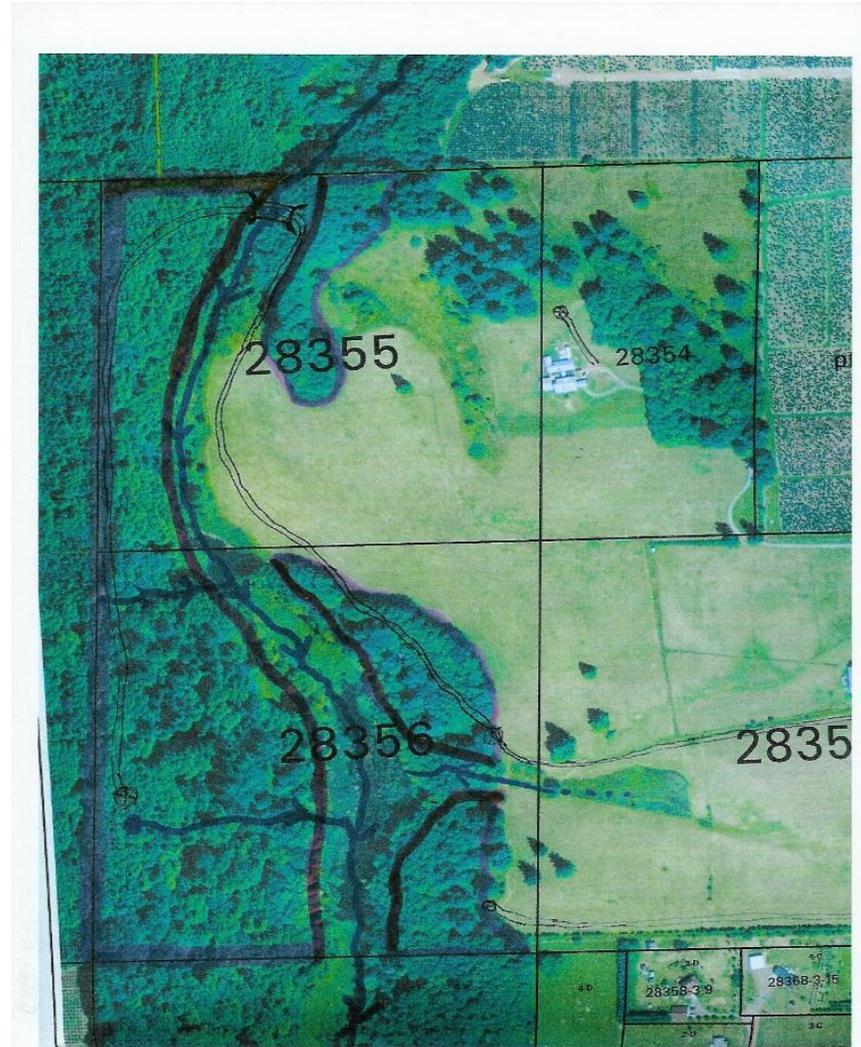


A Hardwood Conversion Case Study

Mason Property

Tom Fox-President-Tree Management Plus Inc.



A Hardwood Conversion Case Study

Mason Property

- Intro of Landowner
- Intro of property- Residents, Mixed use, 140ac ownership, 40 ac Timber
- Review the two different Hardwood Conversion rule option
 - Forest and Fish Hardwood conversion rule WAC 222-30-021(1)(b)(i)
 - Forest and Fish Alternate Plan WAC 222-12-040 & 222-12-0401
- Go through Mason FPA and discuss process
- Walk through ID team meeting and process and results
- Explain final approved FPA prescription
- Explain what we will be looking at on the ground during field tour

WAC 222-30-021(b) Washington Riparian Management Zone requirements

- "Stand requirement" means a number of trees per acre, the basal area and the proportion of **conifer** in the combined inner zone and adjacent core zone so that the growth of the trees would meet desired future conditions.
- The following table defines basal area targets when the stand is one hundred forty years old.
- Site Class Desired future condition target basal area per acre (at 140 years)
- I 325 sq. ft.
- II 325 sq. ft.
- III 325 sq. ft.
- IV 325 sq. ft.
- V 325 sq. ft.

There are two different Hardwood Conversion rule option for a landowner to use

- Forest and Fish Hardwood conversion rule
WAC 222-30-021(1)(b)(i)
- Forest and Fish Alternate Plan
WAC 222-12-040 & 222-12-0401

Forest and Fish Hardwood conversion rule

WAC 222-30-021(1)(b)(i)

- Chapter 222-30 Timber Harvesting
- (i) Hardwood conversion **in the inner zone**. When the existing stands in the combined core and inner zone do not meet stand requirements, no harvest is permitted in the inner zone, except in connection with **hardwood conversion**.
- (A) The landowner may elect to convert hardwood-dominated stands in the inner zone to **conifer-dominated stands**. Harvesting and replanting shall be in accordance with the accordance with the following limits:
- Existing stands in the combined core and inner zone do not meet stand requirements (WAC 222-30-021 (1)(b), (DFC Targets))

Forest and Fish Hardwood conversion rule

WAC 222-30-021(1)(b)(i)(cont.)

- There are fewer than fifty-seven conifer trees per acre eight inches or larger dbh in the conversion area;
- There are fewer than one hundred conifer trees per acre larger than four inches dbh in the conversion area;
- There is evidence (such as conifer stumps, historical photos, or a conifer understory) that the conversion area can be successfully reforested with conifer and support the development of conifer stands;
- The landowner owns five hundred feet upstream and five hundred feet downstream of the harvest unit;

Forest and Fish Hardwood conversion rule WAC 222-30-021(1)(b)(i)(cont.)

- The core and inner zones contain no stream adjacent parallel roads
- Riparian areas contiguous to the proposed harvest unit are owned by the landowner proposing to conduct the conversion activities, and meet shade requirements of WAC 222-30-040 or have a seventy-five foot buffer with trees at least forty feet tall on both sides of the stream for five hundred feet upstream and five hundred feet downstream of the proposed harvest unit (or the length of the stream, if less);
- If the landowner has previously converted hardwood-dominated stands, then post-harvest treatments must have been performed to the satisfaction of the department.

Forest and Fish Hardwood conversion rule

WAC 222-30-021(1)(b)(i)(cont.)

- (B) In addition to the conditions set forth above, permitted conversion activities in the inner zone of any harvest unit are limited by the following:
 - Each continuous conversion area is **not more than five hundred feet in length;**
 - two conversion areas will be considered "continuous" unless the no-harvest area separating the two conversion areas is at least half the length of the larger of the two conversion areas.

Forest and Fish Hardwood conversion rule WAC 222-30-021(1)(b)(i)(cont.)

- Type S and F (Type 1, 2, or 3) Water: **Up to fifty percent of the inner zone area of the harvest unit on one side of the stream** may be converted provided that:
- The landowner owns the opposite side of the stream and the landowner's riparian area on the opposite bank meets the shade requirements of WAC 222-30-040 or has a seventy-five foot buffer of trees at least forty feet tall



Forest and Fish Alternate Plan

WAC 222-12-040 & 222-12-0401

- WAC 222-12-040 *Alternate plans--Policy. [Effective 7/1/05]
- All forest practice operations must comply with both the act and the rules promulgated pursuant to the act, unless an alternate plan has been approved by the department.
- (1) The alternate plan process can be used as a tool to deal with a variety of situations, including where the cumulative impacts of regulations disproportionately impact a landowner.

Forest and Fish Alternate Plan

WAC 222-12-040 & 222-12-0401(cont.)

- In some instances an alternate plan may be used to make minor on-the-ground modifications, which result in significant operation efficiencies. The alternate plan process may be used to address circumstances where a landowner has an economically inaccessible unit.
- The alternate plan process may also be used to facilitate voluntary landscape, riparian or stream restoration.

Forest and Fish Alternate Plan

WAC 222-12-040 & 222-12-0401(cont.)

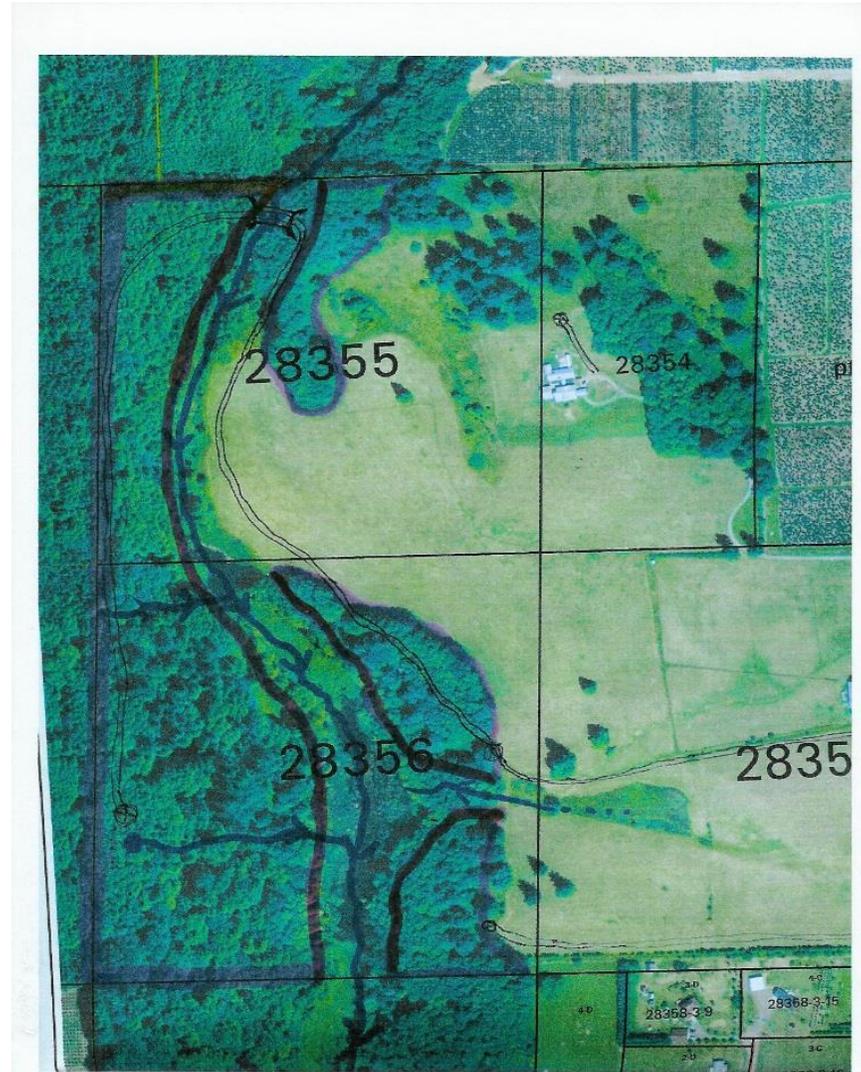
- In all cases, the alternate planning process will result in a plan that provides protection to public resources at least equal in overall effectiveness as provided by the act and rules while seeking to minimize constraints to the management of the affected lands.

Forest and Fish Alternate Plan

WAC 222-12-040 & 222-12-0401(cont.)

- (2) The legislature has found in RCW 76.13.100(2) that small forest landowners should also have the option of alternate management plans or alternate harvest restrictions on smaller harvest units that may have a relatively low impact on aquatic resources. These alternate plans are intended to provide flexibility to small forest landowners that will still provide protection of riparian functions based on specific field conditions or stream conditions on the landowner's property.

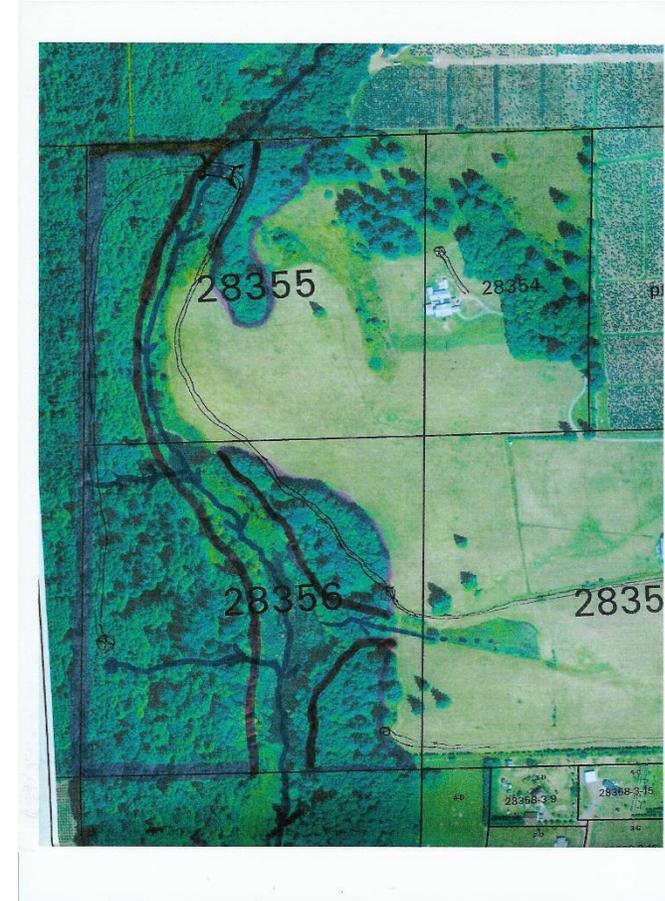
A Hardwood Conversion Case Study Mason Property



A Hardwood Conversion Case Study Mason Property

Proposed Alternate Plan Prescriptions

1. 35' fixed width buffer no cut of all Hardwoods from BFW all F streams and Wetland
2. Retain All Conifer with in 100' of BFW on all F streams and Wetland
3. Retain all trees within 50' no cut of all Np streams
4. Install 2 x 8'x 40' temporary bridge



Installing Temporary Bridge







LYTC

MGW 45000 KG
00210 C.B
TARE 5300 KG
19885 L.H
PAYLD 39700 KG
07525 L.H

SCZU 479770 1
BM 4363



SCZU 478799

sea
containers
limited
Hamilton, New Zealand

MGW 45000 KG
99210 LB
TARE 5300 KG
11685 LB
PAYL 39700 KG
87525 LB





For DNR Region Office Use Only	
FPA/N #:	
Region:	
Received Date:	

**Forest Practices Application/Notification
Western Washington**

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

1. Landowner, Timber Owner and Operator

Legal Name of LANDOWNER Larry and Nancy Mason	Legal Name of TIMBER OWNER (if different than Landowner) Larry and Nancy Mason	Legal Name of OPERATOR (if different than Landowner) Tree Management Plus Inc.
Mailing Address: 826 Cinabar Rd.	Mailing Address: 826 Cinabar Rd.	Mailing Address: P.O.Box 311
City, State, Zip Cinabar, WA. 98533	City, State, Zip Cinabar, WA. 98533	City, State, Zip Ethel, WA. 98542
Phone (360) 985-2776	Phone (360) 985-2776	Phone (360) 978-4305
Email:	Email:	Email: tomfox@tds.net

2. Contact Person

Contact Person: Tom Fox	Phone (360) 978-4305 Email: tomfox@tds.net
----------------------------	-------------------------------------------------

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.

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:
800-073-003

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?

- 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	EW	Tax Parcel Number	County
4	12N	2	E	028356000000	Lewis
4	12N	2	E	028355000000	Lewis

7. When are you planning to begin work on the proposed activity? : 8/2012

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

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

a. No Yes List the RMAP number: _____

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**, punchoon, arch, other)	Proposed Size (dimensions of structure)	Culvert Design Method (No-slope, Stream-sim, Hydraulic, Other) (F and S only)	Channel Bed Width (ft) (F and S only)	Stream Gradient (%) (F and S only)	RMAP Project (Y or N)	FFPPP Project (Y or N)
3	F	125110-3	8/2016	Install	Temp. Bridge	2x8"x40'		12'	1%	N	N
4	Np	125110-3	8/2016	Install	Temp Culvert	24"x30'		2'	1%	N	N
6	Np	125110-3	8/2016	removal	old 12" culvert	removal		2'	1%	N	N

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

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

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**				
Suspending Cables				
Cable Yarding				
LWD Placement/Removal				
Beaver Dam Removal				
Felling and Bucking				
Other (describe in number 31)		X		

*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 FPAN 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
2	2750'	25%	2750'	2016

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

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?
7	B	nonc	AP - Harvest	4	N/A	N/A

***** **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 (m ³)	Volume to be Harvested (biomass tonnage)	Volume to be Harvested (%)	Steepest Slope in Harvest Unit (%)
1	Even-aged	N	Shovel & Tracked Skidder	28	560	N/A	100	40%
5	Uneven-aged	N	Shovel & Tracked Skidder	5	15	N/A	20%	10%

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

- Planting. Tree Species: Douglas Fir @ 400TPA
- 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)
A	F	II	15'	Y	A	N/A	35'to100'sec AP
D	F	II	3'	N	A	N/A	35'to100'sec AP

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)
B	700'	700' x 35' no cut			
C	600'	600x 35' no cut			

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

Harvest Boundaries: East line marked in Yellow flagging, South & North line Red flagging
 Clumped Wildlife Reserve Trees/Green Recruitment Trees: _____
 Right-of-way limits/road centerlines: Blue Flagging
 Stream Crossing Work: Crossing #3 Temp Bridge and Crossing #4 Temp. crossing marked in Blue & White flagging
 Riparian Management Zone Boundaries and Leave/Take Trees: No cut boundaries in Pink flagging see AP
 Channel Migration Zone: _____
 Wetland Management Zone Boundaries and Leave/Take Trees: _____

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.

Install 2 x 8' X 40' temporary Bridge at Crossing #4

32. We acknowledge the following:

- The information on this application/notification is true.
- We understand this proposed forest practice is subject to:
 - o The Forest Practices Act and Rules AND
 - o 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:
 - o Conversion of land to non-forestry use.
 - o Harvesting within the maximum RMZ on a 20-acre exempt parcel that was acquired after June 5, 2006.
 - o 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:	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.



**Forest Practices Application/Notification
Alternate Plan Form**

For DNR Region Office Use Only	
FPA/N #:	2922943
Region:	Pacific Cascade
Received Date:	07/19/2011

This form provides an outline for preparing an Alternate Plan. Although not required, it will help you prepare your Alternate Plan. Include the completed form with your Forest Practices Application. Refer to Board Manual Section 21 for help in developing your alternate plan, or contact your DNR region office for assistance.

TYPE OR PRINT IN INK:

Landowner information

<u>Name of LANDOWNER</u> Larry B. and Nancy Mason	Phone: 360-985-2778 Email:
------------------------------------------------------	-------------------------------

Contact person information.

<u>Contact Person</u> Tom Fox	Phone: 360-749-1302 Email: tomfox@lds.net
----------------------------------	----------------------------------------------

1. Current conditions and management goals:

- a) List the predominate tree species, average tree height and age; note excessive blowdown, fire damage, root rot or other forest health issues; describe topography.
- b) Describe the resource management goals you wish to achieve through this alternate plan.

The Predominate tree species is Red Alder with a few scattered conifer trees that have a average tree height of 100' and average age is 50 years old. The topography is 0%-40%.
We wish to convert the perdominately Red Alder stand of tree to conifer trees.

2. **Proposed Management Activities:** Describe what activities will be conducted (example; harvest, tree planting, road construction, etc). Describe where, how, and when each activity will be conducted

NOTE: A representative sample of the proposed alternate plan area must be flagged on the ground for interdisciplinary team review.

The plan is to do a hardwood conversion harvest along Stream reach #2 of Silver creek leaving a fixed width 35' no cut buffer and retain all conifer with in 100' from BFW. Along Stream reach #3 & #4 leave a fixed width buffer of 35'. The logging slash will be piled at time of harvest and burned the next fall/winter. Douglas Fir will be planted the following winter at a density of 400 tree per acre.

3. **Describe how your proposed management activity would affect the alternate plan area**

For activities in a riparian area:

- a) Describe the current level of large woody debris, shade, bank stability, sediment filtering and nutrient input.
- b) Explain the short and long term changes in the amount of large woody debris, shade, bank stability, sediment filtering and nutrient input from the current level. Be as specific as possible. See Board Manual Section 21

Woody Debris is adequate in most areas. Shade is adequate in most areas. Bank Stability is good. Sediment filtering is good. Nutrient input is good.

The short term risk of this management activity will be a loss of shade from the trees harvested. The long term risks are none. Establishment of a stand of conifer trees where short life Red Alder tree currently exist will provide better LWD, shade, bank stability, sediment filtering and nutrient input from the conifer stand in the future.

The proposed management activity will provide protection at least equal in overall effectiveness to the protection provided in the forest practice act and rules by establishing a healthy conifer stand where very little conifer currently exist.

The proposed activity will help to mitigate the economic hardship to the landowner and will help to maintain forestry as an economically viable use of the ownership.

4. If you are planning activities in the riparian area, fill in the table below.

Stream Segment Identifier	Watertype (S,F,Np)	Affected Stream Segment Length (feet)	Average Bankfull Width (feet)	Average width of no cut buffer (feet)	Harvest one side or both sides
2	F		12'	35'	both sides

5. Does this plan propose to remove hardwood trees within a riparian area in order to plant conifers?

No Yes If yes, describe the species to be planted. Include a schedule of brush control activities to ensure the planted trees will be vigorous and free to grow after three growing seasons.

Douglas Fir trees will be planted. Brush control needs will be monitored each year and hand slashing or hand spraying of brush will be done as needed.

6. List the specific parts of the Forest Practices Board Rules that the proposal departs from:

See Washington Forest Practices Board Rules at: <http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesRules>

WAC Section	Sub-section	WAC Section/Sub-section Title
222-30-020	(3)	Western Washington riparian management zone
222-30-021	(1)	Western Washington riparian management zone
222-30-021	(1)(c)	Western Washington riparian management zone

7. Attach map(s) (preferably 1" = 400' scale) with updated stream locations, wetlands, unstable slopes and roads. Clearly designate proposed alternate plan area. The alternate plan area must also be shown on the forest practices activity map.

8. Attach information, such as a timber cruise, water type modification forms, technical field notes, literature references, etc., that support the alternate plan.

9. Small Forest Landowner Office Monitoring

The Small Forest Landowner Office (SFLO) is required to monitor small forest landowner alternate plans for cumulative effects.

a) Does this alternate plan contain a monitoring strategy

Yes No If yes, please attach.

b) May SFLO staff access the alternate plan site to conduct monitoring?

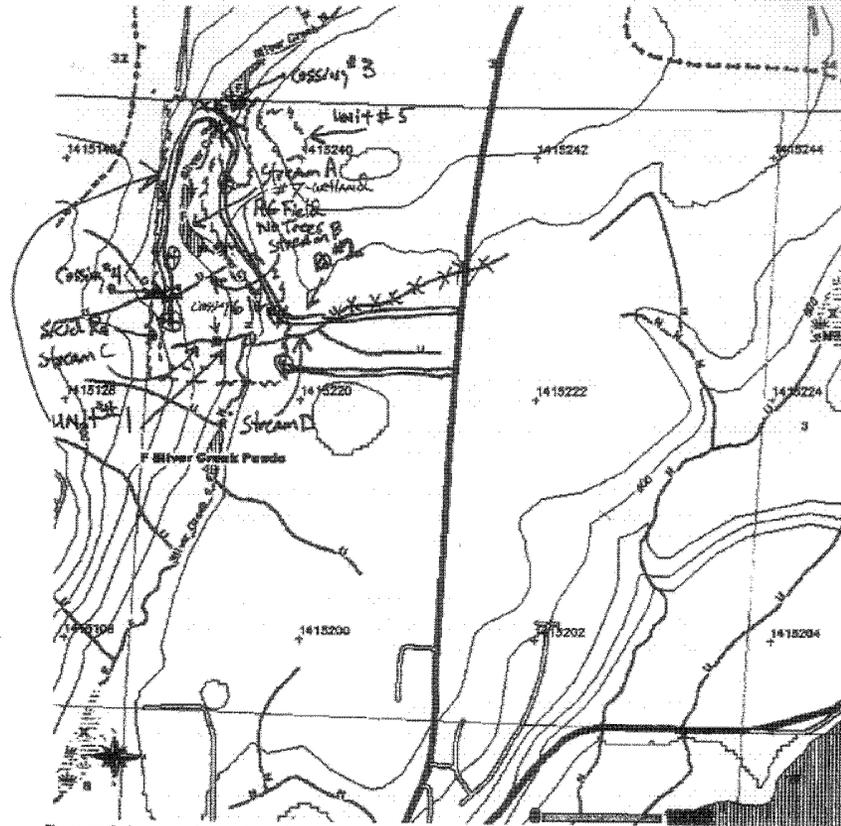
Yes No

2922843

FOREST PRACTICE ACTIVITY MAP

TOWNSHIP 12 NORTH HALF 0, RANGE 2 EAST (W.M.) HALF 0, SECTION 4

Application #: _____



Please use the legend from the FPA instruction or provide a list of symbols used.

Tuesday, July 19, 2011 11:59:59 AM
NAD 83
Contour interval: 40 Feet

Western Washington Water Type Classification Worksheet

Stream/Segment ID: A Stream/Segment ID: B Stream/Segment ID: C

- 1. Do you have a protocol survey? (See the Board Manual Section 13.) Or, does the stream have waiver characteristics? (See WAC 222-16-031(3) (b) (II).)
2. List the date Stream observations were made for water typing.
3. Were fish observed or are fish known to use the stream any time of the year?
4. Is the average BFW two feet or wider? AND, is the average stream gradient less than or equal to 16%?
5. Is the average BFW two feet or wider? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?
6. Does the stream segment contain water at all times during a normal rainfall year?
7. Is the stream segment downstream of a perennial source of water?
8. Is the stream physically connected by an above-ground channel to Type S, F, or Np water?
9. Describe how you determined the uppermost point of perennial flow. Include a description of its location and show the point on a map (Use a separate piece of paper if necessary).

Stream/Segment ID _____ Description:
Stream B - Perennial source up stream on next door neighbor
Stream C - uppermost point of perennial flow is just inside
Property ownership - Dry above where existing steel rd exists

Western Washington Water Type Classification Worksheet

Stream/Segment ID: D Stream/Segment ID: _____ Stream/Segment ID: _____

1. Do you have a protocol survey? (See the Forest Practices Board Manual Section 13.) Or, does the stream have walver characteristics? (See WAC 222-16-031(3)(b)(ii).)

- | | | |
|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> No. Continue | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |
| <input type="checkbox"/> Yes. | <input type="checkbox"/> Yes. | <input type="checkbox"/> Yes. |
| <input type="checkbox"/> Fish found. Type F water. Stop. | <input type="checkbox"/> Fish found. Type F water. Stop. | <input type="checkbox"/> Fish found. Type F water. Stop. |
| <input type="checkbox"/> No fish. Continue to #6. | <input type="checkbox"/> No fish. Continue to # 6. | <input type="checkbox"/> No fish. Continue to #6 |
| <input type="checkbox"/> Yes. Meets walver criteria. | <input type="checkbox"/> Yes. Meets walver criteria. | <input type="checkbox"/> Yes. Meets walver criteria. |

2. List the date Stream observations were made for water typing.

Date observed: <u>7/20/01</u>	Date observed: _____	Date observed: _____
Continue.	Continue.	Continue.

3. Were fish observed or are fish known to use the stream any time of the year?

- | | | |
|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. |
| <input checked="" type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |

4. Is the average BFW two feet or wider? AND, is the average stream gradient less than or equal to 16%?

- | | | |
|--------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| <input checked="" type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. |
| <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |

5. Is the average BFW two feet or wider? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?

- | | | |
|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. | <input type="checkbox"/> Yes. Type F water. Stop. |
| <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |

6. Does the stream segment contain water at all times during a normal rainfall year?

- | | | |
|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Yes. Type Np water. Go to 9 | <input type="checkbox"/> Yes. Type Np water. Go to 9 | <input type="checkbox"/> Yes. Type Np water. Go to 9 |
| <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |

7. Is the stream segment downstream of a perennial source of water?

- | | | |
|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Yes. Type Np water. Go to 9 | <input type="checkbox"/> Yes. Type Np water. Go to 9 | <input type="checkbox"/> Yes. Type Np water. Go to 9 |
| <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. | <input type="checkbox"/> No. Continue. |

8. Is the stream physically connected by an above-ground channel to Type S, F, or Np water?

- | | | |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| <input type="checkbox"/> Yes, Type Ns water. | <input type="checkbox"/> Yes, Type Ns water. | <input type="checkbox"/> Yes, Type Ns water. |
| <input type="checkbox"/> No, non-typed water. | <input type="checkbox"/> No, non-typed water. | <input type="checkbox"/> No, non-typed water. |

9. Describe how you determined the uppermost point of perennial flow. Include a description of its location and show the point on a map (Use a separate piece of paper if necessary).

Stream/Segment ID _____ Description: _____

Issue Date: December 24, 2013

Control Number: 125110-3

Project Expiration Date: August 02, 2016

FPA/Public Notice # 2922943

<u>PERMITTEE</u>	<u>AUTHORIZED AGENT OR CONTRACTOR</u>
Larry Mason 826 Cinabar Rd Cinabar, WA 98533	Tree Management Plus ATTENTION: Tom Fox PO Box 311 Ethel, WA 98542 360-978-4305

Project Name: Temporary Bridge install for logging

Project Description: Install temp bride for FPA harvest. Bridge to be removed at expiration of FPA.

PROVISIONS

1. The project may begin December 24 and shall be completed by August 2, 2016.
2. Work below the ordinary high water line if required, shall only occur between July 1 and September 30.
3. Work shall conform to plans and specifications received by the Washington Department of Fish and Wildlife on the Forest Practices Application (FP 2922943), except as modified by this Hydraulic Project Approval. A copy of these plans shall be available on site during construction.
4. Excavation for and placement of the foundation and superstructure shall be outside the ordinary high water line.
5. Excavation for the footings shall be completely separated from the stream by placing the footings landward of the top of the bank.
6. The bridge structure shall be placed in a manner to minimize damage to the streambed and banks.
7. The bridge shall be constructed to pass the normal winter flow with consideration of debris likely to be encountered if it is to remain in place from September to July.
8. Where aggregate or earth type material is used for paving or accumulates on the bridge, curbs, or wheel guards shall be installed and maintained to prevent the loss of this material into the stream.
9. Approach material shall be structurally stable and shall be composed of material that if eroded into the water shall not be detrimental to fish life.

Issue Date: December 24, 2013

Control Number: 125110-3

Project Expiration Date: August 02, 2016

FPA/Public Notice #: 2922943

10. At least one end of the temporary bridge or stringer shall be securely anchored.

11. The bridge deck shall be cleaned of aggregate or earth materials prior to bridge removal. This material shall be disposed of so it will not enter the stream.

12. Equipment used for this project shall be free of external petroleum-based products while working around the stream. Accumulation of soils or debris shall be removed from the drive mechanisms (wheels, tires, tracks, etc.) and undercarriage of equipment prior to its working below the ordinary high water line. Equipment shall be checked daily for leaks and any necessary repairs shall be completed prior to commencing work activities along the stream.

13. Wooden components which will be in contact with the water shall not contain creosote or pentachlorophenol. This shall include pilings, beams, structural supports, and decking. These components shall remain free of these toxic substances for the duration of their functional lives.

14. Erosion control methods shall be used to prevent silt-laden water from entering the stream. These may include, but are not limited to, straw bales, filter fabric, temporary sediment ponds, check dams of pea gravel-filled burlap bags or other material, and/or immediate mulching of exposed areas.

15. All waste material such as construction debris, silt, excess dirt or overburden resulting from this project shall be deposited above the limits of flood water in an approved upland disposal site.

PROJECT LOCATIONS

Location #1

WORK START: December 24, 2013				WORK END: August 02, 2016		
WRIA: 26.0540		Waterbody: Silver Creek (rb)		Tributary to: Cowlitz River		
1/4 SEC:	Section:	Township:	Range:	Latitude:	Longitude:	County:
W 1/2	04	12 N	02 E	N		Lewis
Location #1 Driving Directions						

APPLY TO ALL HYDRAULIC PROJECT APPROVALS

This Hydraulic Project Approval pertains only to those requirements of the Washington State Hydraulic Code, specifically Chapter 77.56 RCW (formerly RCW 77.20). Additional authorization from other public agencies may be necessary for this project. The person(s) to whom this Hydraulic Project Approval is issued is responsible for applying for and obtaining any additional authorization from other public agencies (local, state and/or federal) that may be necessary for this project.



Forest Practices Act Notice to Comply

PC-NTC-11-08869

1. F.P. App. No. 2922943		2. Region PC		3. County Lewis		4. Class of Forest Practice <input type="checkbox"/> Class II <input type="checkbox"/> Class IV General <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Class IV Special		5. Legal Subdivision NW/4	
6. Landowner Larry & Nancy Mason		7. Timber Owner Tree Agent Saw as Lot Plus 3rd Tree Agent Plus		8. Operator Tree Agent Plus		Section 4		Township 12	
Address 526 Clineban RD		Address P.O. Box 311		Address P.O. Box 311		Rge. E/W 2E			
City Clineban WA 98533		City Ethel WA 98542		City Ethel WA 98542					
Under Authority of Ch. 76.09 RCW, Title 222 WAC— Name of Violator <u>N/A</u> You are hereby given this NOTICE TO COMPLY in connection with violation(s), deviation(s), damage(s), or potential damage(s) described below.									
9. Reasons for Notice		<input checked="" type="checkbox"/> Deviation from approved application <input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Unauthorized <input type="checkbox"/> Violation of Forest Practices Act and/or Rules <input type="checkbox"/> Immediate action is necessary to prevent continuation of or to avoid material damage to a public resource.				10. Damage Amount \$ <u>n/a</u>			
						11. Damage Assessed by <u>n/a</u>			
12. Description of violation(s), deviation(s), damage(s), or potential damage(s): - This FPA was inadvertently approved before the ID team meetings for the Alternate Plan. - This NTC documents the change to the FPA & AP.									
13. Violation of WAC(s): <u>n/a</u>					14. Violation Observed: _____ at _____ Mo. Cy Yr am/pm				
					15. Steps described in #16 must be completed by: _____ Date				
16. You must complete the following steps: - The Buffer Width on the East side of Stream A will be the Forested Wetland / Associated wetland edge Plus one Row of Trees.									
17. The operator, timber owner or forest landowner may request a hearing before the DNR to review this Notice to Comply. To be valid, any such request must be filed in writing with the DNR within fifteen (15) calendar days of <u>8/4/11</u> Date of Service. CONTACT <u>Pacific Cascade</u> Region Office with any questions, phone <u>360 577-2025</u>									
18. Signature of Person Order Given/Mailed to <u>[Signature]</u>		19. Date of Service <u>8/4/11</u>		20. Signature of Compliance Officer <u>[Signature]</u>					
21. (Office Use Only) Date _____ Initials _____		22. Title of Compliance Officer <u>FP Forester</u>				23. Position No. <u>3117</u>			
Copies sent to: <input type="checkbox"/> Timber Owner, <input checked="" type="checkbox"/> Land Owner, <input type="checkbox"/> FPO, <input type="checkbox"/> FP Coord, <input checked="" type="checkbox"/> Other Agencies <u>WDFW-Brummer;</u> <input checked="" type="checkbox"/> Other <u>WE-Crober; Yakama-Morris; FPE; FPDM; FP File; FPARS; USFWS;</u> <u>Cowitz Tribe, Admin</u>									



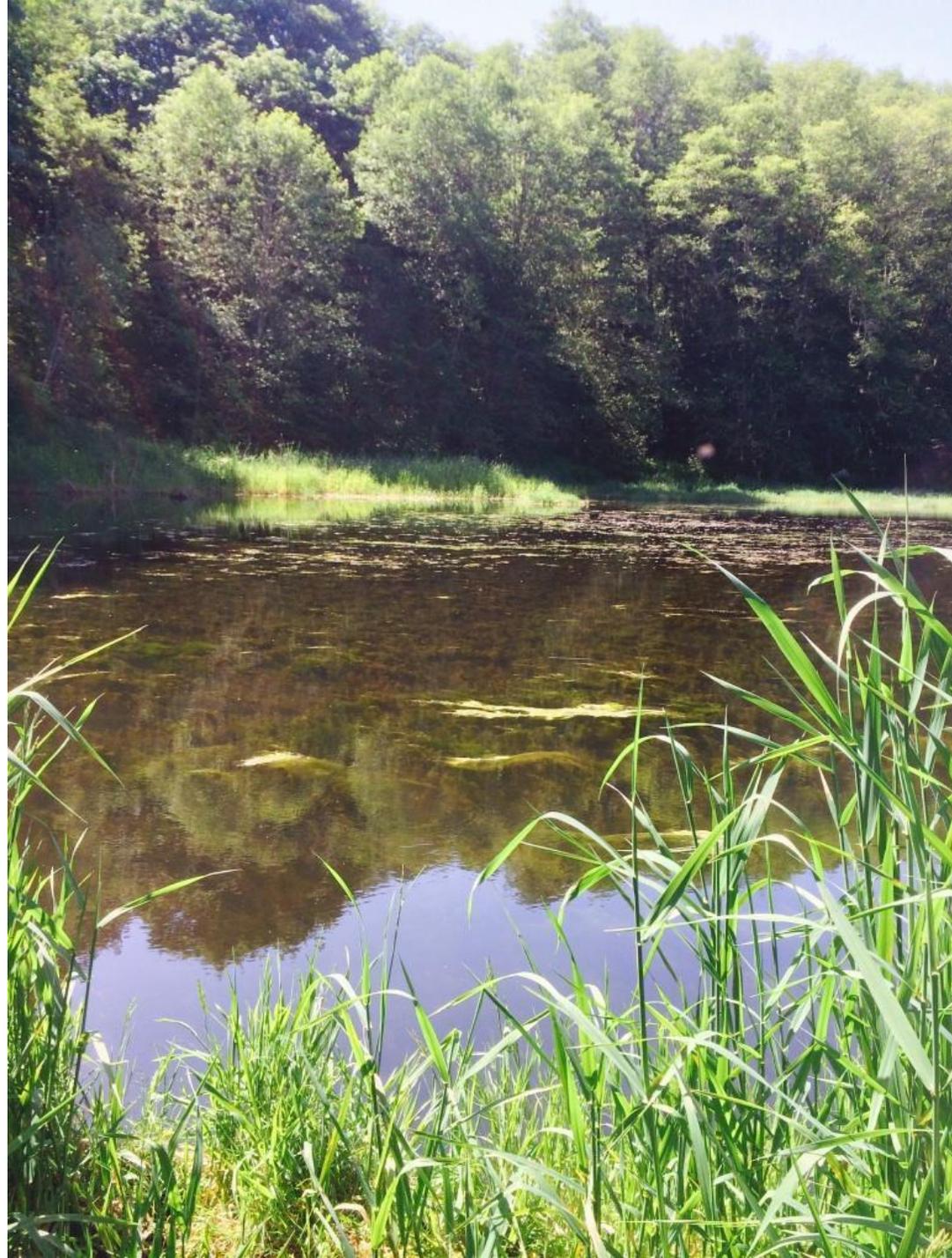
ID team meeting and process & results

- ID team meeting consisted of Representatives from DOE, Tribes , WDFW, DNR SFLO, DNR Forest Practice Forester, and Myself
 - Each ID team meeting starts with a overview of the AP that is being proposed
 - Then a walking tour of the property looking at streams, flagging of buffers ect.
 - During the waking tour is when you my or my not have to negotiate
 - Agreed to Edge of Forested wetland / Associated wetlands is edge of BFW
 - Agreed to Buffer along E. side Stream A is Forested / Associated Wetland edge plus one row of trees
 - Buffer on W. side of Stream A will be as proposed
 - ID team meetings are challenging
 - Basically got the proposal that was requested with minor adjustments

A Hardwood Conversion Case Study

Mason Property Field Trip

- Intro of property- Residents, Mixed use, 140ac ownership, 40 ac Timber
- Review FPA and orientate tour group on ownership boundaries
- Stop #1-Walk tour down to walking bridge/ f stream
- Stop#2- Walk across bridge to conversion site-discuss BFW measurement/prescription walk to middle of area and get a good look at pond
- Stop#3- Walk to end of trail and discuss operational restraints ect.
- Stop#4- Discuss site prep, planting, animal damage, and maintenance of stand
- End of tour







Questions ?

