



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

Forest Practices Application/Notification  
**Office Checklist Page 1**  
Northwest Region

FPA/N #: 2814956  
 Received Date: 12-30-15  
 WDFW Concurrence Due Date: —  
 WDFW Concurrence Review Completed: —  
 Comments Due Date: 1-13-16  
 Decision Due Date: 1-29-16  
 FP Forester: SKY30  
 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: Dyno  
 WRIA: Snohomish WAU: Skykomish River  
 WRIA: \_\_\_\_\_ WAU: Upper Wallace River  
 Legal Description: pts 2, 3, 10, 11, 12, 13 - 27-9E  
 Activity Type: Harvest 171.5 ac Spray \_\_\_\_\_ ac Stream Crossing(s) 11  
 Road Construction 28,955 ft Road Abandonment 14,442 ft Rock Pit .8 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 J. U.  
**ADDITIONAL COMMENTS:**



WASHINGTON STATE DEPARTMENT OF  
**Natural Resources**

**Forest Practices Application/Notification  
Western Washington**

For DNR Region Office Use Only	
FPAN #:	284956
Region:	NW
Received Date:	12-30-2015

DYNO VRH & VDT #92303

**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**

**DEC 30 2015**

**3. Landownership information: See instructions**

- 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? See attached HCP**

- 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
2	27	09	E	-----	Snohomish
3	27	09	E	-----	Snohomish
10	27	09	E	-----	Snohomish
11	27	09	E	-----	Snohomish
12	27	09	E	-----	Snohomish
13	27	09	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: \_\_\_\_\_

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**, puncheon, 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
Cable Yarding			X	X
LWD Placement/Removal			X	
Beaver Dam Removal				
Felling and Bucking			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
Total construction = 16,015 feet				
Total reconstruction = 12,940 feet				
See FPA narrative for additional information.				

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)

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)

**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: See FPA Narrative  
 Right-of-way limits/road centerlines: See FPA Narrative  
 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 Van Hollebeke	Print Name:	Print Name:
Date:	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 thorough assessment of the historic and cultural resources in the proposal area has been conducted. This includes:**

- a review of existing records relating to known historic remnants,**
- site visits by a State Lands archaeologist,**
- site visits by Northwest Region cultural resource technicians and foresters,**
- a site visit by the Department of Archaeology and Historic Preservation (DAHP),**
- identification of new historic/cultural remnants, and**
- review by DAHP of the Dyno Timber Sale Site Protection Plan developed by a State Lands Archaeologist.**

**DAHP approved the Dyno Timber Sale Site Protection Plan and determined that there are no conflicts with any known archaeological or historical sites.**

**Additionally, the Tulalip Tribes, Stillaguamish Tribe of Indians and Snoqualmie Indian Tribe were contacted regarding cultural resource conflicts. No issues were raised.**

**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)).

<b>Crossing Identifier</b> (letter and/or number)	<b>Water Type</b>	<b>Planned Activity</b> (install, replace, remove, temporary, structure maintenance)	<b>Structure</b> (culvert, bridge, ford**, puncheon, arch, other)	<b>Proposed Size</b> (dimensions of structure)
<b>MY-04</b>				
123+30	5	Remove	culvert	N/A
<b>MY-0413</b>				
2+54	4	Install	culvert	54" x 40'
8+42	4	Install	culvert	36" x 40'
9+62	4	Install	culvert	36" x 40'
<b>MY-0419-01</b>				
3+56	5	Temp	culvert	24" x 36'
3+98	5	Temp	culvert	24" x 36'
5+72	5	Temp	culvert	24" x 36'
19+26	4	Temp	culvert	30" x 36'
<b>MY-0427</b>				
2+50	5	Remove	culvert	N/A
<b>CRT-36</b>				
16+98	4	Install	culvert	48" x 36'
22+62	4	Install	culvert	48" x 36'

**Question #17:**

**In order to achieve adequate deflection, cables may be suspended over type 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 felled and yarded away from all streams when possible.**

**Question #18:**

Any roads to be built then abandoned (also know as temporary road) 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
MY-04	Reconstruction*	12,880	85	3,260	3/31/2019
MY-0406	Construction	102	45	102	3/31/2019
MY-0413	Construction	1,140	55	--	--
MY-0418	Construction	371	60	--	--
MY-0418-01	Construction	298	45	298	3/31/2019
MY-0419	Reconstruction*	60	25	--	--
MY-0419-01	Construction	3,669	45	3,669	3/31/2019
MY-0422	Construction	840	45	-	-
MY-0425	Construction	3,022	65	3,022	3/31/2019
MY-0425-03	Construction	573	20	573	3/31/2019
MY-0427		--	--	330	3/31/2019
CRT-36	Construction	4,627	65	1,815	3/31/2019
CRT-3604	Construction	1,373	45	1,373	3/31/2019

\*Note – Reconstruction=construction. Reconstruction may meet the Forest Practices definition of maintenance.

**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
		DF-21		0.3
		MY-0417	0.3	
		MY-0422-02	0.3	
		MY-0425-01	0.3	
6 waste areas				
	Total = 5000			

**Question #21:**

Unit Number	Harvest Type	Biomass Harvest (Y/N)	Harvest Method	Acres to be Harvested	Volume to be Harvested (mbf)	Volume to be Harvested (biomass)	Volume to be Harvested (%)	Steepest Slope in Harvest Unit (%)
1*	Even-age	N	Ground-based/cable	36.2	1,150	--	95	45
2**	Even-age	N	Ground-based/cable	11.5	274	--	95	55
3***	Uneven-age	N	Ground-based/cable	18.9	458	--	25	35
4	Even-age	N	Ground-based/cable	11.8	533	--	95	50
5****	Even-age	N	Ground-based/cable	29.4	1,330	--	95	50
6	Even-age	N	Ground-based/Cable	7.7	135	--	95	30
<b>TOTAL</b>				<b>115.5</b>	<b>3,880</b>	<b>--</b>	<b>95</b>	<b>55%</b>
<p>* Includes approx. 1.2 ROW acres                  ** Includes approx. 1.4 ROW acres                  *** Includes approx. 2.0 ROW acres                  **** Includes approx. 2.6 ROW acres</p>								

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

**Question #29:**

**Harvest Boundaries:**

**White "Timber Sale Boundary" tags, BPA power line Right-of-Way, young forest stand and MY-04.**

**Clumped Wildlife Reserve Trees/Green Recruitment Trees:**

**Single and double painted blue bands on the bole of the tree, and yellow "Leave Tree Area" tags.**

**Right-of-Way limits/road centerlines:**

**Orange "Right of Way Boundary" tags, centerline marked with wooden stakes and orange flagging.**

**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, unless indicated otherwise on map; except those trees marked with two bands of blue paint which are non-tradeable.**

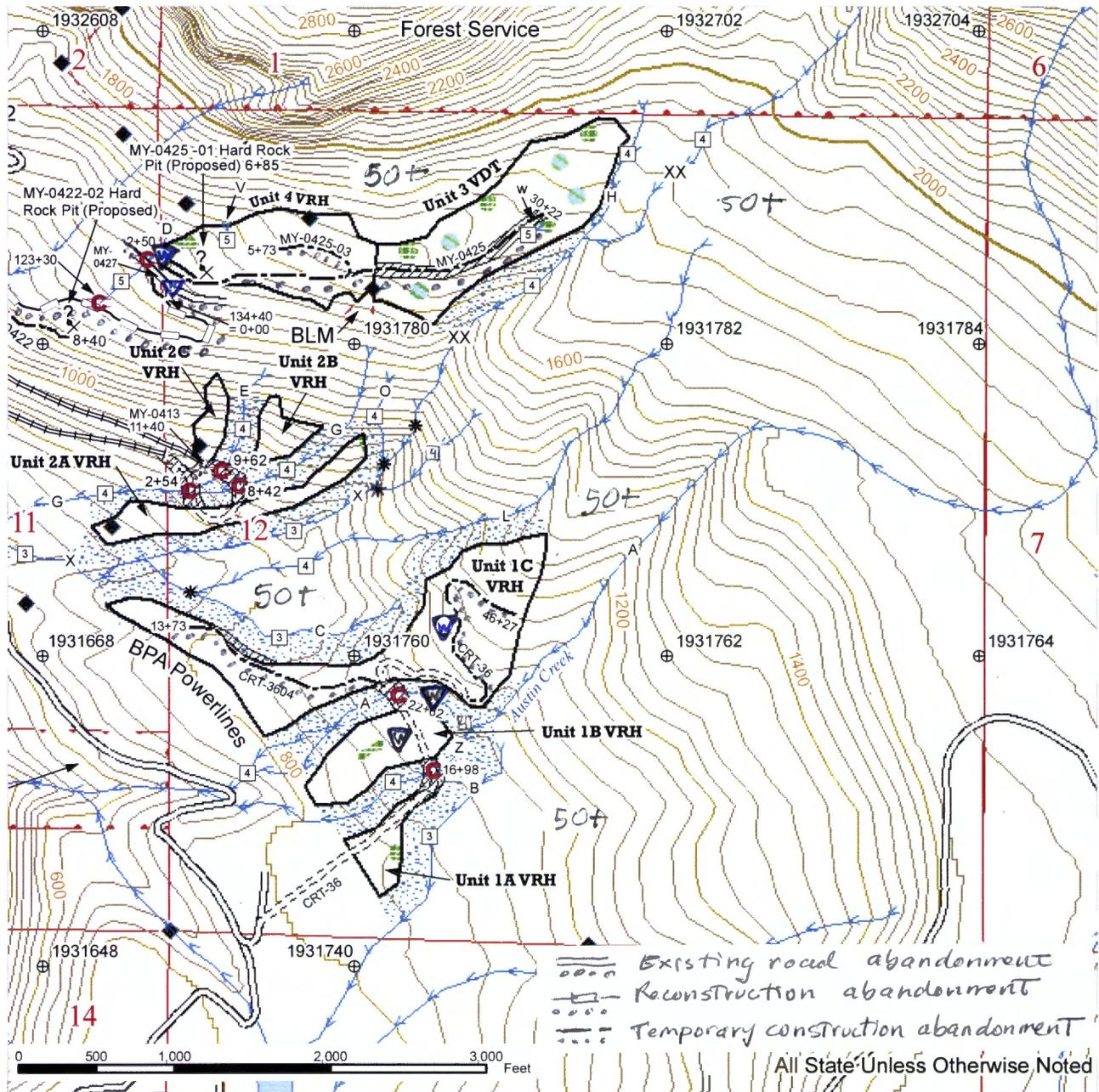
**The historic trail marked with pink flagging located in the eastern portion of Unit #5A shall be protected to the maximum extent practicable. Ground-based equipment crossings shall be kept to a minimum, and must be approved by the Contract Administrator prior to use.**

**The trail shall not be used as a yarding trail. Trees adjacent to the trail shall be felled and yarded away from the trail. Slash shall not be piled on the trail. The trail shall be left in the condition that exists prior to commencement of operations.**

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
 APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
 TOWNSHIP(S): T27R09E

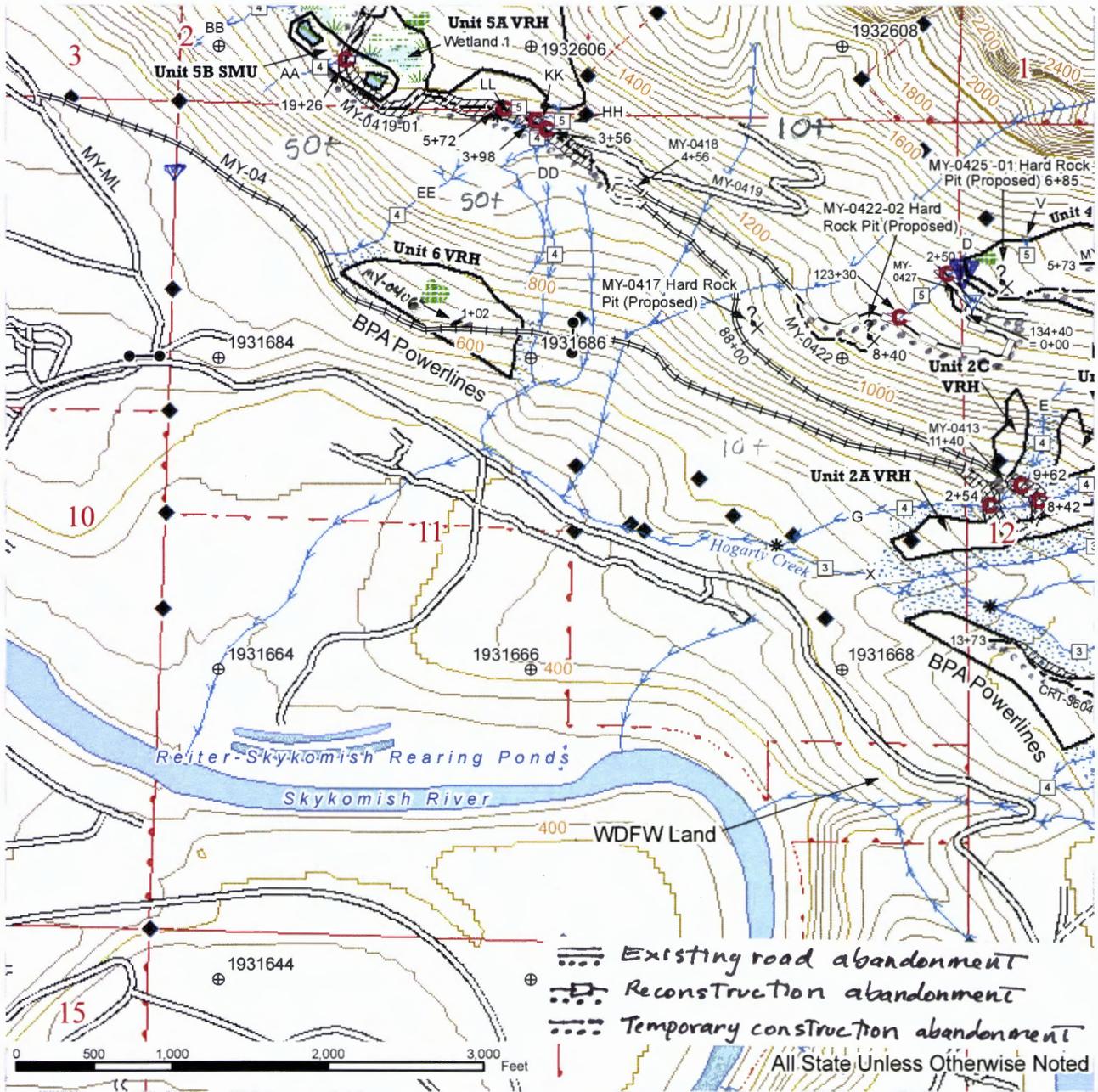


Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
Reconstruction=construction	Leave Tree Area	Tics - 2000' Interval
Reconstruction=construction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	A, B... Stream Identifier	Existing Rock Pit
	19XX Stand Origin Date	

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
 APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
 TOWNSHIP(S): T27R09E

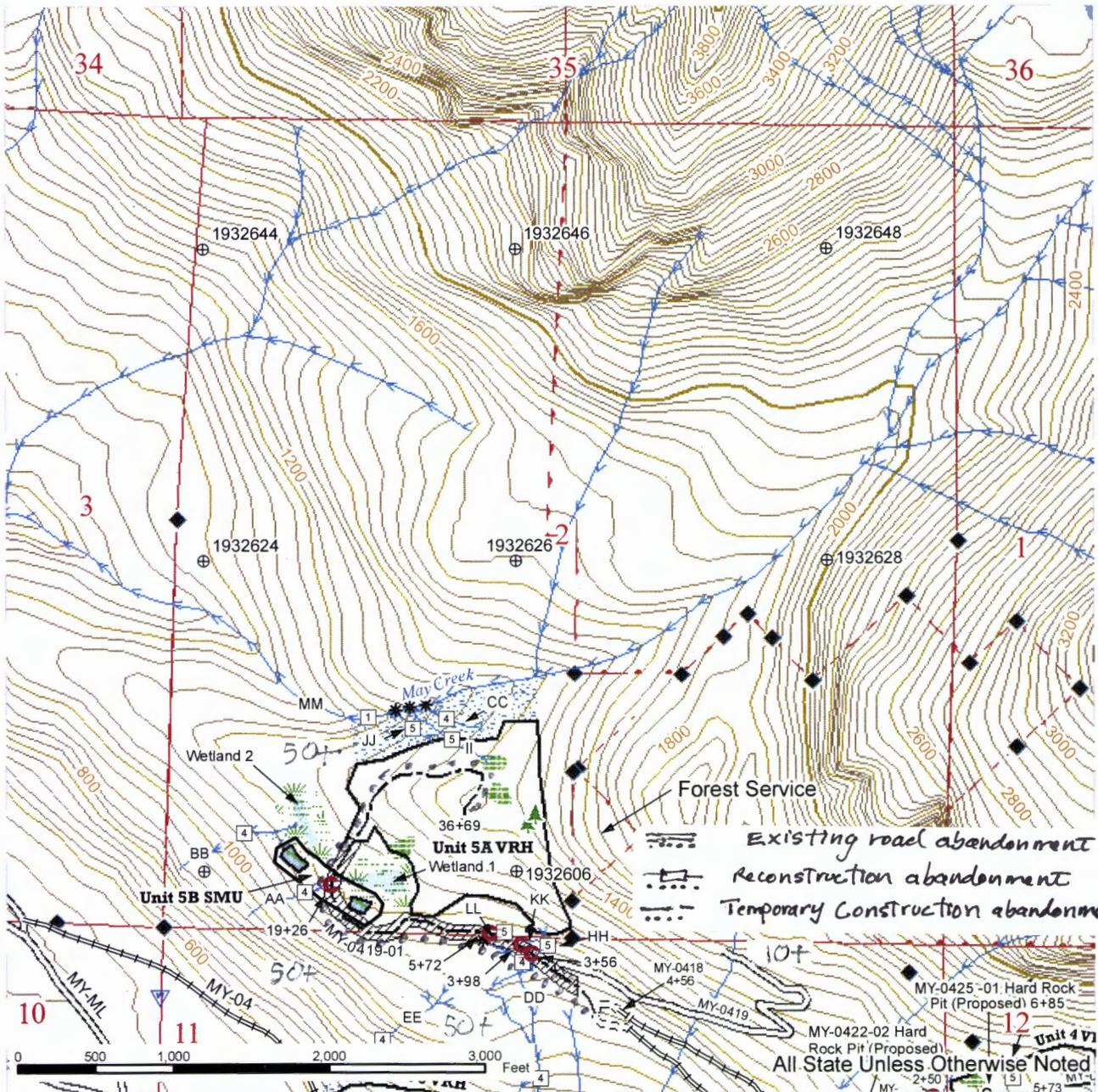


Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	Culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
Reconstruction=construction	Leave Tree Area	Tics - 2000' Interval
Reconstruction=construction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	Stream Identifier A, B...	Existing Rock Pit
	Stand Origin Date 19XX	

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
 APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
 TOWNSHIP(S): T27R09E



Forest Service  
 Existing road abandonment  
 Reconstruction abandonment  
 Temporary Construction abandonment

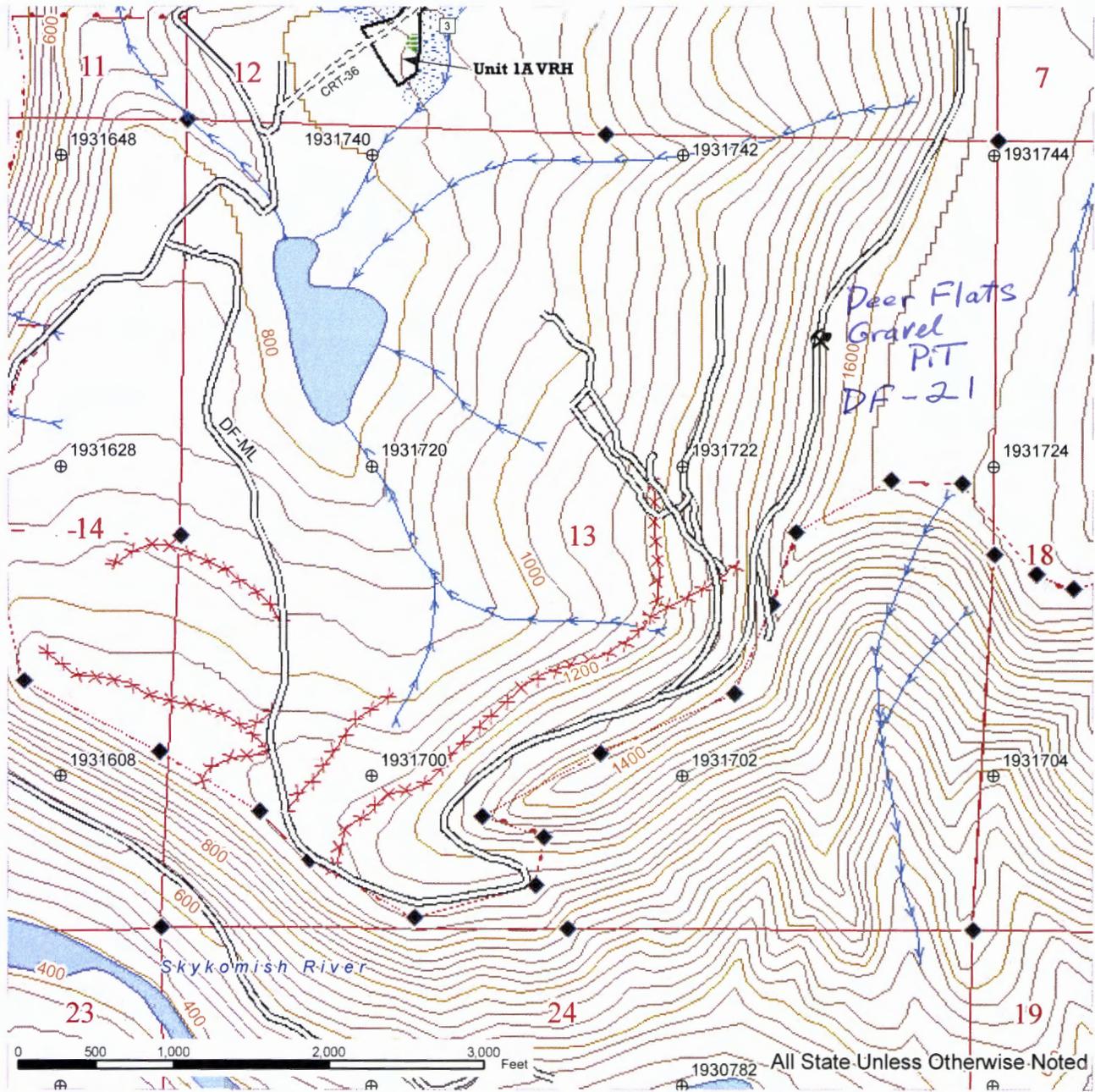
All State Unless Otherwise Noted

Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	Culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
Reconstruction=construction	Leave Tree Area	Tics - 2000' Interval
Reconstruction=construction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	A, B... Stream Identifier	Existing Rock Pit
	19XX Stand Origin Date	

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
TOWNSHIP(S): T27R09E



Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	Culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
Reconstruction=construction	Leave Tree Area	Tics - 2000' Interval
Reconstruction=construction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	A, B... Stream Identifier	Existing Rock Pit
	19XX Stand Origin Date	

Prepared By: jvan490

Creation Date: 8/18/2015

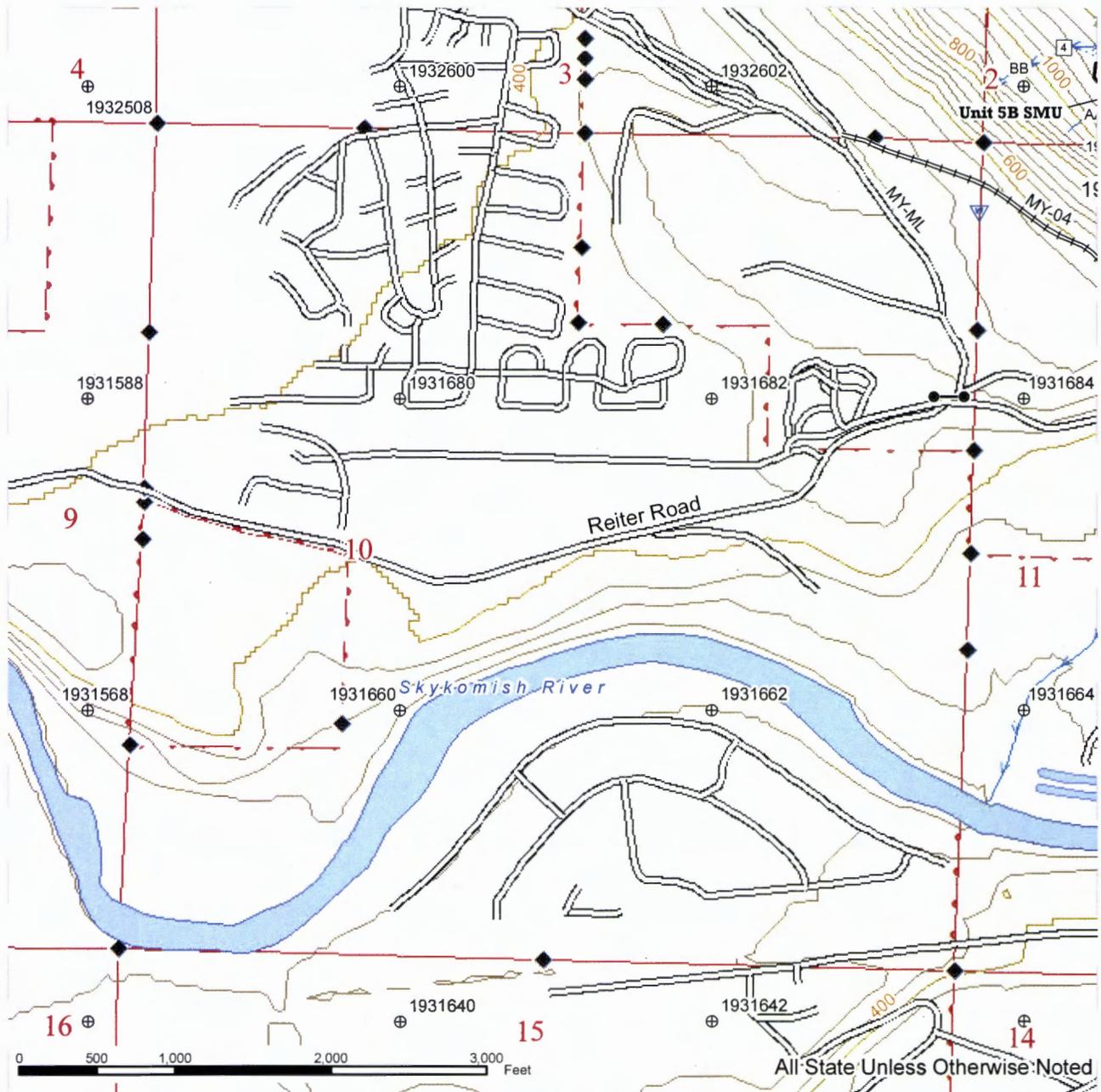
Modification Date: 9/16/2015

14956

# FOREST PRACTICES ACTIVITY MAP

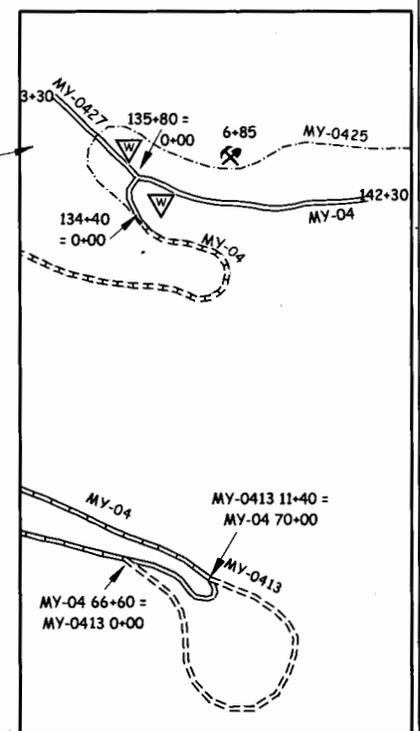
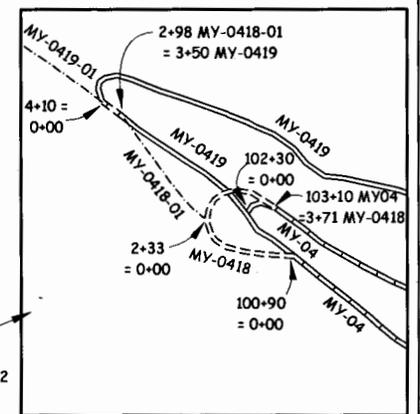
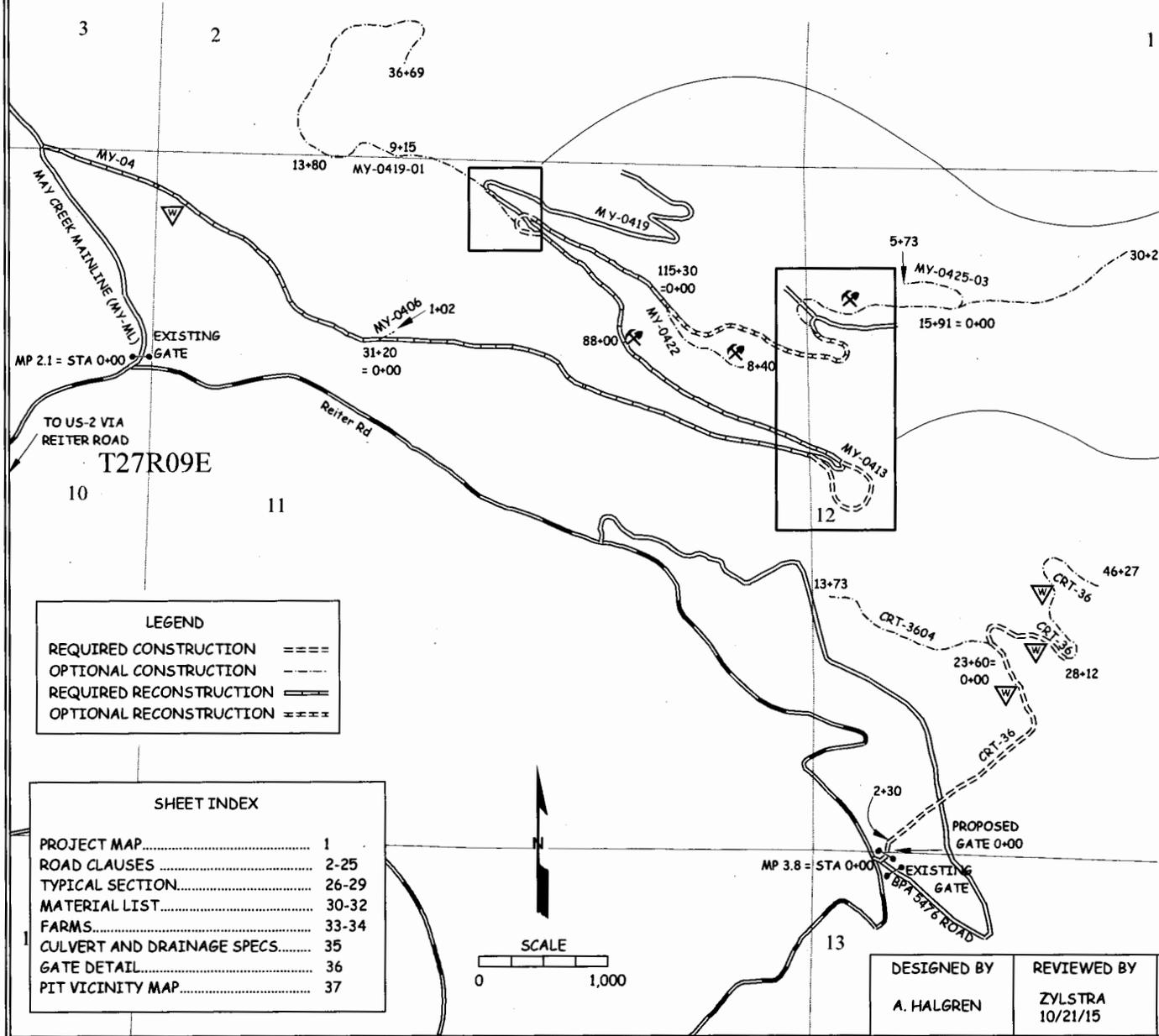
SALE NAME: DYNO  
 APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
 TOWNSHIP(S): T27R09E



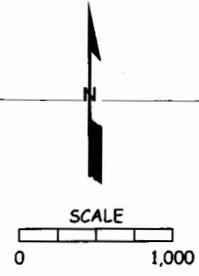
Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	Culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
<del>Requires</del> Reconstruction=construction	Leave Tree Area	Tics - 2000' Interval
<del>Requires</del> Reconstruction=construction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	Stream Identifier	Existing Rock Pit
	Stand Origin Date	

# ROAD PLAN AND SPECIFICATIONS #30-092303 DYNO TIMBER SALE



LEGEND	
REQUIRED CONSTRUCTION	=====
OPTIONAL CONSTRUCTION	-----
REQUIRED RECONSTRUCTION	===== -----
OPTIONAL RECONSTRUCTION	----- =====

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PROJECT MAP.....	1
ROAD CLAUSES.....	2-25
TYPICAL SECTION.....	26-29
MATERIAL LIST.....	30-32
FARMS.....	33-34
CULVERT AND DRAINAGE SPECS.....	35
GATE DETAIL.....	36
PIT VICINITY MAP.....	37



DESIGNED BY A. HALGREN	REVIEWED BY ZYLSTRA 10/21/15	APPROVED BY FIKE 10/22/15	PLAN DATE 9/14/2015	SHEET 1 OF 37
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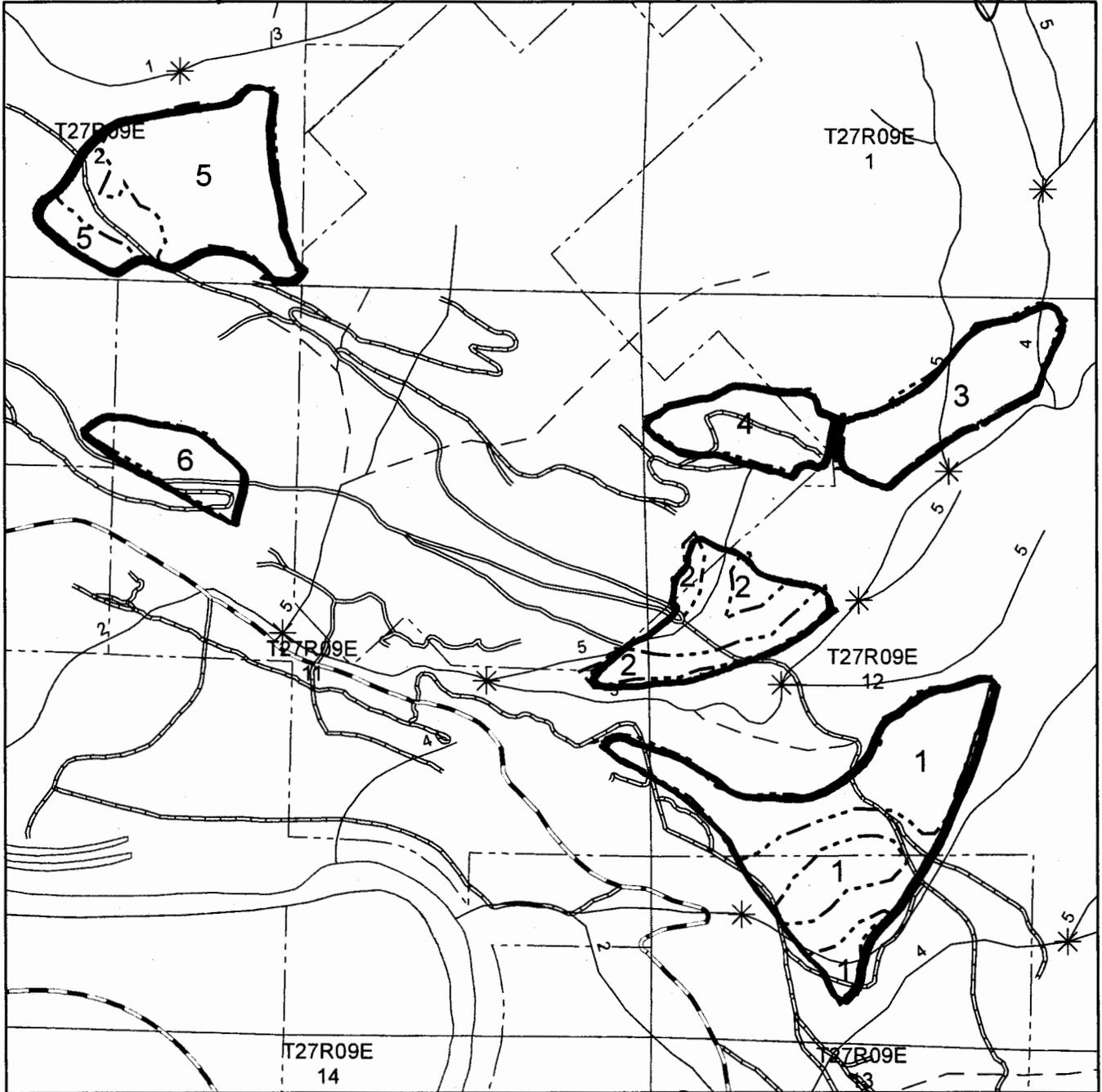
056

# Timber Sale Map

Timber Sale Name: DYNO  
Mapsheet 1 of 1

6-unit proposal

This map for unit outline purposes only.



Scale 1:13274

11056



ICN No. 135461	Legal Subdivision N 1/2	Section 2	TWP 27	RGE E/W 9E	Application / Notification #	Class
Landowner WADNR NW - John Van Hollebeke		Timber Owner same as landowner		Operator same as landowner		
Mailing Address 919 N Township St		Mailing Address		Mailing Address		
City, State (Province), Zip (Postal Code) Sedro-Woolley WA 98284		City, State (Province), Zip (Postal Code)		City, State (Province), Zip (Postal Code)		
Meeting Location on site		Telephone Conference <input type="checkbox"/>	Date Jun. 2, 2015	Time 0900	Region NW	
<b>Subjects Discussed:</b>						
Landowner representative requested on-site review of road/stream issue for the planned "Dyno" timber sale. This sale includes previously planned "Mantel" timber sale (ICN 135412 and ICN 135460). Issues discussed were stream typing and water pirating/relocation options, and inconsistencies with the WTMF within the proposed harvest unit.						
Site 1: Natural barrier for Hogarty Creek. Looked at proposed type 3/4 break at location where slopes greater than 45% were found. Discussed native fish use above the proposed break.						
Site 2: Austin Creek where it was pirated by a railroad grade. Looked at 2 options for this issue. Option 1 is to leave the stream as it currently is and treat both channels as type 4 streams. Option 2 is to re-establish the channel back to it's original channel, thus only treat this channel as type 4 stream.						
Finally, a discussion was had regarding the concerns the group had about the accuracy/reviewability of this and several other recently submitted WTMFs.						
<b>Decisions Made:</b>						
Site 1: It was agreed that the location of the 45% stream gradient is a type 3/4 break. The Tulalip Tribes are willing to do a protocol survey for the segment above the break to determine if resident fish are present. Until the survey is completed, the stream is to be treated as type 3 stream.						
Site 2: Landowner will determine which option to use. The culverts under the county road downstream of the two channels may affect which option they choose to go with. Redirecting the channel back to its original course may require the culvert under the County road to be up-sized.						
A meeting will be set up with the protocol survey contractor to discuss the concerns and issues the reviewers have with the accuracy/reviewability of the WTMFs being submitted.						
<b>PRINT</b> Participants' Names		<b>*SIGNATURES</b> of Participants		Representing	Copies Mailed	
John Van Hollebeke Amy Halgren Jason Teller Derek Marks Brett Shattuck Jamie Bails		<i>Steven Huang</i> <i>by: [Signature]</i>		landowner landowner landowner Tulalip Tribes Tulalip tribes DFW	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Position No. 2925	Signature & Title of DNR Representative Steven Huang Forest Practice Forester		Date Nov. 3, 2015	Work Phone (360)8563500		
* (Participant signature means Note is correct for subjects discussed and decisions made at the meeting.) Did not attend -- mail copies to: RPARM, FPDM, FPCOORD, SKY30 <input type="checkbox"/> Timber Owner <input checked="" type="checkbox"/> Landowner <input checked="" type="checkbox"/> Others: SNOCO, ECY, DFW, DOR, TULALIP, USFWS						

## Teller, Jason (DNR)

---

**From:** Brett Shattuck <bshattuck@tulaliptribes-nsn.gov>  
**Sent:** Wednesday, June 03, 2015 8:46 AM  
**To:** Teller, Jason (DNR); Moon, John (DNR); Bails, Jamie L (DFW); HUANG, STEVEN (DNR)  
**Cc:** Derek Marks; Neil Shea  
**Subject:** Dyno TS and Associated WTMFs  
**Attachments:** DynoWTMFmap.pdf

Hello All,

This email documents the observations and decisions made during our site visit yesterday to review the proposed "Dyno TS" and associated WTMFs. The primary topics of discussion were stream typing and water pirating/relocation options. We also discussed some inconsistencies with WTMF associated with the proposed timber harvest area, and potential ways to address these inconsistencies.

We first reviewed a potential natural fish passage barrier associated with a right bank tributary to Hogarty Creek (see attached map "Site 1"). It was determined that the existing ~45% slope for several hundred feet in this location does constitute a natural barrier to upstream fish passage. However, there is over 1,000ft of stream channel above this barrier that meets Type F physicals for fish habitat (>2' BFW and <16% gradient), and there is no evidence that the stream is seasonal (goes dry above the natural barrier). Therefore, the stream must be surveyed to confirm fish absence prior to a non-fish (Type 4) designation. In the absence of a survey, the stream should be considered fish habitat/Type 3 water and protected accordingly. We are currently available to conduct a survey of this tributary if you would like our assistance in this matter. We are available June 10, 11, 16, 17 and 19. **Our preferred date is June 17<sup>th</sup> at this time.**

We also reviewed a portion of Austin Creek that was historically pirated down a railroad grade, and now the majority of flow is directed north of the historic channel location (see attached map "Site 3"). It appears that the historic channel is very similar in elevation to the current stream location, and avulsion into the historic channel in the near term is very possible. We determined that there are currently two options available regarding this stream and associated protection requirements:

1. If the stream is left as currently configured, both the current stream location and the historic/natural channel location should be protected as Type 4 streams.
2. Alternatively, the existing through cut could be re-buried/blocked to restore the stream to its historic channel location. In this case, only the historic/reestablished channel location would require protection. However there are downstream crossings of the historic channel owned by the County and utilities, and these would have to be addressed prior to reestablishing the stream in its historic channel.

Prior to and during the site visit, several concerns were raised regarding the accuracy/reviewability of several WTMFs that have been recently submitted within and adjacent to the proposed harvest area. It is evident, based on GPS determined stream locations from WDNR State Lands staff that the stream locations shown in the WTMFs (largely similar to the current State Lands hydrography layer) are substantially inaccurate (up to 1,000ft in some locations; see attached map). This level of inaccuracy is unacceptable and runs counter to the main purpose of the WTMF process; to accurately memorialize stream types and locations. Furthermore, the lack of sufficient survey data and inability to find field evidence of stream surveys (Type Break locations, etc.), makes meaningful review very difficult or impossible. Based on these concerns, **we do not concur with the proposed WTMFs.** Prior to any resubmittal, a substantial effort should be made to accurately map stream locations, and provide sufficient information to review proposed Type break locations.



ICN No. 135460	Legal Subdivision N 1/2	Section 2	TWP 27	RGE E/W 9E	Application / Notification #	Class
<b>Landowner</b> WADNR NW - John Van Hollebeke		<b>Timber Owner</b> same as landowner			<b>Operator</b> same as landowner	
Mailing Address 919 N Township St		Mailing Address			Mailing Address	
City, State (Province), Zip (Postal Code) Sedro-Woolley WA 98284		City, State (Province), Zip (Postal Code)			City, State (Province), Zip (Postal Code)	
Meeting Location on site		Telephone Conference <input type="checkbox"/>	Date Jan. 27, 2015	Time 0900	Region NW	

**Subjects Discussed:**

Correction to ICN 135412. Regarding the discussion of several type 5 stream and sideslope seeps that were being captured by an existing old "orphaned?" road that crosses into a type 4 stream. It was mistakenly entered into the ICN as a type 3 stream.

**Decisions Made:**

The stream should be entered as a type 4 stream.

<b>PRINT</b> Participants' Names	<b>*SIGNATURES</b> of Participants	Representing	Copies Mailed
John Van Hollebeke Amy Halgren Jason Teller Derek Marks Neal Shea	<i>Steven Huang</i> Forest Practice Forester	landowner landowner landowner Tulalip Tribes Tulalip tribes	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Position No. 2925	Signature & Title of DNR Representative Steven Huang Forest Practice Forester	Date Nov. 3, 2015	Work Phone (360)8563500

**\* (Participant signature means Note is correct for subjects discussed and decisions made at the meeting.)**

Did not attend -- mail copies to: RPARM, FPDM, FPCOORD, SKY30

Timber Owner  Landowner  Others: SNOCO, ECV, DFW, DOR, TULALIP, USFWS

E-MAILED 11-3-15



ICN No. 135412	Legal Subdivision N 1/2	Section 2	TWP 27	RGE E/W 9E	Application / Notification #	Class
<b>Landowner</b> WADNR NW - John Van Hollebeke		<b>Timber Owner</b> same as landowner			<b>Operator</b> same as landowner	
Mailing Address 919 N Township St		Mailing Address			Mailing Address	
City, State (Province), Zip (Postal Code) Sedro-Woolley, 98284		City, State (Province), Zip (Postal Code)			City, State (Province), Zip (Postal Code)	
Meeting Location on site		Telephone Conference <input type="checkbox"/>	Date Jan. 27, 2015	Time 0900	Region NW	

**Subjects Discussed:**

Landowner representative requested on-site review of road /stream issues for the planned "Mantel" timber sale. Water from a type 5 stream and sideslope seeps is currently being captured by an existing old "orphaned?" road that crosses into a type 3 stream. Landowner wished to determine how to treat the captured waters for the planned timber sale. Portion of the road is planned to be reconstructed for the duration of the timber harvest and abandoned after timber harvest/reforestation.

We looked at locations where the water would have flowed if not intercepted by the old road grade. Landowner is proposing to install culverts at those locations to redirect the waters back to their original channels. We also discussed adding additional cross drains near seeps to take the waters across the road as close to the seeps as possible.

As the waters were flowing during the site visit, landowner will have to determine if the original streams were type 4 or 5 streams and buffer as required in their HCP.

**Decisions Made:**

Waters from streams and seeps captured by the road need to be redirected back into their original channels as soon as possible. Culverts proposed to direct waters back to their original channels appear to be sited correctly. Additional culverts may be needed to ensure waters from seeps are directed across the road as required. The existing road that crosses the type 3 stream will have to be treated to prevent any direct entry/delivery of intercepted waters into the fish stream.

Another site visit /review will be required once the road plan is finalized and the rest of the harvest unit is marked and posted.

PRINT Participants' Names	*SIGNATURES of Participants	Representing	Copies Mailed
John Van Hollebeke		landowner	<input type="checkbox"/>
Amy Halgren		landowner	<input type="checkbox"/>
Jason Teller		landowner	<input type="checkbox"/>
Derek Marks		Tulalip Tribes	<input type="checkbox"/>
Neil Shea		Tulalip tribes	<input type="checkbox"/>

Position No. 2925	Signature & Title of DNR Representative Steven Huang Forest Practice Forester <i>Steven Huang, DNR</i>	Date Feb. 18, 2015	Work Phone (360)8563500
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\* (Participant signature means Note is correct for subjects discussed and decisions made at the meeting.)

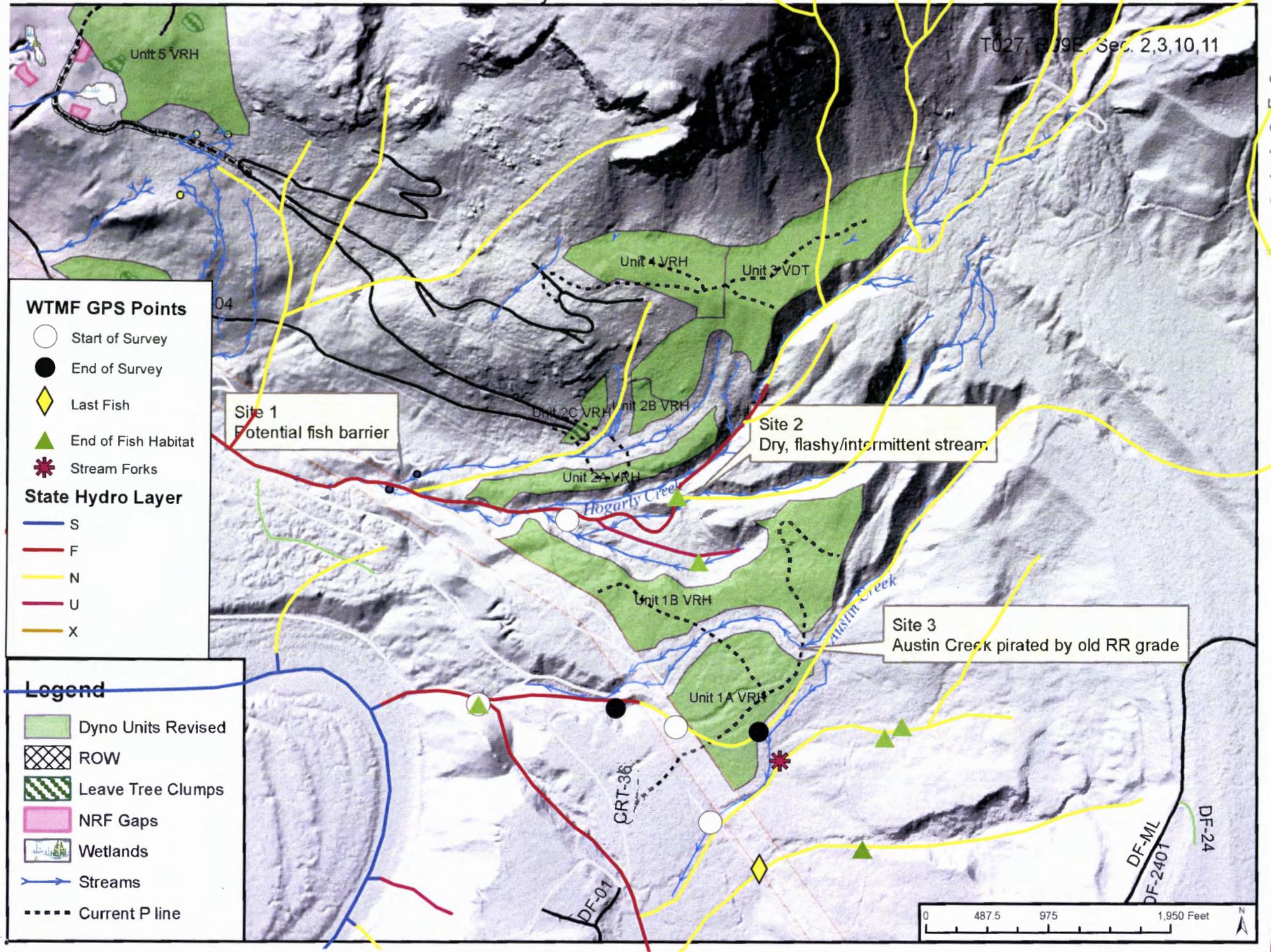
Did not attend -- mail copies to: RPARM, FPDM, FPCOORD, SKY30

Timber Owner  Landowner  Others: SNOCO, DOE, DOFW, DOR, TULALIP

# Dyno Timber Sale

T027, R09E, Sec. 2,3,10,11

1 4 9 5 6



### WTMF GPS Points

- Start of Survey
- End of Survey
- ◇ Last Fish
- ▲ End of Fish Habitat
- ✱ Stream Forks

### State Hydro Layer

- S
- F
- N
- U
- X

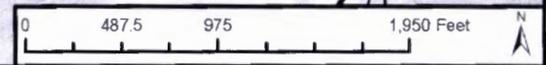
### Legend

- Dyno Units Revised
- ▨ ROW
- ▨ Leave Tree Clumps
- NRF Gaps
- Wetlands
- Streams
- ⋯ Current P line

Site 1  
Potential fish barrier

Site 2  
Dry, flashy/intermittent stream

Site 3  
Austin Creek pirated by old RR grade

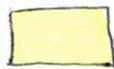


**Slope Stability Informational Form  
Forest Practices Application/Notification**

**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):  
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: 3/9/2015
  
5. Person(s) that conducted field review:
 

	John Moon, John VanHollebeke	NRS1
	Name	Title/position
	John McKenzie - Licensed Engineering Geologist	FP "Qualified Expert"
	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:  
Features were identified based on Forest Practices rules. Boundaries were determined by the field foresters and a DNR State Lands Geologist. The boundaries along rule-identified features were determined by identifying slope breaks associated with the features and leaving one canopy width between the slope break and the boundary.
  
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.**

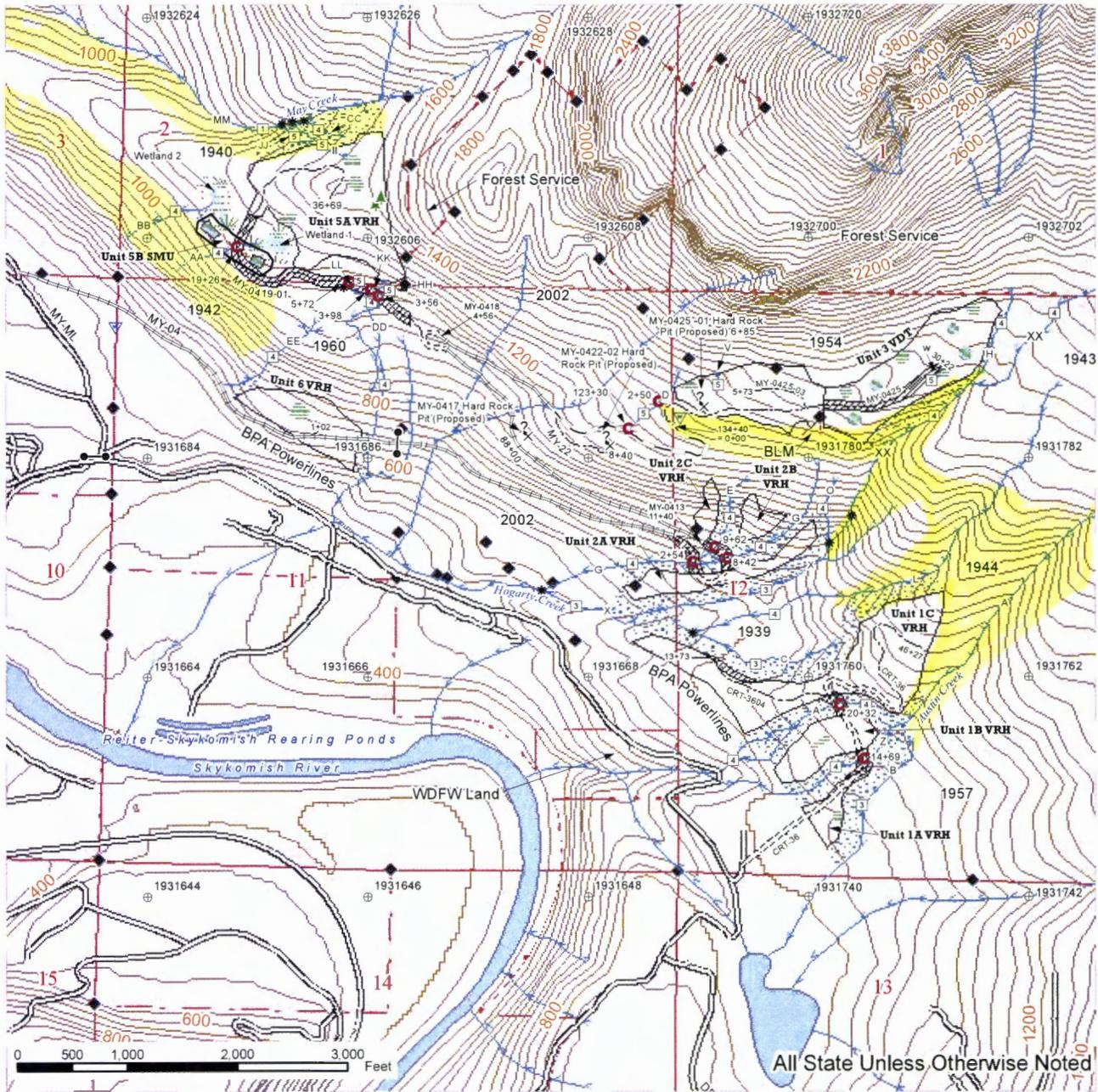


- AREA FIELD REVIEWED BY GEOLOGIST

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
APPLICATION #: Not Defined.

COUNTY(S): SNOHOMISH  
TOWNSHIP(S): T27R09E



All State Unless Otherwise Noted

Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gate
Required Reconstruction	Leave Tree Area	Tics - 2000' Interval
Optional Reconstruction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	A, B... Stream Identifier	Existing Rock Pit
	19XX Stand Origin Date	



**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
Skykomish River - sub-basin 2*					

- 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).

**\*Hydrologic Maturity in the ROS zone**

Sub-basin 2 of the Skykomish River WAU has less than one-third of the total sub-basin acreage in the ROS zone; therefore it will not be managed for ROS.

Total Skykomish River Sub2 acres: 4,628

Total Skykomish River Sub2 ROS acres: 1,423 (30.75%)

**Wetland Management Zones:** There are two forested wetlands, which both have 100-foot no-harvest buffers. No harvest activities are occurring within the wetland buffers.

**Riparian Management Zones:** There is one Type 1 water (May Creek); it is currently designated as a shoreline of the state. This water will receive a 200-foot no-harvest buffer. Type 3 and Type 4 waters will receive buffers as shown on the attached table. All buffers were measured from the outer edge of the 100-year floodplain. No wind buffers were applied. Road construction will occur in Type 4 RMZs. All other RMZ areas are no-harvest, except within Unit 3.

In Unit 3, one acre of Type 4 RMZ is being thinned from below with skips and gaps. Additionally in this RMZ, 5 large trees have been designated to be cut and felled toward the stream for large woody debris.

Type 5 waters will receive buffers as shown on the attached table. Trees are to be felled and yarded away perpendicular from streams where feasible.

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

<b>Stream Segment Identifier or Wetland Identifier</b>	<b>Water Type or Wetland "forested or open water"</b>	<b>Site Class FP Base Map / Other source</b>	<b>Stream Width (feet) or Wetland Size</b>	<b>Is there a CMZ?</b>	<b>Total Width of RMZ/WMZ FP width / Actual width (feet)</b>	<b>Wind Buffer?</b>
A (Austin Creek)	4	II	>2	No	50 / 100	--
B	3	II	>2	No	170 / 181	No
C	3	II	>2	No	170 / 181	No
D	5	II	<2	No	0 / 30-ft Equipment Limitation Zone	--
E	4	II	>2	No	50 / 100	--
G	4	II	>2	No	50 / 100	--
H	4	II	>2	No	50 / 100	--
L	4	II	>2	No	50 / 100	--
O	4	II	>2	No	50 / 100	--
V	5	II	<2	No	0 / 30-ft Equipment Limitation Zone	--
W	5	II	<2	No	0 / 30-ft Equipment Limitation Zone	--
X (Hogarty Creek)	3	II	>2	No	170 / 181	No
XX (Hogarty Creek)	4	II	>2	No	50 / 100	--
Z	4	II	Old Austin Creek Drainage	No	50 / 100	--
AA	4	III	>2	No	50 / 100	--
BB	4	III	>2	No	50 / 100	--
CC	4	III	>2	No	50 / 100	--
DD	4	III	>2	No	50 / 100	--
EE	4	III	>2	No	50 / 100	--
HH	5	III	<2	No	0 / In Right-of-way	--
II	5	III	<2	No	0 / 30-ft Equipment Limitation Zone	--
JJ	5	III	<2	No	0 / 30-ft Equipment Limitation Zone	--
KK	5	III	<2	No	0 / In Right-of-way	--
LL	5	III	<2	No	0 / In Right-of-way	--
MM (May Creek)	1	III	>20	No	140 / 200	No
Wetland 1	Forested	III	0.85 acres	N/A	0 / 100	--
Wetland 2	Forested	III	0.5 acres	N/A	0 / 100	--

## DNR Trust Forestland HCP Water Typing Key

### ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID \_\_\_D, V, W, HH, II, JJ, KK, LL,

DATE 8/13/15

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

## DNR Trust Forestland HCP Water Typing Key

### ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID \_\_\_ A, E, G, H, L, O, Z, AA, BB, CC, DD, EE, XX

DATE \_\_\_ 8/13/15 \_\_\_\_\_

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

## DNR Trust Forestland HCP Water Typing Key

### ADDENDUM TO INSTRUCTIONS FOR COMPLETING THE FOREST PRACTICE APPLICATION

STREAM(S) ID \_\_\_ B, C, X

DATE 8/13/15

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 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 deferral 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.**

All of the 115.5-acre proposal is located within the Wallace River SOMU NRF Management Area. This SOMU is below the threshold of NRF habitat. 103.7 acres of the proposal are located in NRF-managed lands. 19.4 acres of the proposal are located in NRF "Next-Best" lands. The remaining portion in NRF-managed land is in non-habitat. VRH harvest is proposed in the non-habitat, and silvicultural enhancement activities (VDT and small gap creation) are proposed in the "Next Best" stands. The intent of these activities is to speed up the development of suitable habitat conditions for northern spotted owls, based on criteria provided in Procedure 14-004-120. See Biologist notes for additional information.

**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 release<sup>1</sup>?
  - 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 releasable<sup>1</sup> 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.

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<sup>1</sup> 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 habitat<sup>2</sup>?
- 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.

Does not apply.

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

**August 28, 2015**

**TO:** John Van Hollebeke, Forester

**FROM:** Lisa Egtvedt, Wildlife Biologist

**SUBJECT:** Wildlife Review of the Proposed Dyno Timber Sale

This memo serves as documentation of a region biologist review of the proposed Dyno Timber Sale in sections 2, 11, and 12 of Township 27 North, Range 9 East. I conducted several field reviews of this proposal and adjacent areas, accompanied by two different presales foresters for different portions of the proposal area (when they were being planned as separate timber sales).

On 12/17/14 I was accompanied by John Van Hollebeke to Unit 5B and adjacent to Unit 5A (and to other units that were being considered for the "Mantel" timber sale, which have since been dropped). On 1/2/15 I was accompanied by John Moon to Units 3 & 4. On 5/27/15 I was accompanied by John Van Hollebeke to conduct cave assessments of some old mine adits located in the vicinity of Units 5A & 6. I have not seen Units 1, 2, or 6, which were added to the proposal following these field visits. I have been informed that these units do not contain any special habitat features that warranted a field review by a biologist.

The primary focus of my field visits on 12/17/14 & 1/2/15 was to assess the stands for potential silvicultural enhancement activities intended to speed up the development of suitable habitat characteristics for spotted owls (in stands determined to be "Next Best" on designated Nesting, Roosting, Foraging land). During the 1/2/15 visit I also evaluated some forested and non-forested talus fields, all of which have been bounded out of the timber sale units (specifically, to the north of Units 3 & 4. As mentioned before, the 5/27/15 visit was conducted in order to assess several old mine adits in the context of the draft cave procedure.

Consultation has been conducted with the HCP section of the Forest Resources Division, via memo, in order to implement the draft cave procedure, with a variance (approved by the Region Manager, as required) to build a temporary road closer to one of the caves than what is recommended in the procedure. Consultation via memo has also been conducted in order to build new road through a NRF "Next Best" stand (see "Unit 5" below for more details).

The proposed units and surrounding areas have been field-delineated for marbled murrelet habitat by John Moon, a presales forester who has been trained to conduct murrelet habitat delineation. Only a few platform trees were identified in the vicinity of Unit 5B, with none found within any of the units. Although I did not conduct an official "verification" visit following this delineation, my observations of the units that I visited were such that I am confident that there is no suitable habitat (and very few individual platform trees) within these stands.

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

### Unit 3

This unit is located in a NRF "Next Best" stand, and is proposed for a variable density thinning, with four ¼-acre "gaps" (small areas of variable retention harvest, VRH), as well as four ¼-acre "skips" (small areas where no harvest will occur) interspersed throughout the unit. The "skips" have been placed so as to protect relatively unique features such as snags, large down wood, large and structurally unique trees, riparian and wet areas. Gaps have been located in areas that have relatively homogeneous stand conditions, and which lack the features mentioned above. The total acreage of skips and gaps is two acres, which represents 10% of the total unit acreage, below the allowable percentage of 15%. The removal to occur in the gaps has been factored into the residual stand conditions that have been projected for the silvicultural prescription for this unit. I have reviewed the prescription and the resulting stand conditions (modeled and projected out 100 years in FVS), and have approved this approach for developing suitable habitat conditions for northern spotted owls, based on criteria provided in Procedure 14-004-120.

During the field review of this unit, no special habitat features were observed within the unit. Some notable snags and large black cottonwood trees were GPS'd to the east of the unit, when that area was being considered as part of the proposal. The stand within the unit is comprised of relatively small, dense trees, with only small downed wood and no snags.

### Unit 4

This unit is located on DNR land that was acquired after NRF and "Next Best" stands were designated, so it does not have a NRF role assigned to it. Therefore, this unit is proposed for a variable retention harvest. It is comprised of a stand of larger trees, with more spacing and occasional openings, snags (though most are "punky"), and some larger down wood. One might think that this stand would be better suited as "Next Best", but since it was not originally considered during "Next Best" designation, it is available for VRH.

Because this stand is so close to USFS land and a "Next Best" stand that is clearly lacking large down wood, I recommended against cedar salvage in Unit 4, which was being considered as part of the proposal. On this particular landscape, with spotted owl habitat goals, coupled with a glaring lack of large wood in the designated NRF stands, I felt that it would be prudent to retain the existing large wood in the VRH unit. I also recommended marking some leave tree areas around some of the large down wood, in order to protect it from damage during harvest. The majority of leave trees in this unit have been marked as large clumps surrounding some large embedded boulders, which may have also included some of the LWD (large woody debris). This has not been confirmed, but my field notes indicate that some of the LWD that I observed was in the vicinity of the boulders. Some individual leave tree marking also targeted a large cedar log.

The only special habitat features that were observed during the field visit in association with this unit were several talus and boulder fields that are located to the north of the unit. I assessed these and determined that they are really "forested boulder fields" (with the boulders embedded in the ground) closer to the units, transitioning to forested talus fields (with more crevices present in the rock rubble), and then to open talus fields as one moves upslope (to the north). For safety reasons, we did not climb very far into the open talus fields. I saw potential for there to be at least "low-", if not "medium-" value cave features within the rocks, but since these are located considerably upslope from the unit, I determined that a formal "cave" buffer would not be

required for any such features in this area. The non-forested talus has been provided with a 100-foot no-harvest buffer.

According to the WDFW Heritage Points GIS layer, there is an old historic peregrine falcon eyrie located within ½ mile to the north of this unit (and within ½ mile of Unit 5), as well as another eyrie located further to the NW, beyond ½ mile of the proposal. Consultation with the WDFW District Wildlife Biologist for this area has determined that the closer site has not been active since the 1970's (Ruth Milner, pers. comm.). Although this eyrie has not been monitored since 2009, it was surveyed regularly for a number of years through 2009, with no activity detected for decades. Therefore, no peregrine falcon management plan is warranted for this site or for this proposal.

### **Unit 5**

I have not visited Unit 5A, but did walk through the adjacent stand, which I have been informed is fairly representative of the stand within the unit. Unit 5A is on NRF "non-habitat" land, and so is proposed as a VRH. The stand within this unit is relatively homogeneous, aside from two seasonally wet areas containing a number of down logs; therefore, two large leaf tree clumps have been marked around these areas.

I did walk through Unit 5B, primarily to assess the stand for silvicultural options geared toward the development of spotted owl habitat characteristics (as it is in a designated NRF "Next Best" stand). Because the stand that includes and surrounds Unit 5B is not heavily stocked, it was determined that a thinning would not be conducive toward creating spotted owl habitat. Instead, a plan was developed to place a few "gap" cuts of ¼ acre each in this unit, in order to increase horizontal heterogeneity on the local landscape, as well as possibly increase vertical heterogeneity within the patches. Only a small area is being treated this way primarily due to logistical constraints.

As mentioned previously, there is a historic peregrine falcon eyrie located within ½ mile of this unit (to the east). However, as discussed in the section for Unit 4, it has been determined through consultation with a WDFW representative that a management plan is not warranted for this site/proposal.

The field visit on 5/27/15 was conducted in order to assess some old mine adits located in the vicinity of Units 5A & 6. Three such features were evaluated according to the draft cave procedure. Two of these are located near Unit 5A. One of these is approximately 250 feet to the SE of the unit (the unit boundary was actually adjusted to provide a 250-foot buffer for the cave entrance), and approximately 153 feet (as measured in GIS) from a proposed new road right-of-way. This feature is relatively large, and determined to be of "high" value, primarily based on physical parameters (visual estimates of its dimensions, resulting in a volume of approximately 5,300 cu. ft.). Taking habitat quality or "usability" into account, it was determined that the back portion of the passage is not likely usable by bats or other mammals, as water drips from the ceiling and along the walls, into standing water. This portion of the adit likely does not provide habitat for anything other than possibly for amphibians. However, the feature is still considered to be of "high" value, as the front portion of the passage (estimated to be approximately 1,800+ cu. ft. in volume) is relatively dry. This "usable" portion is still above the minimum of 1,500 cu.

ft. to be considered “high” value in the Draft Cave Procedure. Some small mammal (possibly rodent) scat was also observed in this part of the passage, indicating some wildlife use (biological value). No bats were detected during the site visit on 5/27/15, but it is not uncommon for bats to be absent from roosting caves at that time of the season in the NW Region. It should be noted that an existing road is already located within ~100 feet of the entrance, and evidence of past/existing human activity was observed within the entrance. Because of this observation, the fact that the “usable” area in this feature is the portion that is closest to the entrance (i.e., more susceptible to disturbance) might effectively lower its value as wildlife habitat.

The other adit near Unit 5A is located approximately 725 feet to the SE of the unit, approximately 470 feet from the proposed new road construction, and approximately 30 feet from the existing road addressed above. This feature was not fully observable, due to deep standing water and a stream running out of it. Therefore, the volume estimates are extremely rough, and partially based on a length dimension that was provided by the DNR Archaeologist (who said that it is about 200 feet in length). Based on these rough estimates, the volume of this feature could be as much as 6,400 cu. ft. The extreme amount of water inside of it makes it very unlikely to be usable by mammals (the presence of flowing or standing water only makes a cave of “high” value on a dry landscape). However, it should be noted that there was significant air flow coming out of this feature, and there was a musky smell (perhaps porcupine?), which suggests that there may be another entrance, as well as a dry chamber inside. Another observation at this location was vegetation floating in the water at the entrance of the adit that was apparently cut by humans, as indicated by extremely straight edges. The true biological value of this feature is very difficult to judge based on the combination of these observations.

A consultation memo has been approved by the HCP section of the Forest Resources Division in order to implement the draft cave procedure in association with this proposal, as well as to allow a variance regarding the minimum distance recommended for road building (0.25 mile) in relation to two of the caves. This variance has also received Region Manager approval, as required per the draft cave procedure. For more details, please see the memo, dated 8/12/15, with the subject line “Proposed Implementation of the Draft Cave Procedure for the Dyno Timber Sale”.

Consultation has also been conducted in order to build new road through a NRF “Next Best” stand to access Unit 5 (because this unit is not geared toward spotted owl habitat enhancement). For more details, please see the memo, dated 8/19/15, with the subject line “Request for Road Construction Through a Northern Spotted Owl ‘Next Best’ Stand”.

### **Unit 6**

Although I have not walked through this proposed VRH unit, the third mine adit that I evaluated is located nearby (approximately 465 feet to the east of the unit). Because it is fairly small, and considered to be of “low” value due to its volume (approximately 144 cu. ft.), only a 30-foot buffer would be required for the cave entrance (per the draft cave procedure), so no alterations of the unit boundary or other proposal details were necessary to protect this feature.

Because approximately 50% of this small (~9.2-acre) unit is comprised of hardwoods (mostly red alder), leave tree selection was primarily driven by locations of conifers, for retention of true

“legacy” trees (to be retained for more than one rotation, per the leave tree procedure for the HCP; Procedure 14-006-090).

**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 is located just under 5 miles to the north of the proposal area (although it should be noted that there is a considerable amount of unsurveyed USFS and DNR land between the proposal area and this site, as well as to the south of the proposal area). Due to this distance, timing restrictions and other mitigation measures for marbled murrelets are not required or recommended for this proposal.

There is also a mountain goat winter and transitional range (the “Ragged Ridge South End” site) located to the north of Units 3 & 4, and to the east of Unit 5. This does not require any mitigation measures for the proposal.

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: 2814956

Effective Date: 1/29/2016

Expiration Date: 1/29/2019

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

Shut Down Zone: 658

EARR Tax Credit:  Eligible  Non-eligible

Reference: Dyno

**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. Huang*

Region: Northwest

Title: Skykomish Forest Practice Forester

Date: 1/29/2016

Copies to:  Landowner, Timber Owner and Operator

Issued in Person:  Landowner,  Timber Owner  Operator By: *J. 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)



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

FPA/N No: 2814956  
 Effective Date: 1/29/2016  
 Expiration Date: 1/29/2019

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

Shut Down Zone: 658  
 EARR Tax Credit:  Eligible  Non-eligible  
 Reference: Dyno

**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**

Class II  Class III  Class IVG  Class IVS

**Number of Years Granted on Multi-Year Request**

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: 1/29/2016

Copies to:  Landowner, Timber Owner and Operator

Issued in Person:  Landowner,  Timber Owner  Operator By: *S. Utz*

**Appeal Information**

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Northwest Region  
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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)





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: 2814956 Section(s): 2,3,10,11,12,13 Township: 27N Range: 09E

Original Landowner (Signature): *[Handwritten Signature]*

Original Landowner (Printed): Yvette Novarro Date: 5/23/16

**30-092303 DYNO VRH & VDT**

<b>New Operator</b> – Fill out this section <u>only</u> if you are changing or adding an operator	
Legal Name of New Operator: (Print) PULLEY CORPORATION Phone: 360-724-5012 Email:	Mailing Address: 20737 ECHO HILL ROAD SEDRO WOOLLEY, WA 98284 Date:
New Operator Signature: _____	

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

<b>New Timber Owner</b> – Fill out this section <u>only</u> if you are transferring your timber rights	
Legal Name of Timber Owner: (Print) PULLEY CORPORATION Phone: 360-724-5012 Email:	Mailing Address: 20737 ECHO HILL ROAD SEDRO WOOLLEY, WA 98284 Date:
Forest Tax Reporting Account Number: (Contact Dept. of Revenue to get this number: 1-800-548-8829) <u>800-049-187</u>	
New Timber Owner Signature: <u><i>[Handwritten Signature]</i></u> <u>5-6-16</u>	

<input checked="" type="checkbox"/> Received by: <u><i>[Handwritten Signature]</i></u> Date: <u>5/31/16</u>
(DNR Forest Practices Staff Signature) 11/08/2005 Form QQ50



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

FPA/N No: 2814956  
 Date of Service: 9-27-16

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

Reference: Dyno

**DNR's Decision**

**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

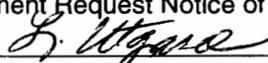
Issued By: Steven Huang  Title: Forest Practice Forester

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 9-27-16, 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 # 2814956

L. Utgard (Printed name)  (Signature)



Request to Amend Forest Practices Application/Notification

For DNR Region Office Use Only
Region: NW

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

TYPE OR PRINT IN INK:

Dyno #92303

1. Landowner, Timber Owner, and Operator information

Table with 3 columns: Landowner, Timber Owner, Operator. Rows include Legal Name, Mailing Address, City/State/Zip, Phone, and Email.

2. Approved FPA/N Number 2814956

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 proposed amendment involves using a self-leveling harvester on slopes greater than 35%. Our plan is to use the harvester in Unit 5A, specifically in the south eastern most portion of the unit. I've highlighted the area on the attached maps that show the specific area that the machine will be used. The machine will be limited to slopes less than or equal to 50%. There is one type 5 (Np) stream near the proposed area but this will be avoided with a 50' equipment limitation zone. If at any time there is evidence of excessive rutting, potential for sediment delivery, or damage to the soil then the machines will be removed from the area and not allowed to operate on the slopes as directed by the contract administrator. This request is being made to reduce the likelihood of damage to the historic trail that has been recorded with the Department of Archaeology and Historic Preservation.

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. [Handwritten signature: Ametto Messner for Matt Fisher]

[Handwritten date: 9/23/16]

Landowner's Signature

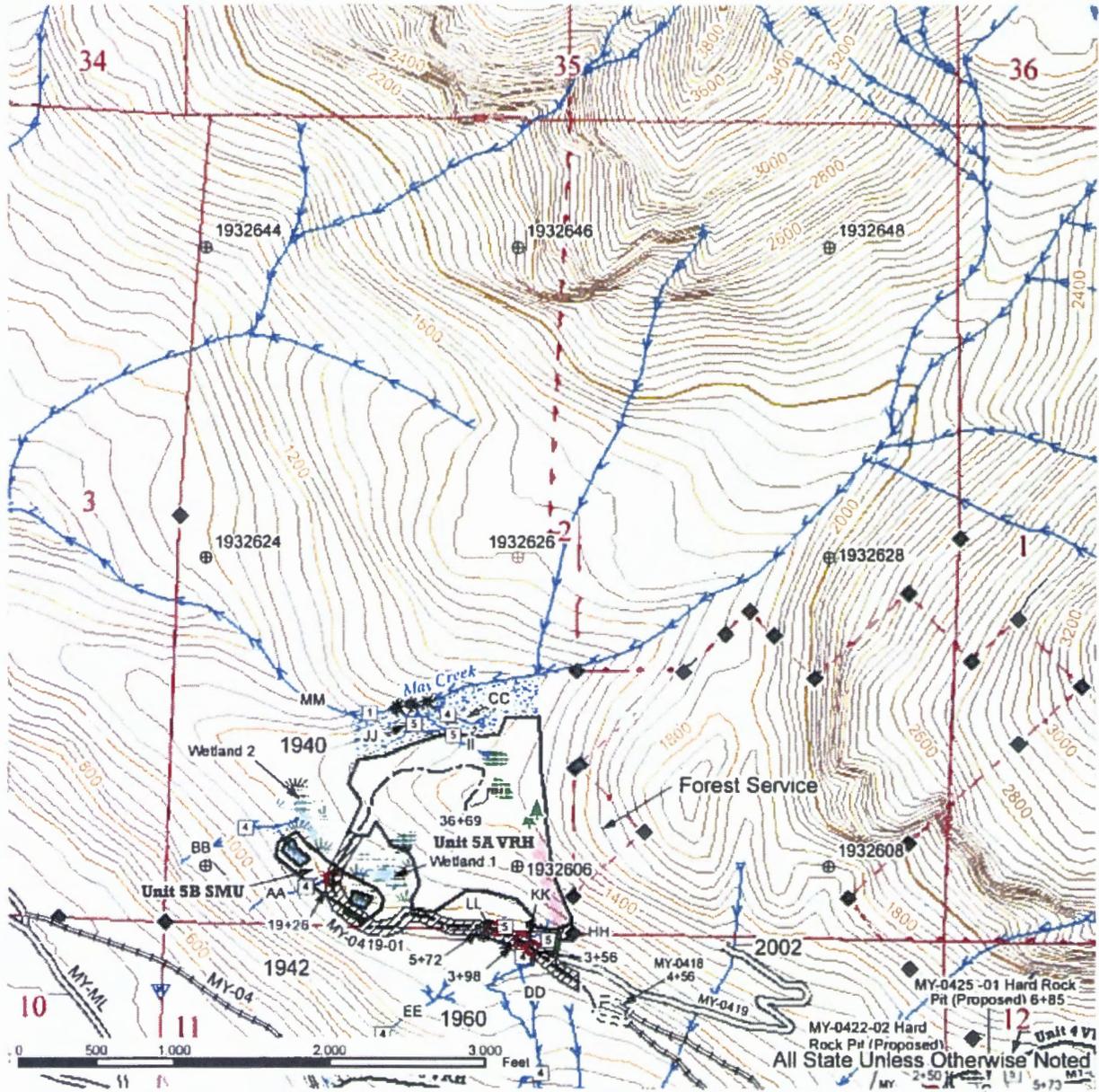
Date

# FOREST PRACTICES ACTIVITY MAP

SALE NAME: DYNO  
 APPLICATION #: Not Defined

COUNTY(S): SNOHOMISH  
 TOWNSHIP(S): T27R09E

*Equipment trail*  
*Equipment Use Area*



Timber Sale Unit	Right of Way	Stream Type
Existing Roads	Wetlands	culvert
Temporary Construction	Wetland Management Zone	Waste Area
New Construction	Riparian Management Zone	Gale
Required Reconstruction	Leave Tree Area	Tics - 2000' Interval
Optional Reconstruction	Gap Cuts	Potential Rock Source
DNR Managed Lands	Streams	Non-Tradable Leave Trees
Public Land Survey Sections	Stream Break	Survey Corners
Abandon / Orphan Roads (FP)	A, B Stream Identifier	Existing Rock Pit
	19XX Stand Origin Date	

Prepared By: jvan490

Creation Date: 8/18/2015

Modification Date: 11/6/2015

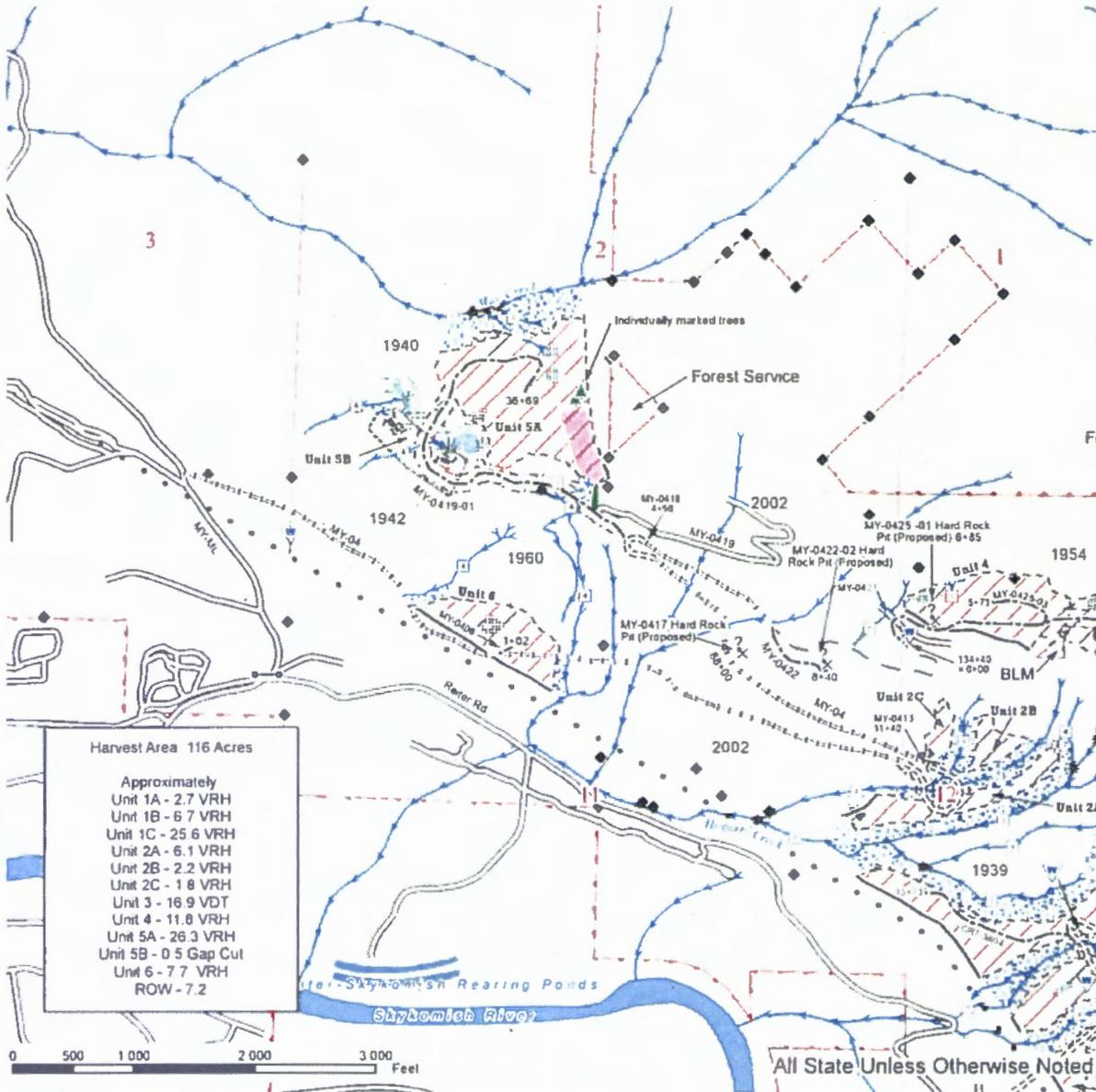


equipment trail  
 equipment vic area

# TIMBER SALE MAP

**SALE NAME:** DYNO VRH & VDT  
**AGREEMENT#:** 92303  
**TOWNSHIP(S):** T27R09E  
**TRUST(S):** State Forest Transfer(1) Common School and Indemnity(3)

**REGION:** Northwest Region  
**COUNTY(S):** SNOHOMISH  
**ELEVATION RGE:** 541-1879



Harvest Area 116 Acres	
Approximately	
Unit 1A - 2.7 VRH	
Unit 1B - 6.7 VRH	
Unit 1C - 25.6 VRH	
Unit 2A - 6.1 VRH	
Unit 2B - 2.2 VRH	
Unit 2C - 1.8 VRH	
Unit 3 - 16.9 VDT	
Unit 4 - 11.8 VRH	
Unit 5A - 26.3 VRH	
Unit 5B - 0.5 Gap Cut	
Unit 6 - 7.7 VRH	
ROW - 7.2	

Safe Area	Required Construction	Streams
Safe Boundary Tags	Optional Construction	Stream Type
Sale Boundary (No Tags)	Required Reconstruction	Stream Type Break
Sale Boundary (Orange painted lake trees)	Optional Reconstruction	Survey Corners
Special Management Unit Tags	Existing Roads	Waste Area
Special Management Unit (No Tags)	Wetlands	Potential Rock Source
Historic Trail	Wetland Management Zone	Gate
BPA Powerlines	Riparian Management Zone	Non-Tradable Leave Trees
Right of Way Tags	Leave Tree Area	
DNR Managed Lands	Gap Cuts	

Prepared By jvan490

Creation Date 8/18/2015

Modification Date/By 2/9/2016  
 tkie490

All State Unless Otherwise Noted