	Water Type or Wetland "forested or open water"	Site Class FP Base Map / Other source	Stream Width (feet) or Wetland Size	Is there a CMZ?	Total Width of RMZ/WMZ FP width / Actual width (feet)	Wind Buffer?
PP (Upper Marsh Creek)	3	III	>5	No	140/162	No
JJ (Lower Marsh Creek)	3	III	>5	No	140/152	No
X	3	III	>3	No	140/142	No
KK	3	III	>3	No	140/201	No
B	4	III	>2	No	50/100	N/A
D	4	III	>2	No	50/100	N/A
I	4	III	>2	No	50/100	N/A
J	4	III	>2	No	50/100	N/A
M	4	III	>2	No	50/100	N/A
QQ	4	III	>2	No	50/100	N/A
P	4	III	>2	No	50/100	N/A
RR	4	III	>2	No	50/100	N/A
T	4	III	>2	No	50/100	N/A
U	4	III	>2	No	50/100	N/A
V	4	III	>2	No	50/100	N/A
W	4	III	>2	No	50/100	N/A
MM	4	III	>2	No	50/100	N/A
EE	4	III	>2	No	50/100	N/A
TT	4	III	>2	No	50/100	N/A
GG	4	III	>2	No	50/100	N/A
BB	4	III	>2	No	50/100	N/A
O	4	III	>2	No	50/100	N/A
A	5	III	<2	No	0/30-foot equipment limitation zone	N/A
C	5	III	<2	No	0/30-foot equipment limitation zone	N/A
DA	5	III	<2	No	0/30-foot equipment limitation zone	N/A
E	5	III	<2	No	0/30-foot equipment limitation zone	N/A
UU	5	III	<2	No	0/30-foot equipment limitation zone	N/A

G	5	III	<2	No	0/30-foot equipment limitation zone	N/A
H	5	III	<2	No	0/30-foot equipment limitation zone	N/A
K	5	III	<2	No	0/30-foot equipment limitation zone	N/A
L	5	III	<2	No	0/30-foot equipment limitation zone	N/A
Q	5	III	<2	No	0/30-foot equipment limitation zone	N/A
R	5	III	<2	No	0/30-foot equipment limitation zone	N/A
LL	5	III	<2	No	0/30-foot equipment limitation zone	N/A
Y	5	III	<2	No	0/30-foot equipment limitation zone	N/A
Z	5	III	<2	No	0/30-foot equipment limitation zone	N/A
AA	5	III	<2	No	0/30-foot equipment limitation zone	N/A
CC	5	III	<2	No	0/30-foot equipment limitation zone	N/A
DD	5	III	<2	No	0/30-foot equipment limitation zone	N/A
EEA	5	III	<2	No	0/30-foot equipment limitation zone	N/A
VV	5	III	<2	No	0/30-foot equipment limitation zone	N/A
HH	5	III	<2	No	0/30-foot equipment limitation zone	N/A
JA	5	III	<2	No	0/30-foot equipment limitation zone	N/A
II	5	III	<2	No	0/30-foot equipment limitation zone	N/A
WW	5	III	<2	No	0/30-foot equipment limitation zone	N/A
OO	5	III	<2	No	0/30-foot equipment limitation zone	N/A
Wetland A	Open	III	5.6 acres	N/A	50 average/201	N/A

DNR Trust Forestland HCP Water Typing Key

ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID PP (Marsh Creek)

DATE 11/18/2015

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?

Yes. Type 3 stream.

No. Go to question # 2.

2. Has the stream been surveyed?

Yes. Attach the survey data to the Application/Notification.

Fish found. Type 3 stream.

No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Type 4 stream.

No. Type 5 stream.

No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Go to question # 4.

No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?

(Example: 16' fall in elevation over 100 feet of stream = $16/100 = .16$ or 16%).

Yes. Type 3 stream.

No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?

Yes. Go to question # 6.

No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?

Yes. Type 3 stream.

No. . Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08

14990

DNR Trust Forestland HCP Water Typing Key

ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID JJ (Marsh Creek)

DATE 11/18/2015

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?

- Yes. Type 3 stream.
 No. Go to question # 2.

2. Has the stream been surveyed?

- Yes. Attach the survey data to the Application/Notification.
 Fish found. Type 3 stream.
 No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?
 Yes. Type 4 stream.
 No. Type 5 stream.
 No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

- Yes. Go to question # 4.
 No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?

(Example: 16' fall in elevation over 100 feet of stream = $16/100 = .16$ or 16%).

- Yes. Type 3 stream.
 No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?

- Yes. Go to question # 6.
 No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?

- Yes. Type 3 stream.
 No. . Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08

DNR Trust Forestland HCP Water Typing Key

ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID X, KK

DATE 11/18/2015

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?

Yes. Type 3 stream.

No. Go to question # 2.

2. Has the stream been surveyed?

Yes. Attach the survey data to the Application/Notification.

Fish found. Type 3 stream.

No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Type 4 stream.

No. Type 5 stream.

No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Go to question # 4.

No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?

(Example: 16' fall in elevation over 100 feet of stream = $16/100 = .16$ or 16%).

Yes. Type 3 stream.

No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?

Yes. Go to question # 6.

No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?

Yes. Type 3 stream.

No. . Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 feet intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08

DNR Trust Forestland HCP Water Typing Key

ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID B, D, I, J, M, QQ, P, RR, T, U, V, W, MM, EE, TT, GG, BB, O DATE 11/18/2015

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?

Yes. Type 3 stream.

No. Go to question # 2.

2. Has the stream been surveyed?

Yes. Attach the survey data to the Application/Notification.

Fish found. Type 3 stream.

No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Type 4 stream.

No. Type 5 stream.

No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Go to question # 4.

No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?

(Example: 16' fall in elevation over 100 feet of stream = $16/100 = .16$ or 16%).

Yes. Type 3 stream.

No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?

Yes. Go to question # 6.

No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?

Yes. Type 3 stream.

No. . Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 foot intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

DNR Trust Forestland HCP Water Typing Key

ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID A, C, DA, E, UU, G, H, K, L, Q, R, LL, Y, Z, AA, CC, DD, EEA, VV, HH, JA, II, WW, OO
DATE 11/18/2015

Within your road construction and harvest area, you need to physically review these streams on the ground to determine if they meet the criteria of Type 3 water. Refer to DNR Trust Forestland HCP Water Typing System to determine Type 1 and 2 waters.

1. Were any fish observed in the stream segment, or are fish known to use this stream segment?

Yes. Type 3 stream.

No. Go to question # 2.

2. Has the stream been surveyed?

Yes. Attach the survey data to the Application/Notification.

Fish found. Type 3 stream.

No fish. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Type 4 stream.

No. Type 5 stream.

No. Go to question # 3.

3. Is the average width of the stream segment two feet (2') or wider between the ordinary high water marks?

Yes. Go to question # 4.

No. Type 5 Stream.

4. Is the gradient of the stream segment 16% or less?

(Example: 16' fall in elevation over 100 feet of stream = $16/100 = .16$ or 16%).

Yes. Type 3 stream.

No. Go to question # 5.

5. Is the average gradient of the stream segment greater than 16% and less than or equal to 20%?

Yes. Go to question # 6.

No.. Type 4 stream.

6. Is the contributing basin (watershed) size to the stream segment greater than 50 acres?

Yes. Type 3 stream.

No. Type 4 stream.

Definitions:

Stream Width: To determine the Ordinary High Water Mark (OHWM) of the stream(s), observe the break between the water influence zone and upland vegetation on the stream bank; this is usually the spring high water mark. Then measure stream width between the OHWMs on either side of the stream at 50 foot intervals along the stream bank for a minimum distance of 500 feet. This determines the average width of the stream. For further information see page M-11 of the board manual.

Stream Gradient: The gradient of a stream is defined as the inclination or rate of fall of a stream bed, expressed as a percentage. The average gradient of a stream is determined by calculating the inclination of individual sub-reaches over a minimum distance of 500 feet along a stream or to a point where distinct gradient changes occur. For further information see page M-14 of the board manual (only use the method for field measurements; do not use the mapping method).

Note: Streams with widths of twenty feet (20') or greater or lakes, ponds, or impoundments having a surface area of 1 acre or greater at seasonal low water, may be type 2 waters.

1-14-08

Forest Practices Application/Notification Addendum
DNR Trust Lands HCP Implementation Checklist for the Marbled Murrelet, 2014
North Puget Planning Unit Only

Refer to the DNR Trust Lands HCP Implementation Summary for the Marbled Murrelet, 2014 and North Puget Planning Unit (NPPU) memos dated 02/23/2007 and 06/12/2009. Marbled Murrelet GIS habitat and occupied site delineation is available at on the Quick Data Loader and State Uplands Viewing Tool titled "State Lands – Marbled Murrelet – HCP Policy".

1. Is the proposed Forest Practices activity within potential habitat, occupied site, Criteria 3 newly identified habitat or suitable habitat not available for release¹?
 - Yes, proposal is **inconsistent** with current HCP strategy. **Stop Proposed Activity** or document in Question #6 specifics of proposal and Forest Resources Division approval if intending to proceed.
 - No, not within suitable habitat not available for release, potential, occupied, or Criteria 3 newly identified habitat. Go to Question #2.

2. Is the proposed activity within releasable¹ suitable habitat according to the NPPU memo (dated 6/12/2009)?
 - Yes, document in Question #6 the WAU name, **total** suitable MM habitat acres allowed to be harvested within the WAU and the **total** acres to date of suitable MM habitat harvested within the WAU after this proposed harvest. Go to Question #3.
 - No, proposal is not within releasable suitable habitat. Go to Question #3.

3. Is the proposed activity located within unsurveyed Criteria 1 newly identified habitat that is within 0.25 miles of an occupied site, or unsurveyed Criteria 2 newly identified habitat?
 - Yes, proposal is **inconsistent** with the current HCP strategy. **Stop Proposed Activity** or document in Question #6 specifics of proposal and Forest Resources Division approval if intending to proceed.
 - No, go to Question #4.

¹ Some suitable habitat may be available for harvest (releasable) if 50% of the habitat will remain within the WAU and it is greater than 0.5 miles from an occupied site and identified per NPPU memo dated 6/12/2009. Criteria 1 habitat is: Habitat \geq 5 acres but \leq 10 acres with \leq 10 platforms per acre OR Habitat $>$ 10 acres but \leq 20 acres with \leq 5 platforms per acre. Criteria 2 habitat is: Habitat \geq 5 acres but \leq 10 acres with $>$ 10 platforms per acre OR Habitat $>$ 10 acres but \leq 20 acres with $>$ 5 platforms per acre OR Habitat $>$ 20 acres with \leq 15 platforms per acre. Criteria 3 is: Habitat \geq 20 acres with $>$ 15 platforms per acre.

4. Is the proposed activity located within surveyed and unoccupied Criteria 1 or 2 newly identified habitat, or unsurveyed Criteria 1 that is greater than 0.25 miles from an occupied site and is the activity only for operational access (roads or yarding corridors) through this habitat type?
- Yes, proposal is consistent with the current HCP. Timing restrictions are applied when operating within this habitat and remaining habitat is deferred from harvest. Consult with Region biologist/specialist for recommendations on minimizing platform tree removal. Document in Question #6 the type of operational access, but first go to Question #5.
 - No, go to Question #5.
5. Is the proposed harvest activity within ¼ mile of any marbled murrelet occupied site(s), Criteria 3 newly identified habitat or unsurveyed suitable MM habitat²?
- Yes, consult with Region biologist/specialist for recommendations on buffers and timing restrictions. Go to Question #6 and document type of buffer of occupied site or suitable habitat.
 - No, proceed with activity; go to Question #6 if any documentation is required.
6. This question or section is for additional information the checklist suggested you provide in previous questions or any additional information you think is relevant to the proposal. If you were able to answer the previous questions without a "Stop Proposed Activity" notification then your proposal is consistent with the HCP and may proceed. Otherwise, more documentation is required here. If varying from current HCP guidance, attach consultation agreement from Forest Resources Division and/or USFWS and discuss below.

Units 1 and 4 of the proposal are buffered 165 feet off of suitable marbled murrelet habitat. Timing restrictions will be applied to Unit 4 of the proposal as it lies within 0.25 mile of Criteria 3 newly-identified habitat. Timing restrictions will be implemented for activity associated with harvesting timber and/or road building. The timing restrictions will be in effect from April 1 through August 31, from 1 hour before to 2 hours after official sunrise, and 1 hour before to 1 hour after official sunset.

Units 3 and 5 of the proposal contain platform trees with linear connections to suitable marbled murrelet habitat. These trees have been marked as non-tradeable leave trees to remain on site following completion of the proposed timber harvest.

² "Unsurveyed suitable habitat" refers to potential habitat identified per the NPPU 2007 memo that has been field verified as suitable, but not yet surveyed.

**Forest Practices Application/Notification Addendum
DNR Proprietary HCP Implementation Checklist for the
Northern Spotted Owl, 2008 (all HCP planning units & OESF)**

Refer to the DNR Proprietary HCP Implementation Agreement for the NSO, 2008.

1. Is the Forest Practice activity within a NRF Management Area?
 Yes, Go to #2.
 No, Go to #6.
2. Is the Forest Practice activity within a designated 500-acre Nest Patch?
 Yes, No timber harvest allowed, harvest deferment of Nest Patches, refer to Substitution Agreement, Section I.A. **End Checklist.** Maintenance of existing roads is permitted. Describe road maintenance activity in Question #13.
 No, Go to #3.
3. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
 Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #4.
 No, Go to #4.
4. Is the SOMU where the Forest Practice activity is located, above the threshold of NRF habitat?
 Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall below the target amount. Please describe in Question #13; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even-age harvest and how many acres or percentage of NRF habitat will remain within the SOMU after harvest. Go to #13.
 No, Go to #5.
5. Is the Forest Practice activity within suitable submature habitat or better or "next best"?
 Yes, Ensure NRF habitat remains after completion of the harvest activity or that the activity will not increase the length of time for the target amount to reach a suitable habitat condition. Please describe in Question #13, type of activity, how habitat will be maintained or next best stands enhanced and what the final stand condition will be. Go to #13.
 No, Ensure that target amount of habitat within the SOMU will not take longer to achieve after activity. Please describe in Question #13 how management activity will maintain and/or achieve the NRF target amount. Go to #13.
6. Is the Forest Practice activity within a Dispersal or DFC Management Area?
 Yes, Go to #7.
 No, Go to #10.
7. Is the Forest Practice activity within 0.7 miles of a spotted owl nest site (status 1 or 2)?
 Yes, Apply timing restrictions; refer to Substitution Agreement, Section I. Go to #8.
 No, Go to #8.
8. Is the SOMU where the Forest Practice activity is located, above the threshold of dispersal habitat?
 Yes, Proceed with the activity, ensuring that habitat within the SOMU will not fall below the target amount. Please describe in Question #13; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even-age harvest and how many acres or percentage of dispersal habitat will remain within the SOMU after harvest. Go to #13.

- No, Go to #9.
9. Is the Forest Practice activity within suitable dispersal habitat or better or "next best"?
- Yes, Ensure dispersal habitat remains after completion of the harvest activity or that the activity will not increase the length of time for the target amount to reach a suitable habitat condition. Please describe in Question #13, type of activity, how habitat will be maintained or next best stands enhanced and what the final stand condition will be. Go to #13.
- No, Ensure that target amount of habitat within the SOMU will not take longer to achieve after activity. Please describe in Question #13 how management activity will maintain and/or achieve the dispersal target amount. Go to #13.
10. Is the Forest Practice activity located within the OESF?
- Yes, Go to #11.
- No, Go to #12.
11. Landscape planning has been initiated, but has it been completed?
- Yes, Proceed with the activity, ensuring that all commitments of the Landscape Plan are fulfilled. Please describe in Question #13; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even-age harvest and how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Go to #12.
- No, Proceed with the activity, ensuring that the total amount of habitat harvested since HCP implementation will not exceed the allowable amount as described within the substitution agreement, Section II. Please describe in Question #13; if the activity will be harvesting habitat or non-habitat, whether it is an enhancement activity or even-age harvest and how many acres or percentage of suitable habitat will remain within the SOMU after harvest. Go to #12.
12. Is the Forest Practice activity located within a Status 1 or 2 spotted owl management circle based on the WDFW database?
- Yes, Apply harvest timing restrictions to activities within the best 70-acre core around the site center; refer to Substitution Agreement, Section III. Include location of best 70-acre core on Forest Practices Map. Go to #13.
- No, Go to #13.
13. Provide any additional information or details requested from previous questions on the following lines. If no additional information is required, simply state "not applicable" below. Otherwise, include the SOMU name(s) when necessary if activity is within NRF or dispersal management areas or OESF and how habitat will be maintained or enhanced, etc. If varying from standard HCP guidance, attach concurrence/variance approval from Land Management Division and/or Federal Services and discuss below.

End checklist.

Not applicable

November 13, 2015

TO: John Moon, Forester

FROM: Lisa Egtvedt, Wildlife Biologist

SUBJECT: Wildlife Review of the Proposed Lotta Strands Timber Sale

This memo serves as documentation of a region biologist review of the proposed Lotta Strands Timber Sale in sections 1, 2, 3, 10, 11, and 12 of Township 28 North, Range 8 East, and section 35 of Township 29 North, Range 8 East. I conducted several field reviews of this proposal and adjacent areas, all unaccompanied, on 7/30/15, 8/13/15, and 10/16/15. All field visits were conducted with the sole purpose of "verifying" marbled murrelet habitat delineation, with some incidental observations made regarding stand conditions relative to wildlife habitat and possible leave tree recommendations.

Based on these site visits and a GIS review, I have the following input:

Unit 1

This unit was delineated by DNR technicians. I did not field-verify this particular unit due to: 1) a lack of platform trees (PFTs) found, 2) the description of the stand by the technicians, and 3) my observations within a nearby unit of the proposed Golfer timber sale, which likely has very similar stand conditions.

There is suitable murrelet habitat that is located to the north of this unit that was only partially surveyed (due to incomplete identification of the habitat at the time of the surveys). Due to this incomplete survey coverage, the habitat has been buffered from the unit, in compliance with the Interim Strategy for the Marbled Murrelet in the North Puget Planning Unit.

Unit 2

This unit was delineated by Jeremy Westra, a presales forester who has been trained to conduct murrelet habitat delineation. I did not field-verify this unit, either, due to similar reasons as for Unit 1. Based on observations that I made within Unit 3 (which is just to the south & across Marsh Creek from Unit 2), I was comfortable with Jeremy's findings (of no PFTs) within Unit 2.

Unit 3

This unit was also delineated by Jeremy Westra, and I conducted a field verification of his findings on 8/13/15 & 10/16/15. There are scattered individual PFTs, as well as some small patches of PFTs in this unit. None of these PFTs comprise suitable habitat polygons of five acres or greater, although four of them located in the northeastern portion of the unit have a linear connection with (just about 300 feet from) a suitable habitat polygon that is located to the east of the unit. This habitat is *not* newly-identified habitat. These four PFTs, along with most other

PFTs that are within the unit boundaries, have been marked as non-tradeable leave trees. A few PFTs not associated with habitat were not marked as such because they are located in likely cable yarding corridors.

The majority of the stand in this unit is fairly uniform, with little structure developed in the trees. The exceptions are occasional western hemlock trees with mossy branches and/or mistletoe witches' brooms, and a few larger RC with multiple leaders ("candelabra") or larger/mossier limbs than in the majority of the stand. The latter were primarily seen in the westernmost portion of the unit, near the northwestern boundary. Most of the witches' brooms seen in this stand are not very developed, but they are larger & more solid in the marked PFTs.

A patch of blowdown was observed on the top of a small "knoll" in the north-central portion of the unit, suggesting that this area should not have leave trees marked in it. I have been informed that the presales forester also noticed this, and no leave trees have been marked in this location. If any leave tree trading should be necessary during harvest operations, it is highly recommended that this area be avoided for placement of "trade" trees.

Unit 4

This unit was delineated by DNR technicians, and I conducted a field verification of their results on 7/30/15. There are a few scattered individual PFTs and one small patch of PFTs in the southeastern portion of the unit, none of which comprise a suitable habitat polygon of five acres or greater. These PFTs have been marked as non-tradeable leave trees where feasible. This unit was located so as to provide a buffer on some Criteria 3 (i.e., high-quality) newly-identified marbled murrelet habitat that is located to the north, northeast, and east of this unit. This habitat was initially delineated in association with the League Play and Reduction Timber Sales, although its western boundary was expanded slightly as a result of the delineation that was conducted for the current Lotta Strands proposal. Timing restrictions for marbled murrelets will be required for most of this unit (only the southwestern-most portion of the unit is not within ¼ mile of the habitat).

Unit 5

This unit was delineated by John Moon, another presales forester who has been trained to conduct murrelet habitat delineation. I conducted a verification visit to this unit on 10/16/15, and also made some field measurements to determine whether the westernmost PFT that John found in the unit is connected to (i.e., within 300 feet of) suitable habitat that is located to the west of this unit. I did find a linear connection between the habitat and this PFT, but the additional PFTs within the unit (of which there are only four) did not add a substantial area to the habitat polygon, but instead only a continued *linear extension* of PFTs. Because of past direction from Forest Resources Division regarding linear connections and/or extensions of PFTs (without any spatial representation of habitat), these PFTs do not have to be excluded from the proposal, but

instead should be (and have been) marked as non-tradeable leave trees, with small clumps of leave trees surrounding them, to aid in wind-firmness.

Unit 6

This unit was delineated by Jeremy Westra, and field-verified by me on 7/30/15. There are a number of PFTs within and adjacent to this unit, but they do not comprise a suitable habitat polygon of five acres or greater. Many of them are of marginal quality, as well (most of them are witches' brooms, with one being a rather exposed broken top). The PFTs that are located within the unit (primarily in the northern portion of it) have been marked as non-tradeable leave trees.

General Proposal Area

Following a GIS review of WDFW and DNR wildlife & habitat databases, I have determined that the nearest known occupied marbled murrelet site on DNR land is located approximately 2,100 feet to the northwest of Unit 3, and approximately 2,300 feet to the northwest of Unit 2. Due to these distances, timing restrictions and other mitigation measures for marbled murrelet occupied sites are not required or recommended for this proposal (i.e., only the restriction for Criteria 3 habitat adjacent to Unit 4 is required).

There was a northern goshawk nest site (with two alternate nests) located approximately 700 feet to the south of Unit 1 that was active in 2008-2011. This site was *apparently* abandoned following a timber harvest that came within about 200 feet of the active nest in 2011 (and within 100 feet of the other nest). Although two young were fledged from the nest that year, surveys conducted in 2012 & 2013 determined that this site was no longer active, and surveys in the surrounding area failed to determine if/where the pair may have moved to nest. I do have to note that during my 7/30/15 visit to Unit 6, I heard what sounded like juvenile goshawk begging calls quite a distance away to the north/northwest. When I was next able to make a field visit to this area, I conducted some broadcast surveys in the general area that I estimated the calls came from, with no response/detections as a result of the surveys. These surveys were conducted on 8/7/15, and were focused most closely around Unit 5 of this proposal.

With this history and uncertainty in mind, it should be noted somewhere in the contract language and the Notes to CA that ***if goshawks (or aggressively calling birds) are detected in the vicinity of this proposal, a region biologist should be contacted immediately.*** If an active goshawk nest is found within 0.5 mile of the proposal, it *may be recommended* to provide a timing restriction for timber harvest activities within this distance (or at the very least within 1,050 feet) from April 1 through July 15. This would be on a voluntary basis, in order to allow the pair to breed successfully during a given breeding season. However, it is *not required under the HCP*, as such restrictions are only *required* when a nest site is located in designated NRF management areas. *If a timing restriction were to be imposed, the same activity restriction might apply to a reduced*

area (within 650 feet of a nest) from July 16-August 31. If possible, it would be preferable to retain elements of mature conifer forest near the nest site for post-fledging through August 31.

Besides those mentioned above, no other occurrences of habitats or species of concern are reported within or near the proposal area.

Thank you for the opportunity to review and provide input for this proposal.



WASHINGTON STATE DEPARTMENT OF
Natural Resources
 Peter Goldmark - Commissioner of Public Lands

FPA/N No: 2814990

Effective Date: 2/26/2016

Expiration Date: 2/26/2019

Shut Down Zone: 658

EARR Tax Credit: Eligible Non-eligible

Reference: **Lotta Strands**

**Forest Practices Application/Notification
 Notice of Decision**

DECISION:

- NOTIFICATION Operations shall not begin before the effective date.
- APPROVED This Forest Practices Application is subject to the conditions listed below.
- DISAPPROVED This Forest Practices Application is disapproved for the reasons listed below.
- CLOSED Applicant has withdrawn FPA/N.

FPA/N CLASSIFICATION

Number of Years Granted on Multi-Year Request

Class II Class III Class IVG Class IVS 4yrs 5 yrs

Conditions on Approval / Reasons for Disapproval

THIS OPERATION IS SUBJECT TO THESE CONDITIONS:

No additional condition.

FOR YOUR INFORMATION:

Notify DNR Northwest Region Office (360-856-3500) 48 business hours before commencing timber harvest operations. Please provide the application number and legal description for your operation.

Issued By: Steven Huang *S. H.*

Region: Northwest

Title: Skykomish Forest Practice Forester

Date: 2/26/2016

Copies to: Landowner, Timber Owner and Operator

Issued in Person: Landowner, Timber Owner Operator By: *R. Utter*

Appeal Information

You have thirty (30) days to appeal this Decision and any related State Environmental Policy Act determinations to the Pollution Control Hearings Board in writing at the following addresses:

Physical address: 1111 Israel Rd. SW, Ste 301, Tumwater, WA 98501

Mailing address: P.O. BOX 40903, OLYMPIA, WA 98504-0903

Information regarding the Pollution Control Hearings Board can be found at: <http://www.eluho.wa.gov/>

At the same time you file an appeal with the Pollution Control Hearings Board, also send a copy of the appeal to the Department of Natural Resources' region office and the Office of the Attorney General at the following addresses:

Office of the Attorney General
Natural Resources Division
1125 Washington Street SE
PO Box 40100
Olympia, WA 98504-0100

And

Department Of Natural Resources
Northwest Region
919 N Township Street
Sedro-Woolley, WA 98284

Other Applicable Laws

Operating as described in this application/notification does not ensure compliance with the Endangered Species Act, or other federal, state, or local laws.

Hydraulic Project Approval (HPA) (Chapter 77.55RCW and WAC 222-50-020(2))

The Department of Fish and Wildlife (WDFW), as the jurisdictional agency issuing HPAs, has final authority for approving water crossing structures in Type S and F waters. WDFW continues to have authority on Type N waters and may exercise that authority on some Type N waters.

Notice: The HPA water crossing requirements supersede what is indicated on the FPA. Landowners are required by law to follow the provisions as directed on the HPA.

Transfer of Forest Practices Application/Notification (WAC 222-20-010)

Use the "Notice of Transfer of Approved Forest Practices Application/Notification" form. This form is available at region offices and on the Forest Practices Division website: <http://www.dnr.wa.gov/businesspermits/forestpractices>. Notify DNR of new Operators within 48 hours.

Continuing Forest Land Obligations (RCW 76.09.060, RCW 76.09.070, RCW 76.09.390, and WAC 222-20-055)

Obligations include reforestation, road maintenance and abandonment plans, conversions of forest land to non-forestry use and/or harvest strategies on perennial non-fish habitat (Type Np) waters in Eastern Washington.

Before the sale or transfer of land or perpetual timber rights subject to continuing forest land obligations, the seller must notify the buyer of such an obligation on a form titled "Notice of Continuing Forest Land Obligation". The seller and buyer must both sign the "Notice of Continuing Forest Land Obligation" form and send it to the DNR Region Office for retention. This form is available at DNR region offices.

If the seller fails to notify the buyer about the continuing forest land obligation, the seller must pay the buyer's costs related to continuing forest land obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forest land obligation against the seller.

Failure by the seller to send the required notice to the DNR at the time of sale will be prima facie evidence in an action by the buyer against the seller for costs related to the continuing forest land obligation prior to sale.

DNR affidavit of mailing:

On this day _____, I placed in the United States mail at Sedro-Woolley, WA, postage paid, a true and accurate copy of the attached document. Notice of Decision FPA # __2814__

_____ L Utgard _____
(Printed name)

(Signature)



**Request to Amend
 Forest Practices Application/Notification
 DNR's Decision**

Reference: Lotta Strands T. S.

Decision

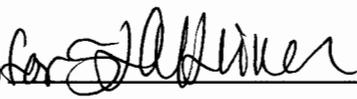
- Approved** This request for an amendment is approved and subject to the conditions listed below
- Disapproved** This request for an amendment is disapproved for the reasons listed below

Conditions on Approval/Reasons for Disapproval
 No additional conditions.

Appeal Information (RCW 76.09.090(3), WAC 222-46-030(4), and WAC 332-08-215 (3).

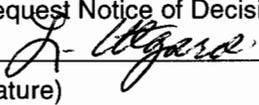
The Landowner, Timber Owner, or Operator has 15 calendar days from the Date of Service to request a Brief Adjudicative Proceeding for this **amendment which is a Notice to Comply for an authorized deviation**. Appeal requests must:

- Be in writing
- Include signature(s)
- Include the factual basis for the appeal and the issue to be adjudicated
- Sent to the Region Office at 919 N Township St, Sedro-Woolley WA 98284
- With a copy sent to the Department of Natural Resources, Forest Practices Division, PO Box 47012, Olympia, WA 98504-7012

Issued By: Steven Huang  Title: Forest Practice Forester

Copies Sent To: Landowner (via US Mail), Timber Owner (via US Mail), Operator (via US Mail), WDFW, DOE, Affected Indian Tribes, LGE, other: FPDM, FPCOORD,

DNR affidavit of mailing:

On this day 4-6-16, I placed in the United States mail at Sedro-Woolley, WA,
 (date) hand delivered (post office location)
~~postage paid~~, a true and accurate copy of this Amendment Request Notice of Decision for FPA # 2814990
L Utgard
 (Printed name) 
 (Signature)

E-mailed 4-5-16 L.U.



WASHINGTON STATE DEPARTMENT OF
Natural Resources

**Request to Amend Forest Practices
Application/Notification**

For DNR Region Office Use Only	
Region:	<i>NW</i>

Use this to request an amendment to an approved Western Washington, Eastern Washington, or Aerial Chemical Applications/Notifications

TYPE OR PRINT IN INK:

1. Landowner, Timber Owner, and Operator information

<u>Legal Name of LANDOWNER</u>	<u>Legal Name of TIMBER OWNER</u>	<u>Legal Name of OPERATOR</u>
Department of Natural Resources		
Mailing Address: 919 N Township Street	Mailing Address:	Mailing Address:
City, State, Zip Sedro-Woolley, WA 98284	City, State, Zip	City, State, Zip
Phone (360) 856-3500	Phone ()	Phone ()
Email: laurie.bergvall@dnr.wa.gov	Email:	Email:

2. Approved FPA/N Number 2814990

3. Describe the proposed amendment to the original FPA/N. You can attach revised pages of an FPA/N, or give specific details. Include a new Activity Map if you are proposing any changes to the original.

The PT-26 Road will be abandoned from station 0+00 to 8+40. This work will include removal of fill material from the draw located from station 8+00 to 8+40. Fill material removed from station 8+00 to 8+40 will be placed in the waste area located at station 4+00.

4. I affirm that the information contained herein is true, and understand that this proposed forest practice is subject to the Forest Practices Act and Rules, as well as all other federal, state or local regulations. Compliance with the Forest Practices Act and Rules does not ensure compliance with the Endangered Species Act or other federal, state or local laws. I understand this amendment is a request for a Notice to Comply for an authorized deviation as described in WAC 222-20-060.

5. *Laurie Bergvall*

Landowner's Signature

03/17/2016

Date

RECEIVED NW REGION

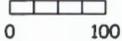
MAR 17 2016



WASHINGTON STATE
DEPT. OF NATURAL RESOURCES
NORTHWEST REGION

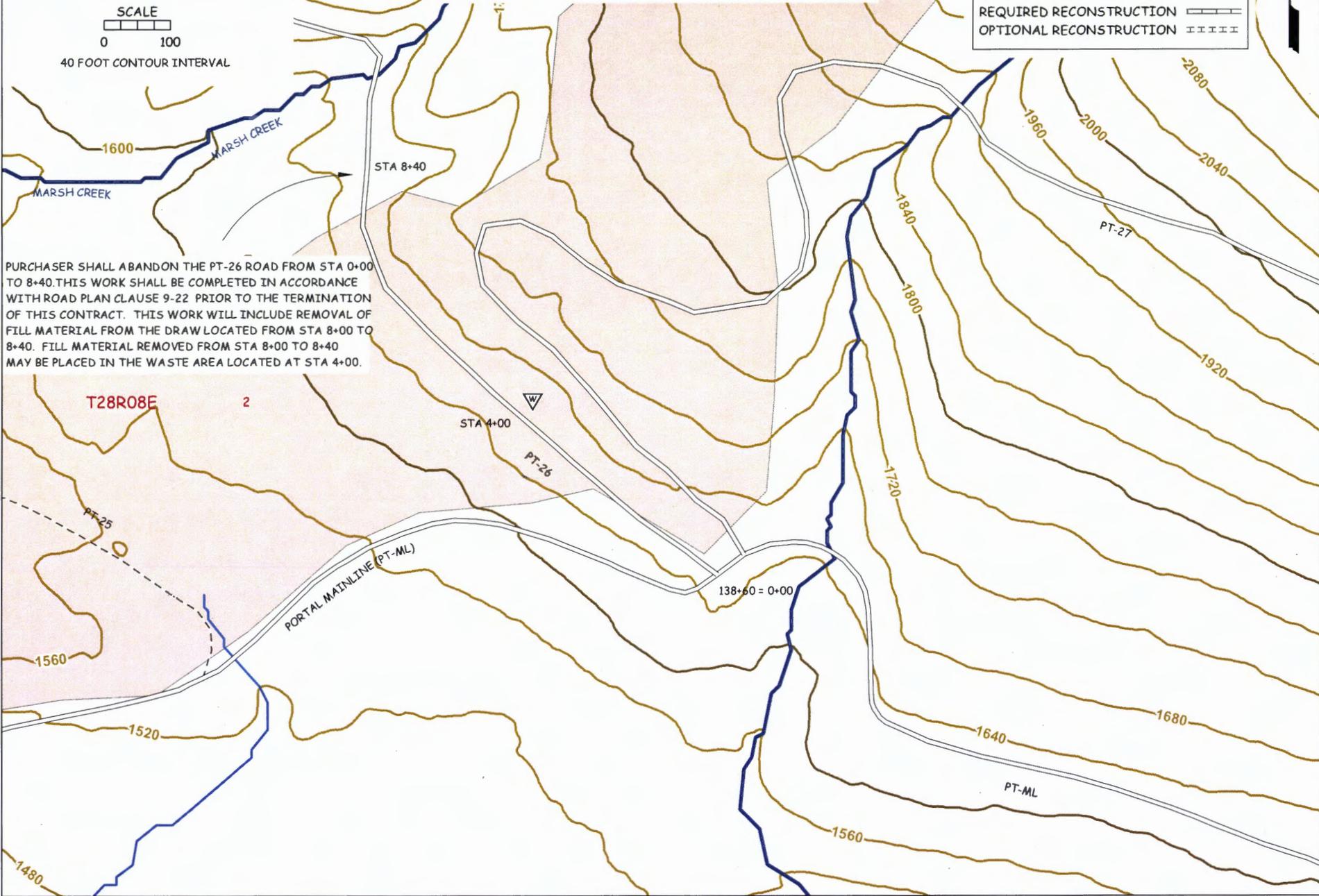
LOTTA STRANDS SCHEDULE R

SCALE



40 FOOT CONTOUR INTERVAL

LEGEND	
PRE-HAUL MAINTENANCE	-----
REQUIRED CONSTRUCTION	-----
OPTIONAL CONSTRUCTION	-----
REQUIRED RECONSTRUCTION	-----
OPTIONAL RECONSTRUCTION	-----



PURCHASER SHALL ABANDON THE PT-26 ROAD FROM STA 0+00 TO 8+40. THIS WORK SHALL BE COMPLETED IN ACCORDANCE WITH ROAD PLAN CLAUSE 9-22 PRIOR TO THE TERMINATION OF THIS CONTRACT. THIS WORK WILL INCLUDE REMOVAL OF FILL MATERIAL FROM THE DRAW LOCATED FROM STA 8+00 TO 8+40. FILL MATERIAL REMOVED FROM STA 8+00 TO 8+40 MAY BE PLACED IN THE WASTE AREA LOCATED AT STA 4+00.



WASHINGTON STATE DEPARTMENT OF
Natural Resources

**Forest Practices Application/Notification
NOTICE OF TRANSFER**

I DEPARTMENT OF NATURAL RESOURCES, hereby transfer my (our) rights, privileges, and obligations under this approved Forest Practices Application or Notification. I affirm that the information contained below is true and agree to comply with the rules authorized by the Forest Practices Act and to be bound by all conditions on the approved application or notification.

FPA/N Number: 2814990 Section(s): 1,2,3,10,11,12 Township: 28N Range: 08E
Section(s): 35 Township: 29N Range: 08E

Original Landowner (Signature): [Signature]

Original Landowner (Printed): Yvette Novano Date: 6, 6, 14

LOTTA STRANDS 30-093059

New Operator – Fill out this section <u>only</u> if you are changing or adding an operator	
Legal Name of New Operator: (Print) HAMPTON TREE FARMS, LLC Phone: 503-7693-8506 Email:	Mailing Address: PO BOX 2315 SALEM, OR 97308
New Operator Signature: <u>[Signature]</u>	Doug Cooper Vice President-Resources Date: <u>5/26/16</u>

New Landowner – Fill out this section <u>only</u> if you are transferring your FPA to a new landowner	
Legal Name of New Landowner: (Print)	Mailing Address:
Phone:	
Email:	
New Landowner Signature:	Date:

New Timber Owner – Fill out this section <u>only</u> if you are transferring your timber rights	
Legal Name of Timber Owner: (Print) HAMPTON TREE FARMS, LLC Phone: 503-7693-8506 Email:	Mailing Address: PO BOX 2315 SALEM, OR 97308
Forest Tax Reporting Account Number: (Contact Dept. of Revenue to get this number: 1-800-548-8829) 800-005-843	
New Timber Owner Signature: <u>[Signature]</u>	Doug Cooper Vice President-Resources Date: <u>5/26/16</u>

<input checked="" type="checkbox"/> Received by: <u>[Signature]</u>	Date: <u>6, 13, 16</u>
(DNR Forest Practices Staff Signature)	11/08/2005 Form QQ50