FPA/N #: -2940863-
Received Date: 9/28/2022
Complete Date: 9/28/2022
WDFW Concur Due Date:
WDFW Concur Received:
Comments Due Date: 10/11/2022
Decision Due Date: 10/27/2022
FP Forester: Curtis 3290
Shutdown Zone: 655

**Forest Practices Application/Notification**
# Office Checklist Page 1
**Pacific Cascade Region**

**FPA/N CLASSIFICATION:** ☐ II ☒ III ☐ IVG ☐ IVS ☐ FFFPP ☐ 20-Acre Exempt

**Landowner Name:** Weyerhaeuser **Project Name:** Harp Rd A-6130 Units & Roads

WRIA: ~~WAU~~:
WRIA: Upper Chehalis WAU: Independence Creek
WRIA: WAU:
Legal Description: 13, 24-15-05W County: Lewis
Activity Type: Harvest 71 ac Spray ac Crossing(s) #
Road Construction 1750 ft Road Abandonment ft Rock Pit ac Spoils cy

**ALTERNATIVE PRESCRIPTIONS**
- ☐ Alternate Plan ☐ Fixed Width ☐ Overstocked
- ☐ Ten-Year Forest Management Plan
- ☐ Columbia River Nat Scenic Area ☐ GMA ☐ SMA
- ☐ Watershed Analysis:
- ☐ Habitat Conservation Plan ☐ HCP Crosswalk(s)
- ☐ Landowner Option Plan for Northern Spotted Owl
- ☐ Cooperative Habitat Enhancement Agreement

**RESOURCE REVIEW**
- ☒ Potential Unstable Slopes
  - ☐ Highly Erodible ☐ Very Unstable ☐ HMWP
  - ☒ SLPSTAB
  - ☐ Landslide Inventory Polygon
- ☐ Avalanche Area ☐ Potential ☐ High
- ☐ Rain-on-Snow ☐ Outside Approved WA
- ☐ Hydric Soils
  - ☐ Wetland ☐ Forested, ☐ A, ☐ B
- ☐ In WMZ of ☐ A, or ☐ B Wetland
- ☒ In RMZ/ELZ of Type ☐ S, ☒ F, ☒ N water
- ☒ Water Verification
- ☒ In or Over Typed Water ☐ S ☒ F ☒ Np ☒ Ns
- ☐ Bald Eagle nest or roost within 660 feet
- ☐ Group A or B Water Supply
- ☐ Hatchery Name:
- ☐ Even-Aged Harvest greater than 120 Acres
- ☒ Ground-based Equipment on Slopes greater than 40%
- ☐ Road Construction on Slopes greater than 65%

**ASSOCIATED NON-SCANNED DOCUMENTS** – On file with the FPA/N at the Region office.
- ☐ SEPA Checklist/Documents
- ☒ Road Maintenance and Abandonment Plan # 2502051

**ASSOCIATED SCANNED DOCUMENTS**
- ☐ COHP ☐ SEPA DNS/MDNS ☐ LGE Permit(s)/Info
- ☐ FPHP Plans & Specifications
- ☐ Qualified Expert Report; Type: ☐ GEO Memo/Report
- ☐ Natural Regeneration Plan
- ☐ Shoreline Permit
- ☒ Marbled Murrelet Form
- ☐ SFLO RMAP Checklist #
- ☐ CMZ Assessment Form
- ☐ ICN #
- ☐ Hardwood Conversion Form
- ☐ Wetland Mitigation Plan P C-23-22-0116
- ☐ Water Protocol Surveys
- ☒ New ☐ Under Review WTMF#
- ☒ Water Classification Worksheet
- ☐ Shade Documentation/Worksheet
- ☐ Watershed Analysis Worksheet
- ☒ DFC Printout
- ☒ Slope Stability Informational Form

**ADDITIONAL COMMENTS:** EARR Tax Credit ☒ Yes ☐ No Form completed by TS/m
- ☐ ¼ Mile Disturbance Avoidance
- ☒ Biomass
- ☒ Salvage
- ☐ Fish Timing Restrictions

| For DNR Region Office Use Only | |
|---|---|
| FPA/N #: | -2940863- |
| Region: | Pacific Cascade |
| Received Date: | 9/28/2022 |

# Forest Practices Application/Notification
# Western Washington

**Project Name:** Harp Rd A-6130 Unit & Rds

**PLEASE USE THE INSTRUCTIONS TO COMPLETE THIS APPLICATION.**

## 1. Landowner, Timber Owner and Operator

| Legal Name of LANDOWNER | Legal Name of TIMBER OWNER | Legal Name of OPERATOR |
|---|---|---|
| Weyerhaeuser Timber Holdings, Inc. | ☐ Same as Landowner<br>Weyerhaeuser NR | ☐ Same as Landowner<br>Weyerhaeuser NR |
| Mailing Address:<br>1098 Muller Rd. | Mailing Address:<br>1098 Muller Rd. | Mailing Address:<br>1098 Muller Rd. |
| City, State, Zip:<br>Pe Ell, WA, 98572 | City, State, Zip:<br>Pe Ell, WA, 98572 | City, State, Zip:<br>Pe Ell, WA, 98572 |
| Phone: (360) 520-6549<br>Email: daniel.duncan@weyerhaeuser.com | Phone: (360) 291-5516<br>Email: trevor.kaech@weyerhaeuser.com | Phone: (360) 291-5516<br>Email: trevor.kaech@weyerhaeuser.com |

## 2. Contact Person

| Contact Person: | Phone: (360) 520-6549 |
|---|---|
| Daniel Duncan | Email: daniel.duncan@weyerhaeuser.com |

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

☒No ☐Yes If yes, include your SEPA checklist and SEPA determination (if applicable) and county clearing and grading permit (if applicable).

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

800-070-834

*Contact the Department of Revenue at 1-800-548-8829 for tax reporting information or to obtain a number.*

**a. Are you eligible for EARR Tax Credit?** ☐No ☒Yes

**5. Are you a small forest landowner per RCW 76.09.450? See instructions**

☒No ☐Yes If yes, **Check all that apply**. If no, skip to Question 6.

- ☐ My entire proposed harvest area is on a single contiguous ownership consisting of one or more parcels.
- ☐ My proposed forest practices activities are within an area covered by an approved Forest Stewardship Plan or Forest Management Plan developed in cooperation with DNR.
- ☐ I received technical assistance from a DNR small forest landowner Stewardship and Technical Assistance Forester in preparing this FPA/N.
- ☐ I have participated in a Washington State University Extension Service and/or DNR-sponsored Forest Stewardship Coached Planning course.
- ☐ I have attended a Washington State University Extension Service and/or DNR-sponsored Family Forest Owner Field Day.

**6. 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 prescriptions and/or crosswalks for approved state or federal conservation agreements or Watershed Analysis on file at the Region office.

**7. What is the legal description of your forest practices?**

| Section | Township | Range | E/W | Tax Parcel Number | County |
|---|---|---|---|---|---|
| 13 | 15N | 05 | W | | Lewis |
| 24 | 15N | 05 | W | | Lewis |
| | | | | | |
| | | | | | |
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**8. 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 If you made any contacts, please provide information in Question 28.

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

☐ No Is a Small Forest Landowner RMAP Checklist required (see instructions)? ☐No ☐Yes

☒ Yes Enter your RMAP number: R2502051

Is this FPA/N for work that is included in this approved RMAP? ☒ No ☐ Yes

**10. Are there potentially unstable slopes or landforms in or around the area of your forest practices activity?**

☐No ☒Yes If yes, attach Appendix D. Slope Stability Informational Form and map of areas reviewed for and locations of unstable slopes and landforms found. If applicable, attach a geotechnical letter, memo, or report, Watershed Analysis prescriptions, and/or a SEPA Environmental Checklist.

**11. Is this Forest Practices Application/Notification (answer every question):**

a. ☒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.

b. ☒No ☐Yes An Alternate Plan? If yes, include a template or detailed plan. See instructions for details.

c. ☒No ☐Yes For a funded Forest Family Fish Passage Program project?

d. ☒No ☐Yes Within an urban growth area? If yes, see instructions for additional required documents.

e. ☒No ☐Yes Within a public park? If yes, include SEPA Environmental Checklist or SEPA Determination, except for harvest/salvage of less than 5,000 board feet within a developed public park. Park name: _____

f. ☒No ☐Yes Within 500 feet of a public park? Park name: _____

g. ☒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.

h. ☒No ☐Yes Within 200 feet 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.

i. ☐No ☒Yes Within 50 miles of saltwater AND you own more than 500 acres of forest land in Washington State? If yes, include 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 CMZ Assessment Form. Attach/reference applicable HCP and/or Watershed Analysis prescriptions.

**You are required to verify all waters within 200 feet of your proposed forest practices activities prior to submitting a Forest Practices Application / Notification. Use 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.**

* * * * * **<u>If not working in or over typed Waters, skip to Question 16</u>** * * * * *

**Prior to answering Questions 13-16 in this section please refer to the Forest Practices Application Instructions and Forest Practices Board Manual Section 5.**

**12. 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)?

**13. Have you consulted with DNR and/or WDFW about the proposed hydraulic project(s) in or over Type S or F Water?** ☒ No ☐ Yes

**14. If installing, replacing, removing, or maintaining structures in or over any typed Water, complete the table below.** Provide crossing locations and identifiers on your Activity Map. Provide plan details in Question 28 or attach plan to the FPA/N. Type S and F Waters require detailed plan information. Complex hydraulic projects in Type N Waters may also be required per WAC 222-24-042(2). See instructions for detailed plan requirements.

| **Crossing Identifier** *(letter, 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** *(bridge, ford/equipment crossing** puncheon/fill, arch, pipe arch, round culvert, other)* | **Proposed Size** *(width x length)* | **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)* | **Is this an RMAP Project?** |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
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*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/or equipment crossings on Type S and F Waters may result in an unauthorized incidental take of certain threatened or endangered fish species. For more information, see 'Background for the State's Incidental Take Permits for certain threatened and endangered fish species' following Question 22 of the FPA/N Instructions.

**15. If conducting any of the following activities in or over typed Water(s), complete the table below. Some activities will require identifiers on the Activity Map and/or more information in Question 28. See instructions.**

| ***Activity** | **Type S Water** | **Type F Water** | **Type Np Water** | **Type Ns Water** |
|---|---|---|---|---|
| Equipment Crossing** | **PROVIDE DETAILS IN QUESTION 14** | | X | X |
| Suspending Cables | | X | X | X |
| Cable Yarding | | | X | X |
| LWD Placement/Removal | | | | |
| Beaver Dam Removal | | | | |
| Felling and Bucking | | | X | X |
| Other *(describe in Question 28)* | | | | |

** Fords and/or equipment crossings on Type S and F Waters must be identified in Question 14.

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

| **Road Identifier** *(name, number)* | **Road Construction** | | **Road Abandonment** | |
|---|---|---|---|---|
| | **Length** *(feet)* | **Steepest Side-slope** *(%)* | **Length** *(feet)* | **Abandonment Date** |
| Spur A | 1000 | 20 | | |
| Spur B | 750 | 10 | | |
| | | | | |

17. **If depositing spoils and/or expanding or developing a rock pit for forestry use, complete the table below. Show locations and identifiers on the 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 |
|---|---|---|
| | | |
| | | |
| | | |

18. **If operating within 200 feet of a wetland that is not associated with Type S or F Water, complete the table below. Wetlands associated with Type S or F water should be listed in Question 25. Show the boundaries of each wetland, along with its identifier, and Wetland Management Zones on the Activity Map. See instructions for information.**

| Wetland Identifier *(letter, number)* | Wetland Type *(A, B, Forested)* | Planned Activities in Wetland | Planned Activities in Maximum Width WMZ | Total Wetland Acres | How many Acres will be drained? | How many Acres will be filled? |
|---|---|---|---|---|---|---|
| | | | | | | |
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* * * * * **<u>If not harvesting or salvaging timber, skip to Question 27</u>** * * * * *

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

| Unit Number | Harvest Type *(Even-aged, Uneven-aged, Salvage, Right-of-Way)* | Biomass Harvest *(Y or N)* | Harvest Method *(rubber tired skidder, tracked skidder, dozer, shovel, full suspension cable, leading end suspension cable, helicopter, cable assist/tethered logging, animal, chipper, forwarder, slash bundler)* | Acres to be Harvested | Volume to be Harvested *(mbf)* | Biomass Volume to be Harvested *(tonnage)* | Volume to be Harvested *(%)* | Steepest Slope in Harvest Unit *(%)* |
|---|---|---|---|---|---|---|---|---|
| 1 | Even-aged | N | Shovel, Cable Assist, Cable | 69.3 | 2356 | 0 | 100 | 70 |
| 1 | Right-of-Way | N | Shovel | 1.7 | 57.8 | 0 | 100 | 70 |
| 1 | Fiber Recovery | Y | Shovel | 69.3 | 0 | 400 | 100 | 70 |
| 1 | Cedar Salvage | N | Helicopter | 69.3 | 0 | 0 | 75 | 70 |
| | | | | 71 | 2413.8 | | | |
| | | | | | | | | |
| | | | | | | | | |

**20. Reforestation. Check all that apply:**

☒ Planting. Tree Species: Douglas Fir

☐ 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 them.
- ☐ Road right-of-way or rock pit development harvest only.

*** * <u>Do you own MORE than 80 acres of forest land in Washington? If yes, skip to Question 25</u> * ***

**21. Are you using the exempt 20-acre parcel riparian management zone (RMZ) rule (WAC 222-30-023) on Type S, F, or Np Waters?**

☐ No Skip to Question 25.

☐ Yes Continue to Question 22. See instructions for qualifications and information.

**22. Choose the answer below that best fits your situation. Show all RMZs on the 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 forest land in Washington.
- Between June 5, 2006 and today's date this parcel has always been 20 acres or less of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
- 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 forest land in Washington.

**b.** ONE OR MORE of the following apply to me and/or my land (check all that apply):
***If any of the statements below apply AND you use the exempt 20-acre parcel RMZ rule, you are NOT authorized under the State's Incidental Take Permits (see explanation in FPA instructions under Question 22).***

- ☐ Between June 5, 2006 and today's date I have owned more than 80 acres of forest land in Washington.
- ☐ Between June 5, 2006 and today's date this parcel has been a part of more than 20 acres of contiguous ownership. See RCW 76.09.020 for definition of 'contiguous'.
- ☐ 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.

**23. 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 the Activity Map.** If you are harvesting within 75 feet or within the maximum RMZ (whichever is less), stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met, using the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

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

**24. Are you harvesting within 29 feet of a Type Np Water on an exempt 20-acre parcel?**

☐ No Skip to Question 27.

☐ Yes See instructions and describe leave tree strategy in Question 28. Then skip to Question 27.

**25. If harvesting within 200 feet of any Type S or F Water or periodically inundated areas of their associated wetlands, complete the table below. Include Desired Future Condition (DFC) for all inner zone harvests unless you have an HCP prescription. Show RMZs, CMZs, and stream segment identifiers on the Activity Map.** If you are harvesting within 75 feet or within the maximum RMZ, whichever is less, stream shade must be assessed and met following harvest. Describe in Question 28 how stream shade was determined to be met or use the 'Appendix F. Stream Shade Assessment Worksheet' if necessary.

| **Stream Segment Identifier** *(letter)* | **Water Type** *(S, F)* | **Site Class** *(I - V)* | **Stream Width** *(feet)* | **Is there a CMZ?** *(Y or N)* | **RMZ Harvest Code(s)** *(see instructions)* | **DFC Run Number** | **Total width of RMZ** *(feet)* |
|---|---|---|---|---|---|---|---|
| F1 | F | II | <10 | N | E,L,M | 66342 | 170 |
| F2 | F | II | <10 | N | E,L,M | 66341 | 170 |
| | | | | | | | |
| | | | | | | | |

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

| **Stream Segment Identifier** *(letter)* | **Total Stream Length in Harvest Unit** *(feet)* | **Length of No-Harvest, 50-foot Buffers in Harvest Unit** *(feet)* |
|---|---|---|
| Np System A | 1889 | 974 |
| Np B | 470 | 412 |
| Np C | 250 | 250 |
| Np D | 150 | 150 |

| **Stream Segment Identifier** *(letter)* | **Total Stream Length in Harvest Unit** *(feet)* | **Length of No-Harvest, 50-foot Buffers in Harvest Unit** *(feet)* |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**27. How are the following currently marked on the ground?** *(Flagging color, paint color, road, fence, etc.)*

Harvest/Salvage Boundaries: Blue paint & Pink flagging

Clumped Wildlife Reserve Trees/Green Recruitment Trees: Blue paint & Pink Flagging

Right-of-Way Limits/Road Centerlines: Orange Flagging C/L, Pink Paint R/W

Stream Crossing Work: N/A

Riparian Management Zone Boundaries and Leave/Take Trees: Blue paint & pink/blue & white striped flagging

Channel Migration Zone: N/A

Wetland Management Zone Boundaries and Leave/Take Trees: N/A

**28. Additional Information (attach additional pages if necessary):** For hydraulic projects in or over Type S, F, or complex N Water(s) see instructions for required plan information. If applicable, include mitigation measures from a geotechnical memo, letter, or report.

Np Streams have been buffered to worksheet.

For more informartion see Activity Map.

**29. 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 any portion of 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.
- Inadvertent Discovery – Chapters 27.44, 27.53, 68.50 and 68.60 RCW
  - If you find or suspect you have found an archaeological object or Native American cairn, grave, or glyptic record, immediately cease disturbance activity, protect the area and promptly contact the Department of Archaeology and Historic Preservation at 360 586-3077.
  - If you find or suspect you have found human skeletal remains, immediately cease disturbance activity, protect the area, and contact the County Coroner or Medical Examiner and local law enforcement as soon as possible. Failure to report human remains is a misdemeanor.

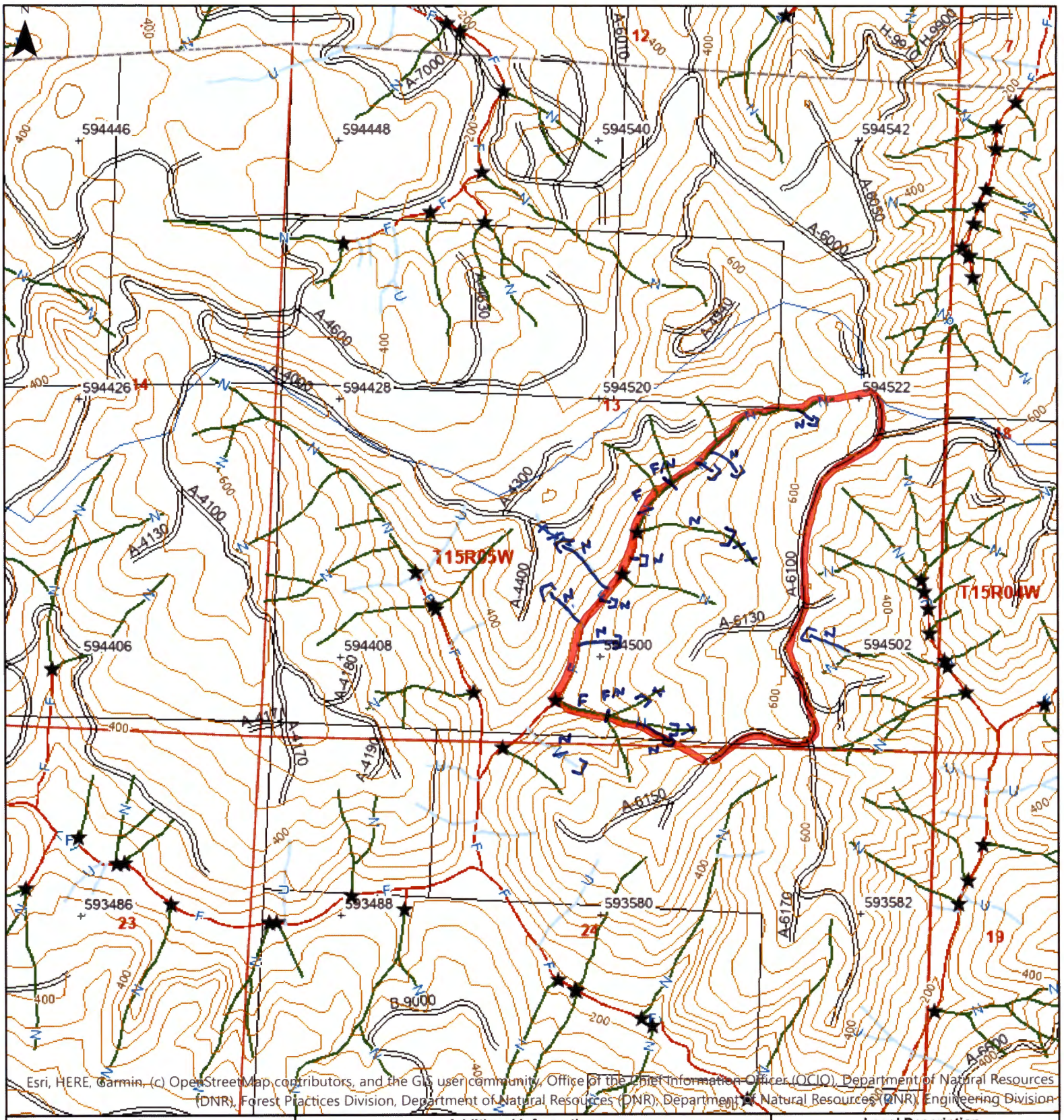
**The landowner understands that by signing and submitting this FPA, he/she is authorizing the Department of Natural Resources to enter the property in order to review the proposal, inspect harvest operations, and monitor compliance for up to three years after its expiration date. RCW 76.09.150**

| Signature of Legal LANDOWNER | Signature of Legal TIMBER OWNER* *(If different than landowner)* | Signature of Legal OPERATOR *(If different than landowner)* |
|---|---|---|
| Daniel Duncan<br>Print Name: Daniel Duncan<br>Date: 09/27/2022 | Trevor Kaech<br>Print Name: Trevor Kaech<br>Date: 09/27/2022 | Trevor Kaech<br>Print Name: Trevor Kaech<br>Date: 09/27/2022 |

** 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 Activity Map - Application # -2940863-

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## Map Symbols

- Harvest Boundary
- Road Construction
- Stream
- RMZ / WMZ Buffers
- Rock Pit
- Landing
- Waste Area
- Clumped WRTS/GRTS
- Existing Structure

## Additional Information

- ~HARVEST UNIT
- STREAM LOCATION
- xxx - DOES NOT EXIST
- F/N - F/N BREAK

## Legal Description

S11 T15.0N R05.0W, S12 T15.0N R05.0W, S18 T15.0N R04.0W, S14 T15.0N R05.0W, S24 T15.0N R05.0W, S23 T15.0N R05.0W, S13 T15.0N R05.0W, S19 T15.0N R04.0W, S07 T15.0N R04.0W

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

Extreme care was used during the compilation of this map to ensure its accuracy. However, due to changes in data and the need to rely on outside information, the Department of Natural Resources cannot accept responsibility for errors or omissions, and therefore, there are no warranties that accompany this material.

Approximate Scale : 1:12,000

0 0.06 0.12 0.18 0.24 Miles

Date: 9/26/2022 Time: 11:20 AM

County: Lewis, WA

Watershed: Independence Creek

Decimal Degrees

Lat 46.783316 N

Long -123.251524 W

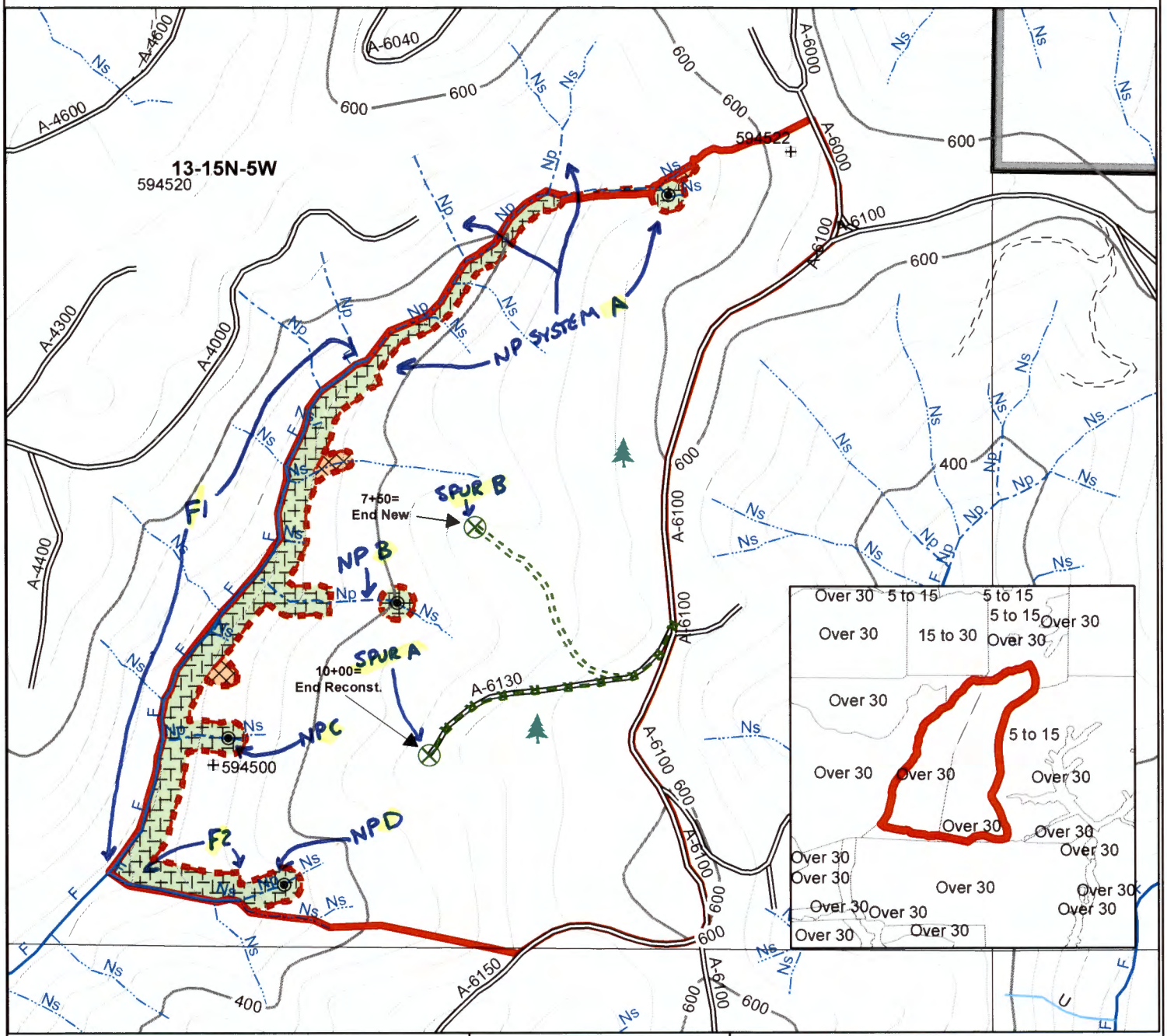
Weyerhaeuser

# Harp Rd A-6130
## Pe Ell
## Setting FPA Map
## 13-15N-5W

HPU: 455920

FPA:

-2940863-




Culvert
UPPF
Landing
Loggers Choice
Rock Pit
Tail Tree
Spoil Area
Wildlife Tree
Water System
Bridge
DNR Tic
Tract
Yarding Direction

Domestic/Municipal Water Line
Overhead Utility
Underground Utility
Undefined Utility

**Harvest Method**

Cable
Ground / Thinning
Harvestable Forested Wetland
RMZ
Unstable
WTA, LTA, RLA
CMZ
WMZ
Non-Forest
Wetland Type A or B
Other

**Engineered Roads**

New Construction
M — M Maintenance
R — R Reconstruction
L — L Loggers Choice
T — T Temporary
X — X Abandon

**Existing Roads**

Street/Highway
Paved
Gravel
Dirt
Undriveable

| Acres | |
|---|---|
| Net Harvestable | 71 |

| Road Acres | |
|---|---|
| Timbered R/W | |
| Existing R/W | 3.5 |
| New R/W | 1 |

Notify Engineer if survey corner is disturbed

Comments ACTIVITY MAP

0 200 400 Feet

1 inch = 500 feet

AUID: 100729016

Org: 121

Creator: DUNCAND

Printed 9/26/2022

MUN 455920 | Hard Road A-6130

13-15N-5W | 9-27-22

-2940863-

# Marbled Murrelet Form

## Western Washington Forest Practices Application/Notification

***Complete this form only if you are harvesting timber (including salvage) or constructing roads. Do not complete this form if you have an HCP for marbled murrelets.***

**Answer every question.**

1. ☒ No ☐ Yes For this FPA/N, has a protocol survey(s) been completed that includes:
   - Harvest units (and within 300 ft on your ownership), **or**
   - Salvage units (and within 300 ft on your ownership), **or**
   - Any area of proposed road construction (and within 300 ft on your ownership)?

*If 'Yes', fill out the table and check the appropriate findings below.*

| Survey ID (Name or Unit #) | Township, Range, & Section | Survey was approved by WDFW (Attach approval letter from WDFW) | Survey was disapproved by WDFW and is being resubmitted with this FPA/N (Explain below) | Survey has been submitted to WDFW and survey approval is unknown (Explain below) | Survey is complete but has not yet been submitted to WDFW (Submit survey with FPA/N) |
|---|---|---|---|---|---|
| | | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections |
| | | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections |
| | | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections | ☐ Occupancy<br>☐ Presence<br>☐ No Detections |

Explanation:

2. ☒ No ☐ Yes ☐ Unknown Will you harvest, salvage, or construct roads within 0.25 miles of an occupied site?

3. ☒ No ☐ Yes ☐ Unknown Will you fly helicopter(s) over or within 0.25 miles of an occupied site?

4. ☒ No ☐ Yes Will you harvest *live* trees in a buffer of an occupied site?

   If Yes, describe the leave trees and buffer widths you will leave. *NOTE: If you leave less than required in WAC 222-16-080(1) (h) (v) this is a Class IV-Special and an Environmental Checklist is required*

Description of managed buffers:

5. ☒ No ☐ Yes Are there nesting platforms within any harvest unit (including salvage and road construction) that are within 300 feet that:

- Are not located within a surveyed area, **and;**
- Have a minimum of 2 platforms per acre, **and**;
- Are located within 7 or more acres of contiguous habitat, **and;**
- Have a least 40% (number not volume) of the dominant and co-dominant trees made up of Douglas-fir, western hemlock, western red cedar, or Sitka spruce?

*If "Yes", complete the table below for those areas.*

| Name or # (as shown on map) of delineated stands of contiguous habitat | Delineated stand acres | Nesting platforms per acre | Number of trees 32 inches dbh or greater with platforms | Platform Assessment Method<br>Field Sampling Method, Sample Plot Method, 100% Cruise Method, Inventory Model Method, or Other |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

6. ☒ No ☐ Yes Are there areas within this forest practice or within 300 feet that:

- Are not surveyed, **and**;
- Are not listed in question 5, **and;**
- Have trees that are at least 32 inches dbh

If "Yes", list the forest practice unit numbers from your activity map. Provide brief description of current stand conditions. Such as tree species composition, stand age (if known), and maximum tree size (dbh).

Harvest Unit #(s)_____ ☐ Within the Unit ☐ Within 300 feet of the Unit

Description:

Harvest Unit #(s)_____ ☐ Within the Unit ☐ Within 300 feet of the Unit

Description:

Harvest Unit #(s)_____ ☐ Within the Unit ☐ Within 300 feet of the Unit

Description:

7. If you answered yes to question 1, 4, or 5, include a map (separate from your map that shows your harvest units and/or road construction) *See the instructions for the information required on each map.*

# Appendix D. Slope Stability Informational Form

Complete and attach this form to your FPA/N if you indicated you are working in or around potential unstable slopes or landforms. Instructions for this appendix is located in in the Forest Practices Application/Notification Instructions document. Refer to WAC 222-16-050(1)(d) and Forest Practices Board Manual Section 16 - *Guidelines for Evaluating Potentially Unstable Slopes* for definitions and descriptions of potentially unstable slopes or landforms.

**1. a.** What preliminary screening tools were used to identify unstable slopes or landform features in and/or around your proposal?

☒ Aerial Photo ☒ LiDAR ☐ Landslide Inventory ☐ GIS ☒ Field Review ☐ Other, describe:

**b.** Did any of the features identified during the preliminary screening (1.a.) not exist when you performed a field review? ☒ No, go to Question 2.a. ☐ Yes, describe:

**2. a.** Are you conducting forest practices activities **in or over** potentially unstable slopes or landforms?

☐ Inner Gorge ☐ Groundwater recharge areas for glacial deep-seated landslides
☐ Bedrock Hollow ☐ Convergent Headwall ☐ Outer edges of meander bends
☐ Toe of deep-seated landslide with slopes ≥ 65%
☐ Category E - see instructions and describe below *(i.e.: Active deep-seated landslides and others)*
☐ Other, describe:

**b.** What activities may occur **in or over** potentially unstable slopes or landforms? Check all that apply:

☐ Timber harvest ☐ Road construction ☐ Suspending cables ☐ Yarding ☐ Tailholds

**3. a.** Are you conducting forest practices activities **around** potentially unstable slopes or landforms?

☒ Inner Gorge ☐ Groundwater recharge areas for glacial deep-seated landslides
☐ Bedrock Hollow ☐ Convergent Headwall ☐ Outer edges of meander bends
☐ Toe of deep-seated landslide with slopes ≥ 65%
☒ Category E - see instructions and describe below *(i.e.: Active deep-seated landslides and others)*
☐ Other, describe:
Stream adjacent storm related failures

**b.** What activities may occur **around** potentially unstable slopes or landforms? Check all that apply:

☒ Timber harvest ☒ Road construction ☒ Suspending cables ☒ Yarding ☒ Tailholds

**4. a.** Were any features identified in Question 3.a. excluded from your forest practices activity?

☐ No, go to Question 5. ☒ Yes, continue to Question 4.b.

**b.** Describe the field indicators you used to exclude potentially unstable slopes or landforms from your forest practices activity *(i.e.: flagging was placed a crown width away from the break in slope of the inner gorge.)*:

Features were bounded out at the break in slope between 70-80% two rows back with blue paint and pink/yellow & black flagging.

**5.** Are there areas of public use located in or around the area of your proposed forest practices activity?

☒ No, go to Question 6 ☐ Yes, check all that apply and show locations on the map in Question 7.

☐ Public Road(s) ☐ Utilities ☐ Designated Recreation Area(s) ☐ Occupied Structure(s)

☐ Other, describe:

**6.** Complete the table below with date(s) and person(s) that conducted field review(s):

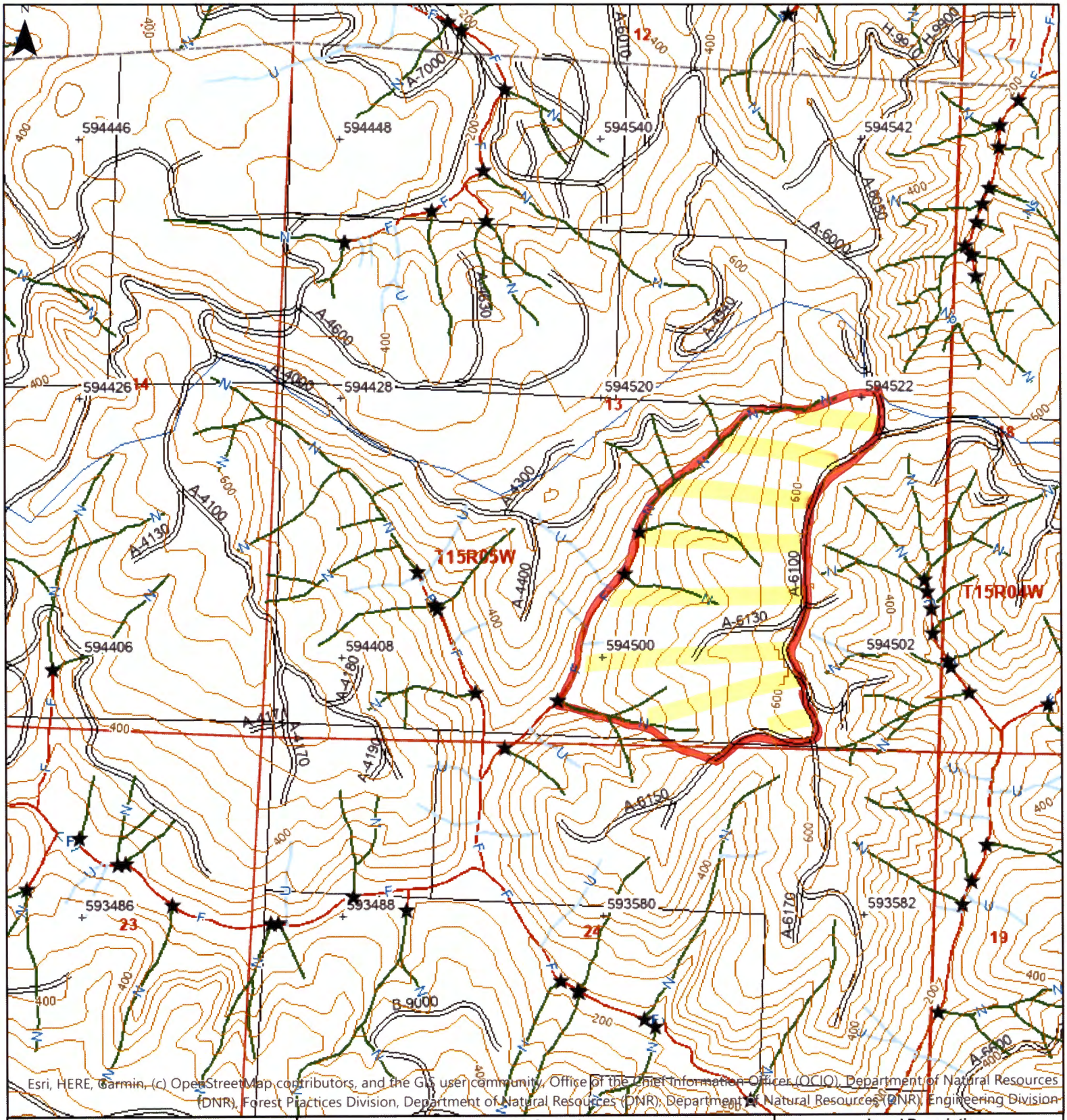
| Date | Name | Title/Position |
|---|---|---|
| 9/22/2022 | Daniel Duncan | Engineering specialist |
| | | |
| | | |
| | | |
| | | |
| | | |

**7.** Attach a map that shows the following:

- Show all areas reviewed.
- Show locations of unstable slopes and landforms that were identified as described in Question 2.a. and 3.a. above.
- Show locations where areas of public use exist as described in Question 5 above.

This map is intended to be developed by the field practitioner. This can be a forest practices activity map, harvest map, or GIS map – See instructions for example map.

# Forest Practices Activity Map - Application # -2940863-




Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Office of the Chief Information Officer (OCIO), Department of Natural Resources (DNR), Forest Practices Division, Department of Natural Resources (DNR), Department of Natural Resources (DNR), Engineering Division

**Map Symbols**

- Harvest Boundary
- Road Construction
- Stream
- RMZ / WMZ Buffers
- Rock Pit
- Landing
- Waste Area
- Clumped WRTS/GRTS
- Existing Structure

**Additional Information**

- HARVEST UNIT
- AREA REVIEWED FOR UNSTABLE

**Legal Description**

S11 T15.0N R05.0W, S12 T15.0N R05.0W, S18 T15.0N R04.0W, S14 T15.0N R05.0W, S24 T15.0N R05.0W, S23 T15.0N R05.0W, S13 T15.0N R05.0W, S19 T15.0N R04.0W, S07 T15.0N R04.0W

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

Extreme care was used during the compilation of this map to ensure its accuracy. However, due to changes in data and the need to rely on outside information, the Department of Natural Resources cannot accept responsibility for errors or omissions, and therefore, there are no warranties that accompany this material.

Approximate Scale : 1:12,000

0 0.06 0.12 0.18 0.24 Miles

Date: 9/26/2022 Time: 11:20 AM

# Appendix A. Water Type Classification Worksheet
## Western Washington

| Stream/Segment ID: Np system A | Stream/Segment ID: Ns15 | Stream/Segment ID: Np B |
|---|---|---|
| Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 |

**1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics?** ***[See WAC 222-16-031(3)(b)(ii)]***

| | | |
|---|---|---|
| ☐ No. Continue | ☐ No. Continue | ☐ No. Continue |
| ☒ Yes. Attach documentation or approved WTMF number: PEL-41A-2021 | ☒ Yes. Attach documentation or approved WTMF number: PEL-41B-2021 | ☒ Yes. Attach documentation or approved WTMF number: PEL-42-2021 |
| ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. |
| ☒ No fish. Continue to 6. | ☒ No fish. Continue to 6. | ☒ No fish. Continue to 6. |
| ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. |

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

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

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

| | | |
|---|---|---|
| ☒ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. | ☒ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☒ No. Continue. | ☐ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes. Type Np water. Go to 9 | ☐ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☒ No. Continue. | ☐ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes, Type Ns water. | ☒ Yes, Type Ns water. | ☐ Yes, Type Ns water. |
| ☐ No, non-typed water. | ☐ No, non-typed water. | ☐ 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: Np System A | Stream/Segment ID: | Stream/Segment ID: Np B |
|---|---|---|
| UMPPFs determined during harvest unit field review. | | UMPPF determined during harvest unit field review |

# Appendix A. Water Type Classification Worksheet

## Western Washington

| Stream/Segment ID: Np C | Stream/Segment ID: Np D | Stream/Segment ID: Ns1 |
|---|---|---|
| Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 |

**1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics?** ***[See WAC 222-16-031(3)(b)(ii)]***

| | | |
|---|---|---|
| ☐ No. Continue | ☐ No. Continue | ☐ No. Continue |
| ☒ Yes. Attach documentation or approved WTMF number: PEL-43-2021 | ☒ Yes. Attach documentation or approved WTMF number: PEL-44A-2021 | ☒ Yes. Attach documentation or approved WTMF number: PEL-44B-2021 |
| ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. |
| ☒ No fish. Continue to 6. | ☒ No fish. Continue to 6. | ☒ No fish. Continue to 6. |
| ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. |

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

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

**5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☐ No. Continue. | ☐ No. Continue. | ☐ No. Continue. |

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

| | | |
|---|---|---|
| ☒ Yes. Type Np water. Go to 9. | ☒ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☐ No. Continue. | ☒ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes. Type Np water. Go to 9 | ☐ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☐ No. Continue. | ☒ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes, Type Ns water. | ☐ Yes, Type Ns water. | ☒ Yes, Type Ns water. |
| ☐ No, non-typed water. | ☐ No, non-typed water. | ☐ 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: Np C | Stream/Segment ID: Np D | Stream/Segment ID: |
|---|---|---|
| UMPPF determined during harvest unit layout | UMPPF determined during harvest unit layout | |

# Appendix A. Water Type Classification Worksheet

## Western Washington

| Stream/Segment ID: Np E, Np F | Stream/Segment ID: Ns2-Ns14 | Stream/Segment ID: Ns16-Ns20 |
|---|---|---|
| Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 | Date(s) Observed: 8/17/2021 |

**1. Did you determine fish use as described in the Forest Practices Board Manual Section 13? Or, does the stream have waiver characteristics?** ***[See WAC 222-16-031(3)(b)(ii)]***

| | | |
|---|---|---|
| ☒ No. Continue | ☒ No. Continue | ☒ No. Continue |
| ☐ Yes. Attach documentation or approved WTMF number: _____ | ☐ Yes. Attach documentation or approved WTMF number: _____ | ☐ Yes. Attach documentation or approved WTMF number: _____ |
| ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. | ☐ Fish found. Type F water. Stop. |
| ☐ No fish. Continue to 6. | ☐ No fish. Continue to 6. | ☐ No fish. Continue to 6. |
| ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. | ☐ Yes. Meets waiver criteria. Continue to 6. |

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

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☒ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

**3. Is there an impoundment (ponded water) upstream of the assessed segment that is greater than 0.5 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☒ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

**4. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient less than or equal to 16%?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☒ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

**5. Are there segments within or upstream of the assessed portion of the stream where the average bankfull width is two feet or greater? AND, is the average stream gradient between 16% and 20%? AND, is the contributing basin to the stream greater than 50 acres?**

| | | |
|---|---|---|
| ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. | ☐ Yes. Type F water. Stop. |
| ☒ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

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

| | | |
|---|---|---|
| ☒ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes. Type Np water. Go to 9 | ☐ Yes. Type Np water. Go to 9. | ☐ Yes. Type Np water. Go to 9. |
| ☐ No. Continue. | ☒ No. Continue. | ☒ No. Continue. |

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

| | | |
|---|---|---|
| ☐ Yes, Type Ns water. | ☒ Yes, Type Ns water. | ☒ Yes, Type Ns water. |
| ☐ No, non-typed water. | ☐ No, non-typed water. | ☐ 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: Np E, Np F | Stream/Segment ID: _____ | Stream/Segment ID: _____ |
|---|---|---|

UMPPFs determined during harvest unit layout

-2940863-

County: Lewis, WA

Watershed: Independence Creek

Decimal Degrees

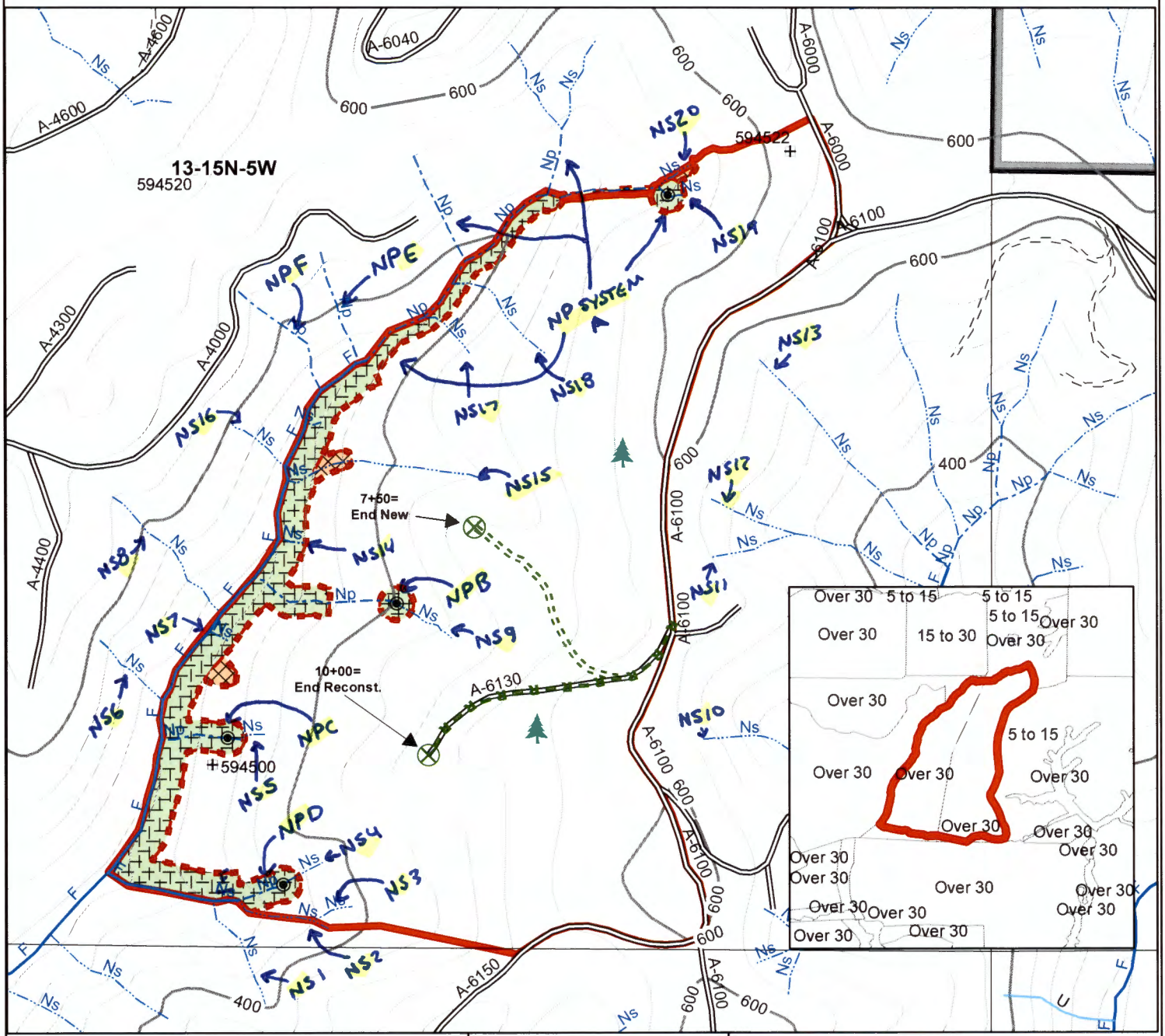
Lat 46.783316 N

Long -123.251524 W

Weyerhaeuser

**Harp Rd A-6130**
**Pe Ell**
**Setting FPA Map**
**13-15N-5W**

**HPU: 455920**
**FPA:**




Culvert
UPPF
Landing
Loggers Choice
Rock Pit
Tail Tree
Spoil Area
Wildlife Tree
Water System
Bridge
DNR Tic
Tract
Yarding Direction

Domestic/Municipal Water Line
Overhead Utility
Underground Utility
Undefined Utility

**Harvest Method**
Cable
Ground / Thinning
Harvestable Forested Wetland
RMZ
Unstable
WTA, LTA, RLA
CMZ
WMZ
Non-Forest
Wetland Type A or B
Other

**Engineered Roads**
New Construction
M — M Maintenance
R — R Reconstruction
L — L Loggers Choice
T — T Temporary
X — X Abandon

**Existing Roads**
Street/Highway
Paved
Gravel
Dirt
Undriveable

**Acres**

| | |
|---|---|
| Net Harvestable | 71 |

**Road Acres**

| | |
|---|---|
| Timbered R/W | |
| Existing R/W | 3.5 |
| New R/W | 1 |

Notify Engineer if survey corner is disturbed

**Comments** WATER TYPE MAP

0 200 400 Feet

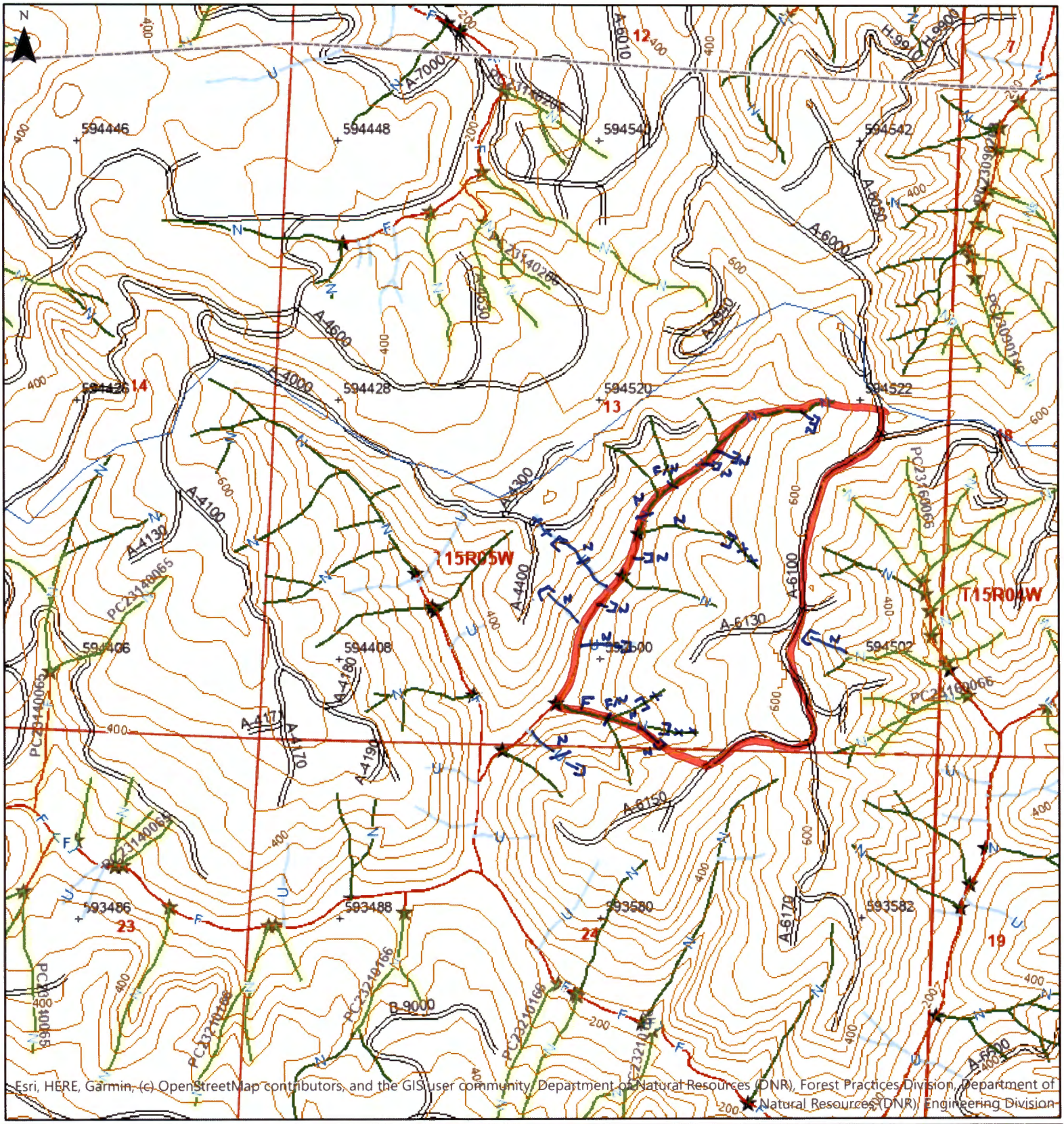
1 inch = 500 feet

AUID: 100729016
Org: 121

Creator: DUNCAND
Printed 9/26/2022

# Forest Practices Water Type Map

-2940863-




| Map Symbols | Additional Information | Legal Description |
|---|---|---|
| New Stream<br>Proposed Water Type<br>Stream Removal<br>Break between water types<br>Start and End Point of Surveyed Reach<br>Natural Fish Barrier<br>Manmade Barrier<br>End of Fish or Last Fish | -HARVEST UNIT<br>- STREAM LOCATION<br>xxx - DOES NOT EXIST<br>F/N - F/N BREAK | S11 T15.0N R05.0W, S12 T15.0N R05.0W, S18 T15.0N R04.0W, S14 T15.0N R05.0W, S24 T15.0N R05.0W, S23 T15.0N R05.0W, S13 T15.0N R05.0W, S19 T15.0N R04.0W, S07 T15.0N R04.0W |

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES

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Approximate Scale : 1:12,000

0 0.06 0.12 0.18 0.24 Miles

Date: 9/26/2022 Time: 11:21 AM

-2940863-

# DFC Summary Page

## DFC Program Version 3.0

**DFC Run Number:** 66342
**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD. A-6130
**Stream Segment:** F1
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

**Stream Size:** SMALL
**Site Class:** 2
**Major Species:** DOUGLAS FIR
**RMZ Length:** 2035
**Eastside Option:** NO

### Core Pre-Harvest Zone Summary

**Acres:** 2.34
**Total Age of Overstory:** 47
**Trees / Acre:** 117.73
**Basal Area Acre:** 120.23
**Percent Conifer:** 94.62

### Inner Zone Pre-Harvest Summary

**Acres (Option 1):** 2.94
**Total Age of Overstory:** 47
**Trees / Acre:** 111.78
**Basal Area Acre:** 147.9
**Percent Conifer:** 98.44

### Core Zone Stand Table

| DBH | Conifer | Hardwood |
|---|---|---|
| 6 | 5 | 0 |
| 8 | 11 | 2 |
| 10 | 36 | 3 |
| 12 | 72 | 5 |
| 14 | 56 | 4 |
| 16 | 45 | 2 |
| 18 | 24 | 1 |
| 20 | 9 | 0 |

### Inner Zone Stand Table

| DBH | Conifer | Hardwood |
|---|---|---|
| 8 | 0 | 1 |
| 10 | 27 | 0 |
| 12 | 45 | 1 |
| 14 | 78 | 4 |
| 16 | 73 | 1 |
| 18 | 63 | 0 |
| 20 | 30 | 0 |
| 22 | 5 | 0 |
| 24 | 1 | 0 |

**Required DFC of the Combined Core and Inner Zones at age 140:** 325
**Projected B.A. of Core Zone at 140 as a % of DFC:** 375.71 (16% over Required B.A.)
**Projected B.A. of Inner Zone at 140 as a % of DFC:** 394.17 (21% over Required B.A.)
**Projected B.A. of Combined Core and Inner Zones at Age 140:** 384.94 (18% over Required B.A.)

-2940863-

# Option 1

## DFC Program Version

**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD. A-6130
**Stream Segment:** F1
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

### Inner Zone post-thinning Statistics

**Trees / Acre:** 57.08
**Basal Area / Acre:** 98.35
**Percent Conifer:** 98.4400024414063
Required Basal Area of Thinned Inner Zone at age 140 must be at least 284.75 Sq. Ft / Acre at age 140.
Projected Basal Area of Thinned Inner Zone at age 140 will be at least 371.11 Sq. Ft / Acre at age 140.

The inner zone for Option 1 is from 50 to 113 feet.

### Inner Zone Stand Table

| DBH | Conifers: Can Be Cut | Required Leave Trees | Hardwood: Can Cut All | Required Leave Trees | Conifer BA Cut | Conifer BA Leave |
|---|---|---|---|---|---|---|
| 8 | 0 | 0 | 1 | 0 | 0 | 0 |
| 10 | 27 | 0 | 0 | 0 | 14.73 | 0 |
| 12 | 45 | 0 | 1 | 0 | 35.34 | 0 |
| 14 | 78 | 0 | 4 | 0 | 83.38 | 0 |
| 16 | 4 | 69 | 1 | 0 | 5.59 | 96.34 |
| 18 | 0 | 63 | 0 | 0 | 0 | 111.33 |
| 20 | 0 | 30 | 0 | 0 | 0 | 65.45 |
| 22 | 0 | 5 | 0 | 0 | 0 | 13.2 |
| 24 | 0 | 1 | 0 | 0 | 0 | 3.14 |
| | | | | Totals | 139.04 | 289.46 |

**Option 1 Outer Zone Width:** 57
**Option 1 Outer Zone Acres:** 2.66

-2940863-

# Option 2

## DFC Program Version

**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD. A-6130
**Stream Segment:** F1
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

**Inner Zone Floor:** 50 to 92 feet, no harvesting allowed.
**ClearCut Inner Zone :** 92 to 114 feet, Need 21 Riparian leave trees in this area. Leave trees must be at least 12 inches at DBH.
**Outer Zone:** 114 to 170 feet, Need 53 Riparian leave trees in this area.

**Option 2 Outer Zone Width:** 56
**Option 2 Outer Zone Acres:** 2.62

-2940863-

# DFC Summary Page

## DFC Program Version 3.0

**DFC Run Number:** 66341
**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD A-6130
**Stream Segment:** ~~F3~~ F2
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

**Stream Size:** SMALL
**Site Class:** 2
**Major Species:** DOUGLAS FIR
**RMZ Length:** 450
**Eastside Option:** NO

### Core Pre-Harvest Zone Summary

**Acres:** 0.52
**Total Age of Overstory:** 47
**Trees / Acre:** 98.74
**Basal Area Acre:** 113.79
**Percent Conifer:** 97.74

### Inner Zone Pre-Harvest Summary

**Acres (Option 1):** 0.65
**Total Age of Overstory:** 47
**Trees / Acre:** 96.8
**Basal Area Acre:** 119.27
**Percent Conifer:** 99.3

### Core Zone Stand Table

| DBH | Conifer | Hardwood |
|---|---|---|
| 10 | 5 | 1 |
| 12 | 13 | 1 |
| 14 | 9 | 0 |
| 16 | 13 | 0 |
| 18 | 7 | 0 |
| 20 | 2 | 0 |

### Inner Zone Stand Table

| DBH | Conifer | Hardwood |
|---|---|---|
| 6 | 1 | 1 |
| 8 | 1 | 1 |
| 10 | 4 | 0 |
| 12 | 5 | 0 |
| 14 | 14 | 0 |
| 16 | 22 | 0 |
| 18 | 14 | 0 |

**Required DFC of the Combined Core and Inner Zones at age 140:** 325
**Projected B.A. of Core Zone at 140 as a % of DFC:** 378.03 (16% over Required B.A.)
**Projected B.A. of Inner Zone at 140 as a % of DFC:** 384.42 (18% over Required B.A.)
**Projected B.A. of Combined Core and Inner Zones at Age 140:** 381.23 (17% over Required B.A.)

# Option 1

## DFC Program Version

-2940863-

**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD A-6130
**Stream Segment:** ~~F3~~ F2
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

### Inner Zone post-thinning Statistics

**Trees / Acre:** 58.39
**Basal Area / Acre:** 88.5
**Percent Conifer:** 99.3000030517578
Required Basal Area of Thinned Inner Zone at age 140 must be at least 282.91 Sq. Ft / Acre at age 140.
Projected Basal Area of Thinned Inner Zone at age 140 will be at least 365.05 Sq. Ft / Acre at age 140.

The inner zone for Option 1 is from 50 to 113 feet.

### Inner Zone Stand Table

| DBH | Conifers: Can Be Cut | Required Leave Trees | Hardwood: Can Cut All | Required Leave Trees | Conifer BA Cut | Conifer BA Leave |
|---|---|---|---|---|---|---|
| 6 | 1 | 0 | 1 | 0 | 0.2 | 0 |
| 8 | 1 | 0 | 1 | 0 | 0.35 | 0 |
| 10 | 4 | 0 | 0 | 0 | 2.18 | 0 |
| 12 | 5 | 0 | 0 | 0 | 3.93 | 0 |
| 14 | 12 | 2 | 0 | 0 | 12.83 | 2.14 |
| 16 | 0 | 22 | 0 | 0 | 0 | 30.72 |
| 18 | 0 | 14 | 0 | 0 | 0 | 24.74 |
| | | | | Totals | 19.48 | 57.6 |

**Option 1 Outer Zone Width:** 57
**Option 1 Outer Zone Acres:** 0.59

# Option 2

## DFC Program Version

-2940863-

**Landowner:** WEYERHAEUSER
**Address:** PE ELL
**Phone:** 3605206549

**Project Name:** HARP RD A-6130
**Stream Segment:** ~~F3~~ F2
**Legal Desc:** Section: 13 Township: 15 Range: 5 West

**Inner Zone Floor:** 50 to 93 feet, no harvesting allowed.
**ClearCut Inner Zone** : 93 to 114 feet, Need 5 Riparian leave trees in this area. Leave trees must be at least 12 inches at DBH.
**Outer Zone:** 114 to 170 feet, Need 12 Riparian leave trees in this area.

**Option 2 Outer Zone Width:** 56
**Option 2 Outer Zone Acres:** 0.58

-2940863-

WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC- | 23- | 22- | 0116 |
| Received Date | | | |

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☒ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☐ Other; Describe: _____

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-41A-2021 | unnamed | Independence Creek | Sec 13 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | N | F | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☒ Yes ☐ No List Species (if known): sculpin

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

-2940863-

Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completed. Drought would not impact gradient inflection at proposed F/N break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 10 Average Bankfull Width 4.6 ft Average Gradient 9%

Average Wetted Width 2.0 ft Number of Protocol Pools 4

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)
- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☐ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☒ Yes ☐ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: two culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

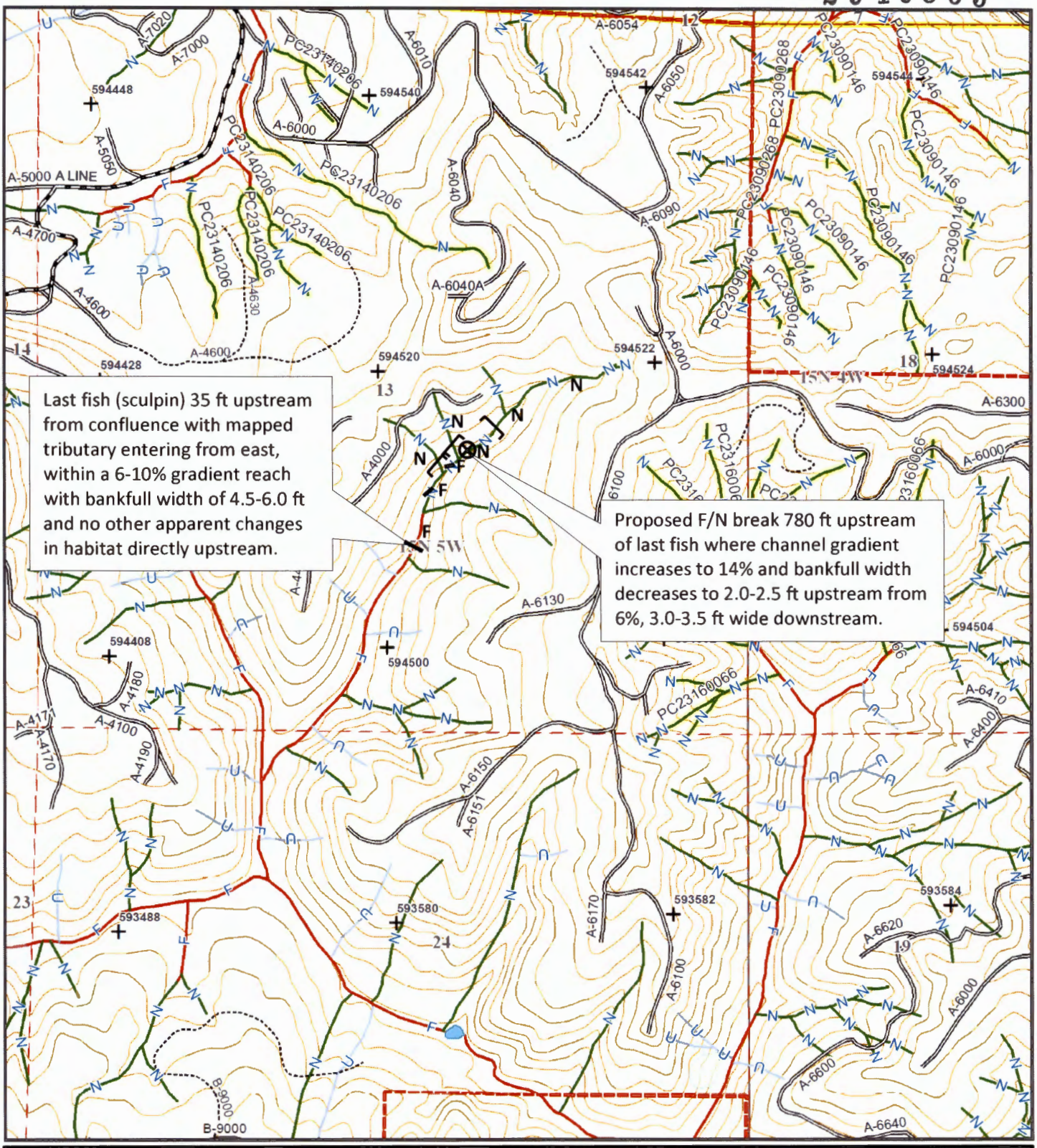
Describe how this affected current stream channel conditions and fish distribution in the stream:

**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

Forest Practice Water Type Map
T15N R05W sec 13
**Site Code: PEL-41A-2021**

PC-23-22-0116
-2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet
0 500 1,000 Feet
1/21/2021

**Additional Information**

PC-23-22-0116

# Weyerhaeuser Stream Typing Field Form – Washington 2021

-2940863-

Site Code: PEL-41A-2021 Location: Section: 13 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: normal, clear

Conductivity: 39 µS/cm Water Temperature: 10.2 °C Electrofisher Setting: G5 - 400

**BRIEF SITE SUMMARY:** Last fish (sculpin) 35 ft upstream from confluence with mapped tributary entering from east, within a 6-10% gradient, 4.5-6.0 ft bankfull width reach and no apparent changes in habitat directly upstream.

Proposed F/N break 780 ft upstream of last fish where channel gradient increases to 14% and bankfull width decreases to 2.0-2.5 ft upstream from 6%, 3.0-3.5 ft wide downstream. Minimal surface flows directly upstream of proposed F/N break.

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID (1.2) 604082 – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID (2.2) 604082 – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts were listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known inhabit waters upstream of the culverts and the proposed F/N break was established at prominent break in gradient and stream size upstream of the last fish point.

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: SSP Fish Size-Classes/Abundance near Last Fish: 40-55 mm / mod abundance

Change to water type? **YES** / **NO** From: N To: F Reason: fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange plaque and orange ribbon installed 35 ft upstream of mapped tributary entering from east (46.78290 -123.25575).

Last Fish Point: Category: AC Type: none Feature: none

Last Fish Point Description: Within a 6-10% gradient reach with bankfull width of 4.5-6.0 ft.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 10% | Upstream: | 6% |
| Width (bfw / ww): | Downstream: | 5-6 ft / 3-3.5 ft | Upstream: | 4.5-6 ft / 3 ft |
| Confinement: | Downstream: | high | Upstream: | high |

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 1,080 ft Pools Sampled (quality/small): 4 / 25 Species Present: DISP, TAGR

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

Description / Location:

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES** / **NO** PC-23-22-0116

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location: Yellow plaque with orange and orange / white ribbon installed 780 ft upstream of last fish (46.78499 -123.25433)

Habitat Break Information: Category: AC Type: HC Feature: gradient, size

Habitat Break Description: Channel gradient increases to 14% and bankfull width decreases to 2.0-2.5 ft upstream from 6%, 3.0-3.5 ft downstream. Minimal surface flows directly upstream.

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 6% | Upstream: | 14% |
| Width (bfw / ww): | Downstream: | 3.0-3.5 ft / 2.5-3.0 ft | Upstream: | 2.0-2.5 ft / 1.0-1.5 ft |
| Confinement: | Downstream: | high | Upstream: | high |

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 1,115 ft

Total Number of Fish Encountered (by species): SSP – 5 Total Electrofisher Shock Seconds: 1,237

Photos? **YES** / **NO** Description:

Do drought conditions appear to impact fish distribution at this site? **YES** / **NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [•] Last Fish [ ] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 5.3 | 6.1 | 5.1 | 5 | 4.9 | 3.6 | 4.4 | 4.6 | 3.8 | 3.2 |
| **Wet W (ft)** | 2.8 | 1.4 | 2.2 | 0.6 | 1.8 | 2.8 | 1.7 | 2.8 | 1.9 | 2.2 |
| **Max D (ft)** | 0.5 | 0.2 | 0.2 | 0.4 | 0.2 | 0.2 | 0.4 | 0.6 | 0.3 | 0.4 |

Station interval distance: 50 ft Notes/Comments:

If at least 10 evenly distributed channel measurements were not taken, describe why here :

**ADDITIONAL NOTES, DRAWINGS, ETC:**

Station 0 = Last fish (sculpin) 35 ft upstream of confluence with mapped tributary from east

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| -35-0 | 10 | 5-6 | 3-3.5 | high | fines sm gravel | |
| 0-55 | 6 | 4.5-6 | 3 | | | |
| 55-100 | 9 | 4.5-5 | | | | intermittent bedrock |
| 100-150 | 12 | 3.5-4 | | | | |
| 150-270 | 10-12 | 3-5 | 3-4 | | | |
| | at 270 ft, mapped tributary enters from east (46.78356 -123.25564) addressed on separate survey report (PEL-41B-2021) | | | | | |
| 270-320 | 10 | 3-5 | 2.5-3 | high | fines sm gravel | |
| 320-380 | 12 | | 3-4 | | | |
| 380-470 | 7 | 3 | 1.5-2 | | | |
| 470-610 | 6-8 | 3-3.5 | 2-2.5 | | fines | |
| | at 610 ft, mapped tributary enters from northwest; >20%, <1 ft bfw; stream does not meet Type-F physical characteristics (46.78463 -123.25495); surveyed 100 ft | | | | | |
| 610-755 | 6 | 2-2.5 | 2.5-3 | high | fines | |
| | at 755 ft, mapped tributary enters from northwest; >20%, <1 ft bfw; stream does not meet Type-F physical characteristics (46.78479 -123.25427); surveyed 100 ft | | | | | |
| 755-815 | 14 | 2-2.5 | 1-1.5 | high | fines sm gravel | at 780 ft, Proposed F/N break (46.78499 -123.25433) |
| 815-875 | 12 | | | | fines | |
| 875-945 | 10 | 2 | | | fines sm gravel | |
| 945-1,080 | 14 | 1.5-2 | 1 | | mixed gravel | |

-2940863-

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC-2 | 3-2 | 2-0 | 116 |
| Received Date | | | |

WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☐ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☒ Other; Describe: verifying water type

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-41B-2021 | unnamed | Independence Creek | Sec 13 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | N | N | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☐ Yes ☒ No List Species (if known): sculpin in mainstem, none in subject stream

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

PC-23-22-0116

-2940863-

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completed. Drought would not impact barrier at F/N break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 3 Average Bankfull Width 3.5 ft Average Gradient 42%

Average Wetted Width 1.6 ft Number of Protocol Pools 0

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

Protocol survey concluded at 100 ft due to high gradients.

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)

- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☐ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: wo culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

Describe how this affected current stream channel conditions and fish distribution in the stream:

**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

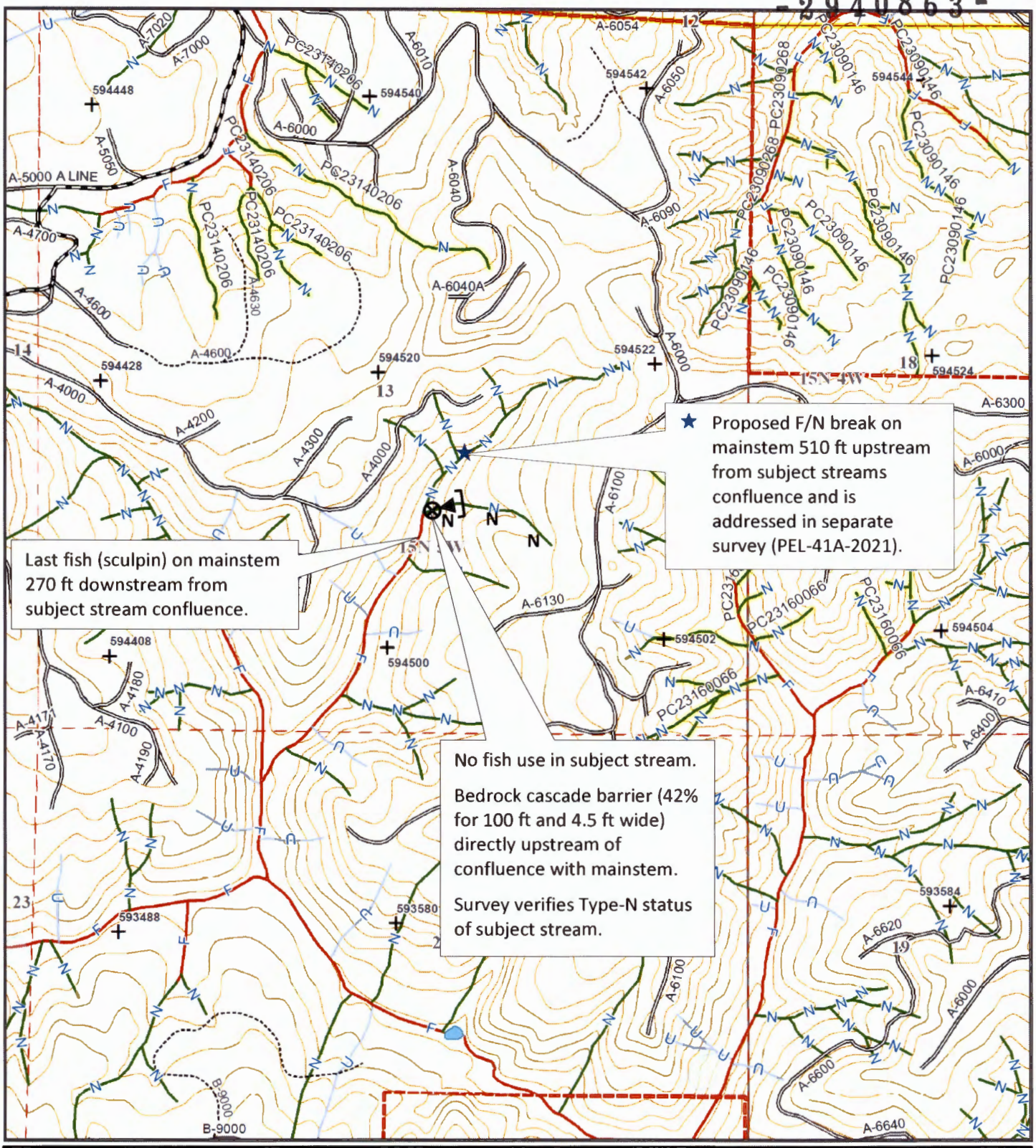
Forest Practice Water Type Map

T15N R05W sec 13

**Site Code: PEL-41B-2021**

PC-23-22-0116

-2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet

0 500 1,000 Feet

1/21/2021

**Additional Information**

# Weyerhaeuser Stream Typing Field Form – Washington 2021

Site Code: PEL-41B-2021 Location: Section: 13 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: normal, clear

Conductivity: 39 µS/cm Water Temperature: 10.2 °C Electrofisher Setting: G5 - 400

**BRIEF SITE SUMMARY:** Last fish (sculpin) 270 ft downstream from subject stream confluence with mainstem. Mainstem proposed F/N break 510 ft upstream from subject stream confluence with mainstem.

No fish use in subject stream.

Bedrock cascade barrier (42% for 100 ft and 4.5 ft wide) directly upstream of confluence with mainstem.

Survey verifies Type-N status of subject stream.

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID 604082 (1.2) – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID 604082 (2.2) – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts were listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known inhabit waters upstream of the culverts and the proposed F/N break in subject stream was established at a barrier 270 ft upstream of the last fish point.

*All survey information, with the exception of the Last Fish Point location / description, refers to the subject stream and not the mainstem (mainstem information is addressed on separate survey report PEL-41A-2021).

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: SSP Fish Size-Classes/Abundance near Last Fish: 40-55 mm / mod abundance mainstem

Change to water type? **YES** / **NO** From: N To: N Reason: no fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange plaque and orange ribbon installed 35 ft upstream of mapped tributary entering from east (46.78290 -123.25575).

Last Fish Point: Category: AC Type: none Feature: none

Last Fish Point Description: Fish was observed within a 6-10% gradient reach with bankfull width of 4.5-6.0 ft and no other apparent changes in habitat directly upstream.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

Gradient (%): Downstream: 10% Upstream: 6%

Width (bfw / ww): Downstream: 5-6 ft / 3-3.5 ft Upstream: 4.5-6 ft / 3 ft

Confinement: Downstream: high Upstream: high

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 100 ft Pools Sampled (quality/small): 0 / 0 Species Present: none observed

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

PC-23-22-0116

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES** / **NO**

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location: Orange and orange / white flagging hung at confluence with mainstem (46.78356 -123.25564).

Habitat Break Information: Category: CF Type: barrier Feature: bedrock cascade

Habitat Break Description: Bedrock cascade barrier (42% for 100 ft and 4.5 ft wide) directly out of confluence with mainstem.

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

Mainstem

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 10-12% | Upstream: | 42% |
| Width (bfw / ww): | Downstream: | 3-5 ft / 3-4 ft | Upstream: | 3.5-4.5 ft / 2-3 ft |
| Confinement: | Downstream: | high | Upstream: | high |

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 150 ft

Total Number of Fish Encountered (by species): none observed Total Electrofisher Shock Seconds: 38

Photos? **YES** / **NO** Description:

Do drought conditions appear to impact fish distribution at this site? **YES** / **NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [ ] Last Fish [•] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 1.9 | 4.1 | 4.6 | | | | | | | |
| **Wet W (ft)** | 0 | 2.4 | 1.7 | | | | | | | |
| **Max D (ft)** | 0 | 0.1 | 0.1 | | | | | | | |

Station interval distance: 50 ft Notes/Comments:

If at least 10 evenly distributed channel measurements were not taken, describe why here : Protocol survey concluded at 100 ft due to high gradient.

**ADDITIONAL NOTES, DRAWINGS, ETC:**

Station 0 = Last fish at confluence in mainstem

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| 0-100 | 42 | 3.5-4.5 | 2-3 | high | bedrock sm gravel | bedrock cascade; remains steep upstream |

-2940863-

WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC- | 23- | 22- | 0116 |
| Received Date | | | |

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☐ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☒ Other; Describe: verifying water type

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-42-2021 | unnamed | Independence Creek | Sec 13 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | N | N | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☐ Yes ☒ No List Species (if known): sculpin in mainstem, none in subject stream

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completed. Drought would not impact barrier at proposed F/N break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 7 Average Bankfull Width 2.1 ft Average Gradient 35%

Average Wetted Width 0.7 ft Number of Protocol Pools 0

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

Protocol survey concluded at 300 ft as gradients exceeded 20% upstream.

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)
- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☒ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: two culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

Describe how this affected current stream channel conditions and fish distribution in the stream:

**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

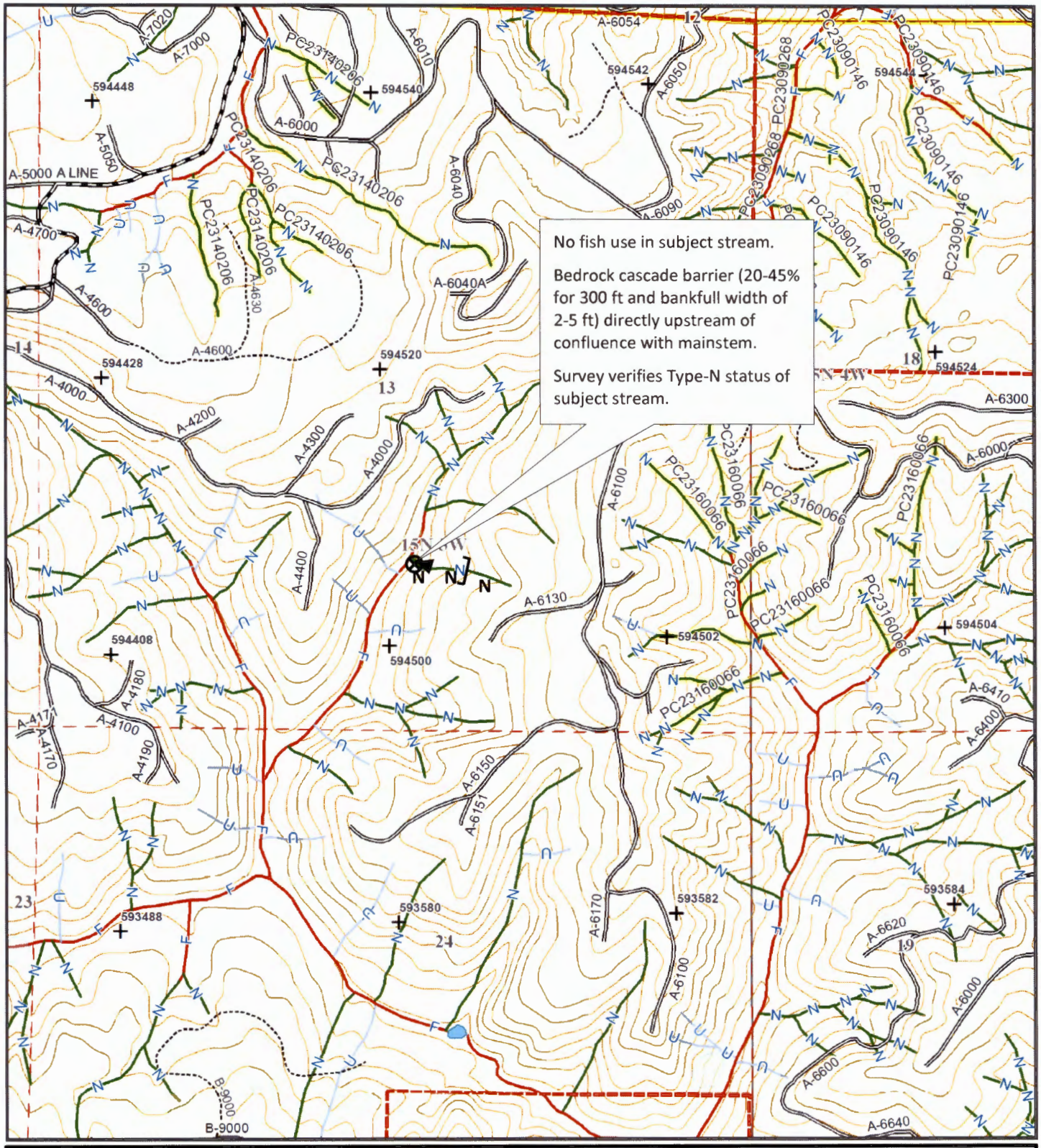
- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

# Forest Practice Water Type Map

T15N R05W sec 13

**Site Code: PEL-42-2021**

PC-23-22-0116
-2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet

0 500 1,000 Feet

1/21/2021

**Additional Information**

2C-23-22-0116
-2940863-

# Weyerhaeuser Stream Typing Field Form – Washington 2021

Site Code: PEL-42-2021 Location: Section: 13 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: normal, clear

Conductivity: 39 µS/cm Water Temperature: 10.2 °C Electrofisher Setting: G5 - 400

**BRIEF SITE SUMMARY:** No fish use in subject stream.

Bedrock cascade barrier (20-45% for 300 ft and bankfull width of 2-5 ft) directly upstream of confluence with mainstem.

Survey verifies Type-N status of subject stream.

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID (1.2) 604082 – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID (2.2) 604082 – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts area listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known to inhabit waters upstream of the culverts and the proposed F/N break was established at prominent barrier

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: SSP Fish Size-Classes/Abundance near Last Fish: 40-55 mm / mod abundance

Change to water type? **YES** / **NO** From: N To: N Reason: no fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange ribbon hung at confluence with mainstem (46.78281 -123.25580)

Last Fish Point: Category: CF Type: barrier Feature: bedrock cascade

Last Fish Point Description: Bedrock cascade barrier (20-45% for 300 ft and bankfull width of 2-5 ft) directly out of confluence with mainstem.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

| | | mainstem | | ↑ barrier |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 6% | Upstream: | 21% |
| Width (bfw / ww): | Downstream: | 4-6 ft / 3-5 ft | Upstream: | 2-5 ft / 0.5-3 ft |
| Confinement: | Downstream: | high | Upstream: | high |

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 300 ft Pools Sampled (quality/small): 0 / 0 Species Present: none observed

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

Description / Location:

Further Description of Habitat Upstream of Last Fish: See additional notes in table provided below.

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES / NO** PC-23-22-0116

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location:

Habitat Break Information: Category:_____ Type: _____ Feature: _____

Habitat Break Description:

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

Gradient (%): Downstream:_____ Upstream: _____

Width (bfw / ww): Downstream:_____ Upstream: _____

Confinement: Downstream:_____ Upstream: _____

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 330 ft

Total Number of Fish Encountered (by species): mainstem SSP – 2 Total Electrofisher Shock Seconds: 35

Photos? **YES / NO** Description: _____

Do drought conditions appear to impact fish distribution at this site? **YES / NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [•] Last Fish [•] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 1.6 | 5.4 | 1.8 | 1.2 | 1.6 | 2.2 | 1.1 | | | |
| **Wet W (ft)** | 0.0 | 0.8 | 1.1 | 0.8 | 0.4 | 1.0 | 0.9 | | | |
| **Max D (ft)** | 0.0 | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.2 | | | |

Station interval distance: 50 ft Notes/Comments:

If at least 10 evenly distributed channel measurements were not taken, describe why here : Protocol survey concluded at 300 ft as gradients exceeding 20% were sustained.

**ADDITIONAL NOTES, DRAWINGS, ETC:**
Station 0 = Last fish at confluence in mainstem

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| 0-140 | 45 | 3-5 | 0.5-3 | high | bedrock sm gravel | ▲ cascade barrier |
| 140-300 | 21 | 2 | 1 | | sm gravel bedrock | remains steep |

-2940863-

WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC- | 23- | 22- | 0116 |
| Received Date | | | |

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☒ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☐ Other; Describe: _____

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-43-2021 | unnamed | Independence Creek | Sec 13 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | U | N | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☐ Yes ☒ No List Species (if known): sculpin in mainstem, none in subject stream

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

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Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completd. Drought would not impact barrier at proposed F/N break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 6 Average Bankfull Width 1.6 ft Average Gradient 28%

Average Wetted Width 0.2 ft Number of Protocol Pools 0

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

Protocol survey concluded at 295 ft as gradient exceed 20% upstream.

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)
- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☒ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: two culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

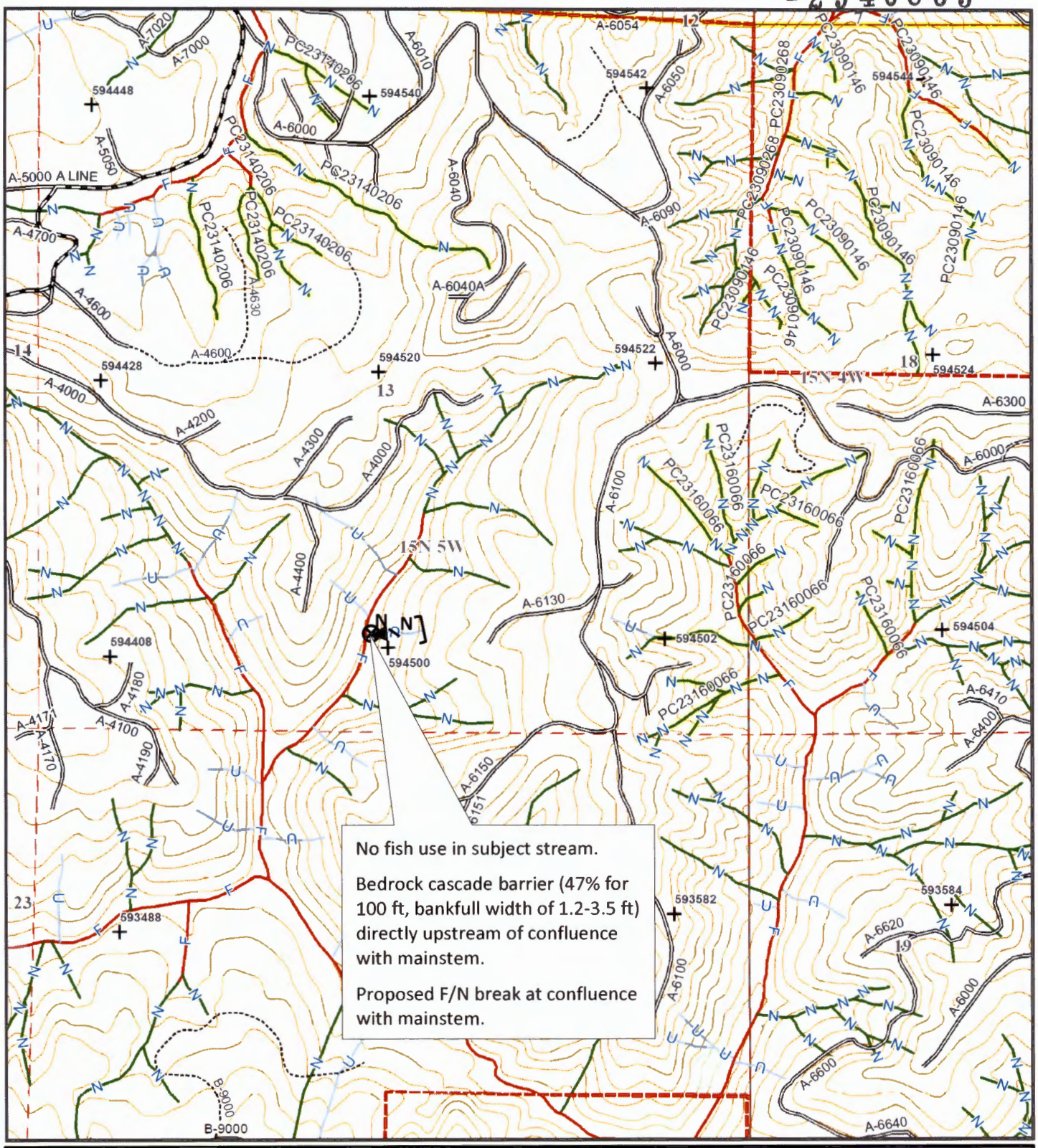
Describe how this affected current stream channel conditions and fish distribution in the stream:

**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

Forest Practice Water Type Map
T15N R05W sec 13
**Site Code: PEL-43-2021**

PC-23-22-0116
-2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet
0 500 1,000 Feet
1/21/2021

**Additional Information**

-2940863-

# Weyerhaeuser Stream Typing Field Form – Washington 2021

PC-23-22-0116

Site Code: PEL-43-2021 Location: Section: 13 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: normal, clear

Conductivity: 39 µS/cm Water Temperature: 10.2 °C Electrofisher Setting: G5 - 400

**BRIEF SITE SUMMARY:** No fish use in subject stream.

Bedrock cascade barrier (47% for 100 ft) directly upstream of confluence with mainstem.

Proposed F/N break at confluence with mainstem.

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID (1.2) 604082 – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID (2.2) 604082 – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts area listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known to inhabit waters upstream of the culverts and the proposed F/N break was established at prominent barrier

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: SSP Fish Size-Classes/Abundance near Last Fish: 40-55 mm /mod abundance

Change to water type? **YES** / **NO** From: U To: N Reason: no fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange ribbon installed at confluence with mainstem (46.78127 -123.25711)

Last Fish Point: Category: CF Type: barrier Feature: bedrock cascade

Last Fish Point Description: Bedrock cascade barrier (47% for 100 ft and bankfull width of 1.2-3.5 ft) out of mainstem.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

| | | mainstem | | ↑ barrier |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 7% | Upstream: | 13% |
| Width (bfw / ww): | Downstream: | 4.5-5 ft / 2-3 ft | Upstream: | 1.2-3.5 ft / 0-0.2 ft |
| Confinement: | Downstream: | mod high | Upstream: | high |

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 295 ft Pools Sampled (quality/small): 0 / 0 Species Present: none observed

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

Description / Location:

 -2940863- Site Code: PEL-43-2021

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES / NO** PC-23-22-0116

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location:

Habitat Break Information: Category:_____ Type: _____ Feature: _____

Habitat Break Description:

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

Gradient (%): Downstream:_____ Upstream: _____

Width (bfw / ww): Downstream:_____ Upstream: _____

Confinement: Downstream:_____ Upstream: _____

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 345 ft

Total Number of Fish Encountered (by species): SSP – 2 Total Electrofisher Shock Seconds: 22

Photos? **YES / NO** Description: _____

Do drought conditions appear to impact fish distribution at this site? **YES / NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [●] Last Fish [●] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 1.5 | 3.4 | 1.1 | 1.4 | 1.2 | 0.4 | | | | |
| **Wet W (ft)** | 0.2 | 0.0 | 0.0 | 0.4 | 0.3 | 0.3 | | | | |
| **Max D (ft)** | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | | | | |

Station interval distance: 50 ft Notes/Comments:

If at least 10 evenly distributed channel measurements were not taken, describe why here : Protocol survey concluded at 295 ft as gradients exceed 20% upstream.

**ADDITIONAL NOTES, DRAWINGS, ETC:**

Station 0 = Last fish at confluence in mainstem

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| 0-100 | 47 | 1.2-3.5 | 0-0.2 | high | bedrock sm gravel | cascade barrier |
| 100-170 | 13 | 1-1.5 | 0-0.5 | | fines sm gravel | lack of depth to electrofish |
| 170-295 | 24 | <1 | 0.2 | | fines sm gravel | channel is subsurface at times |
| 295+ | limited channel definition and gradient exceeds 20% | | | | | |

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WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC- | 23- | 22- | 0116 |
| Received Date | | | |

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☒ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☐ Other; Describe: _____

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-44A-2021 | unnamed | Independence Creek | Sec 13 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | N | F | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☒ Yes ☐ No List Species (if known): cutthroat / sculpin

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

-2940863-

Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completed. Drought woudl not impact barriers at proposed FN break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 10 Average Bankfull Width 3.3 ft Average Gradient 22%

Average Wetted Width 1.7 ft Number of Protocol Pools 0

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)
- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☐ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: two culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

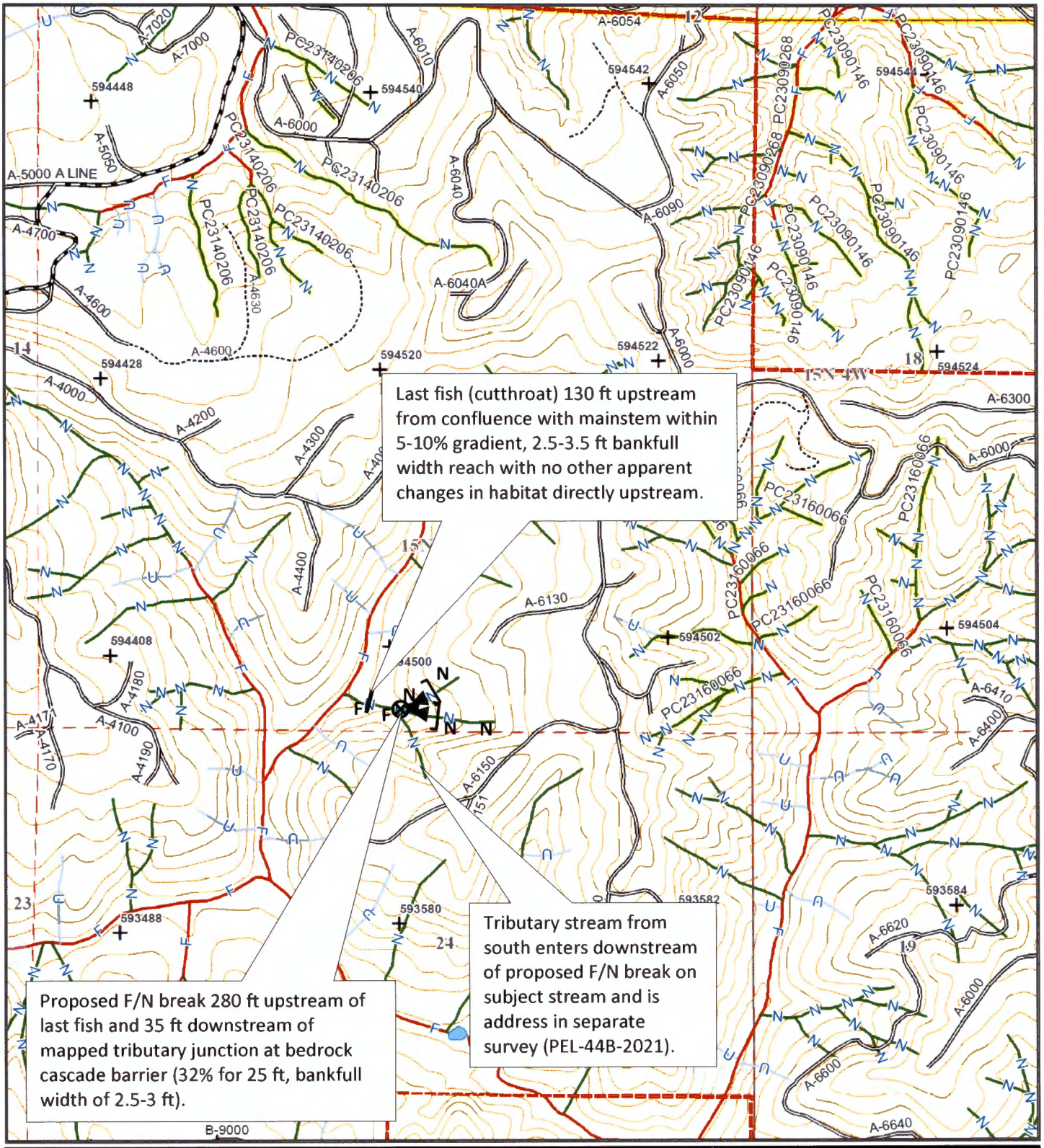
Describe how this affected current stream channel conditions and fish distribution in the stream:

**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

Forest Practice Water Type Map
T15N R05W sec 13
**Site Code: PEL-44A-2021**

PC-23-22-0116
-2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet
0 500 1,000 Feet
1/21/2021

**Additional Information**

PC-23-22-0116

# Weyerhaeuser Stream Typing Field Form – Washington 2021

-2940863-

Site Code: PEL-44A-2021 Location: Section: 13 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: normal, clear

Conductivity: 39 µS/cm Water Temperature: 10.2 °C Electrofisher Setting: G5 - 400

**BRIEF SITE SUMMARY:** Last fish (cutthroat) 130 ft upstream from confluence with mainstem within 5-10% gradient, 2.5-3.5 ft bankfull width reach with no other apparent changes in habitat directly upstream.

Proposed F/N break 280 ft upstream of last fish and 35 ft downstream of mapped tributary junction at bedrock cascade barrier (32% for 25 ft, bankfull width of 2.5-3 ft).

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID (1.2) 604082 – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID (2.2) 604082 – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts area listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known to inhabit waters upstream of the culverts and the proposed F/N break was established at prominent barrier

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: CT Fish Size-Classes/Abundance near Last Fish: 70 mm / low abundance

Change to water type? **YES** / **NO** From: N To: F Reason: fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange plaque and orange ribbon installed 130 ft upstream of confluence with mainstem (46.77998 -123.25729)

Last Fish Point: Category: AC Type: none Feature: none

Last Fish Point Description: Within 5-10% gradient 2.5-3.5 ft with no other apparent changes in habitat directly upstream.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

Gradient (%): Downstream: 5% Upstream: 10%

Width (bfw / ww): Downstream: 2.5-3 ft / 1-1.5 ft Upstream: 3-3.5 ft / 2-3 ft

Confinement: Downstream: mod high Upstream: high

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 400 ft Pools Sampled (quality/small): 0 / 12 Species Present: none observed

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

Description / Location: bed cascade (32% for 25 ft and 2-2.5 ft bfw) 280 ft ↑ LF (46.77988 -123.25639); bed cascade (48% for 55 ft and 4 ft bfw) 305 ft ↑ LF in east tributary fork (46.77985 -123.25600); bed cascade (44% for 45 ft and 3.5 ft bfw) 305 ft ↑ LF in northeast tributary fork (46.77985 -123.25600)

Further Description of Habitat Upstream of Last Fish: See additional notes in table provided below.

PC-23-22-0116

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES** / **NO**

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location: Yellow plaque and orange and orange / white ribbon installed 280 ft upstream of last fish and 35 ft downstream of mapped tributary junction (46.77988 -123.25639)

Habitat Break Information: Category: AC Type: barrier Feature: bedrock cascade

Habitat Break Description: Bedrock cascade barrier (32% for 25 ft and bankfull width of 2.5-3 ft).

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 18% | Upstream: | 32% |
| Width (bfw / ww): | Downstream: | 2.5-3 ft / 1.5 ft | Upstream: | 2-2.5 ft / 1-1.5 ft |
| Confinement: | Downstream: | high | Upstream: | high |

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 530 ft

Total Number of Fish Encountered (by species): CT – 1, SSP - 3 Total Electrofisher Shock Seconds: 619

Photos? **YES** / **NO** Description: see caption below

Do drought conditions appear to impact fish distribution at this site? **YES** / **NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [ • ] Last Fish [ ] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 3.3 | 3.5 | 3.6 | 3.1 | 4.4 | 2.2 | 2.7 | 3.1 | 3.9 | 2.8 |
| **Wet W (ft)** | 3.0 | 2.2 | 2.6 | 1.3 | 1.1 | 0.6 | 0.4 | 0.9 | 2.8 | 2.4 |
| **Max D (ft)** | 0.8 | 1.0 | 0.7 | 0.1 | 0.1 | 0.1 | 0.1 | 0.3 | 0.1 | 0.1 |

Station interval distance: 50 ft Notes/Comments: Station 8 is in east tributary and station 9 is in northeast tributary of mapped junction at 305 ft.

If at least 10 evenly distributed channel measurements were not taken, describe why here:

**ADDITIONAL NOTES, DRAWINGS, ETC:**

Station 0 = Last fish 130 ft upstream of confluence with mainstem

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| -50-0 | 5 | 2.5-3 | 1-1.5 | mod high | fines sm gravel | |
| 0-50 | 10 | 3-3.5 | 2-3 | high | | |
| 50-215 | 12 | 2.5-3.5 | 1.5-2 | mod high | sm gravel fines | at 215 ft, mapped tributary enters from south (46.77977 -123.25644) addressed on separate survey report PEL-44B-2021 |
| 215-280 | 18 | 2.5-3 | 1.5 | high | fines lg gravel | |
| 280-305 | 32 | 2-2.5 | 1-1.5 | | bedrock sm gravel | ▲ bedrock cascade barrir @ 280 ft - proposed F/N break; @ 305 ft mapped tributary junction (46.77985 - 123.25600) |
| **Mapped tributary fork from east** | | | | | | |
| 305-355 | 48 | 3-4 | 3-4 | high | bedrock | ▲ cascade barrier; remains steep upstream, survey ended |
| **Mapped tributary fork from northeast** | | | | | | |
| 305-350 | 44 | 2.5-3.5 | 2.5-3.5 | high | bedrock | ▲ cascade barrier; remains steep upstream, survey ended |

PC-23-22-0116

**PEL-44A-2021: Mapped tributary junction at 305 ft upstream from last fish where both tributary forks are steep bedrock cascade barriers.**

-2940863-

| Region Reference Number- DNR Use Only | | | |
|---|---|---|---|
| Region | WRIA | Year | Number |
| PC- | 23- | 22- | 0116 |
| Received Date | | | |

WASHINGTON STATE DEPT OF
**NATURAL RESOURCES**

# WATER TYPE MODIFICATION FORM

(For changes to the Water Type Map)

| Proponent Name and Organization | Proponent/Organization Address | Telephone Number |
|---|---|---|
| Jason Walter<br>Weyerhaeuser Co. | 505 North Pearl St.<br>Centralia, WA 98531 | (360) 330-1722 |
| | | **Email Address**<br>jason.walter@weyerhaeuser.com |
| **Surveyor Name(s) and Organization** | **Surveyor/Organization Address** | **Telephone Number** |
| B. Gordon, Terrapin Environmental<br>☐ **Same as Proponent** | 988 Twisp River Rd.<br>Twisp, WA 98856 | (509) 429-3809 |
| | | **Email Address**<br>terrapin@methow.com |
| **Landowner Name** | **Landowner Address** | **Telephone Number** |
| ☒ **Same as Proponent** | | **Email Address** |

**Landowner Notified:** ☒ **Yes** ☐ **No**

**Check Applicable Boxes:**

☐ Adding Typed Wates ☐ Changing Water Type

☐ Removing Typed Waters ☐ Changing Location of Typed Waters

☒ Other; Describe: Verifying Water Type

| (1) Water Segment ID | (2) Name of Water | (3) Tributary To | (4) Legal Description (Section, Township, Range E/W) |
|---|---|---|---|
| PEL-44B-2021 | unnamed | Independence Creek | Sec 13,24 T15N R05W |
| **(5) County** | **(6) Water Type Shown on Map** | **(7) Proposed Water Type** | **(8) Date(s) of Field Assessment** |
| Lewis | N | N | 05/18/2021 |

| (9a) Forest Practices Application | (9b) Enforcement Document |
|---|---|
| ☐ Yes ☐ No **Number:** _____ | ☐ Yes ☒ No **Number:** _____ |

**(10) Change is based on the following (check all that apply):**

☐ Water type does not meet WAC 222-16-031 definition. Describe: _____

Survey Method:

☒ Electrofishing Protocol Survey (attach survey information)

☐ ID Team (attach Informal Conference Note)

☐ Visual Observation

☐ Random Measurements

☐ Incremental Measurements

☒ Physical Characteristics

Fish Found ☐ Yes ☒ No List Species (if known): cutthroat / sculpin mainstem, none in subject stream

☐ Channel is a Public Water Diversion Distance from Diversion: _____

Water Right Reference Number: _____

☐ Channel is a Fish Hatchery Diversion Hatchery Name: _____

Distance from Hatchery: _____

**(11) Water Levels in the Survey Area were:** ☐ Above Normal ☒ Normal ☐ Below Normal

-2940863-

Was there a drought warning issued by DNR? ☒ Yes ☐ No

If yes, describe how stream flows and fish use determinations were unaffected by drought conditions (attach pictures and other relevant information).

Drought declared after survey completed. Drought would not impact barrier at proposed F/N break.

**(12) Channel Characteristics (Use Stream Tally sheet for multiple stream segments).** Per WAC 222-16-031(6)(f), proponents of water typing changes are expected to provide at least 10 evenly spaced measurement points along the stream channel over a representative section of at least 500 feet.

Number of Bankfull Width Measurements* 5 Average Bankfull Width 1.8 ft Average Gradient 34%

Average Wetted Width 0 ft Number of Protocol Pools 0

Ponds and Impoundments > 0.5 acre ☐ Yes ☒ No

*If at least 10 evenly spaced BFW measurements were not provided, describe why here:

Survey ended due to gradients exceeding 20% sustained.

**(13) Water Type Break was determined by (check all that apply; use Stream Tally sheet for multiple stream segments):**

☒ Electrofishing Protocol Survey (attach survey information)

- ☒ Last Fish detected: ***show on map***
- ☒ F/N Type Break: ***show on map***

☐ End of Harvest or Property Boundary

☐ Uppermost Point of Perennial Flow (describe in Block 16)

☐ Last Fish Observed

☒ Upper Extent of Fish Habitat

☒ Physical Characteristics

☐ Other:

Provide a description of water type break, and how it was marked in the field:

See attached field survey form.

Do Type F physical characteristics occur above surveyed segment? ☐ Yes ☒ No

**(14) Are there any fish passage barriers downstream of the surveyed stream segment(s)?**

☐ No. Continue to Block 15. ☐ Unable to Access ☒ Yes

☐ Natural Barrier

Type: ☐ Falls ☐ Cascades ☐ Bedrock Chutes ☐ Other: _____

Length: _____ Height: _____ Width: _____ Gradient: _____

☐ Temporary Barrier Describe: _____

☒ Manmade Barrier Describe: two culverts at one site described on attached field survey form, barrier status unknown

Fish Observed Above the Barrier? ☒ Yes ☐ No

Fish Passage Barriers were Identified by: ☒ Maps; specify: WDFW Site ID 604082 ☐ Field Observations

Describe Location of Barrier(s) Downstream:

Approximately 2.5 miles downstream of proposed F/N break on subject stream.

**(15) Is there evidence of recent mass wasting (filling in the stream channel) or scouring events?**

☒ No ☐ Yes; estimate when the event occurred: _____

Describe how this affected current stream channel conditions and fish distribution in the stream:

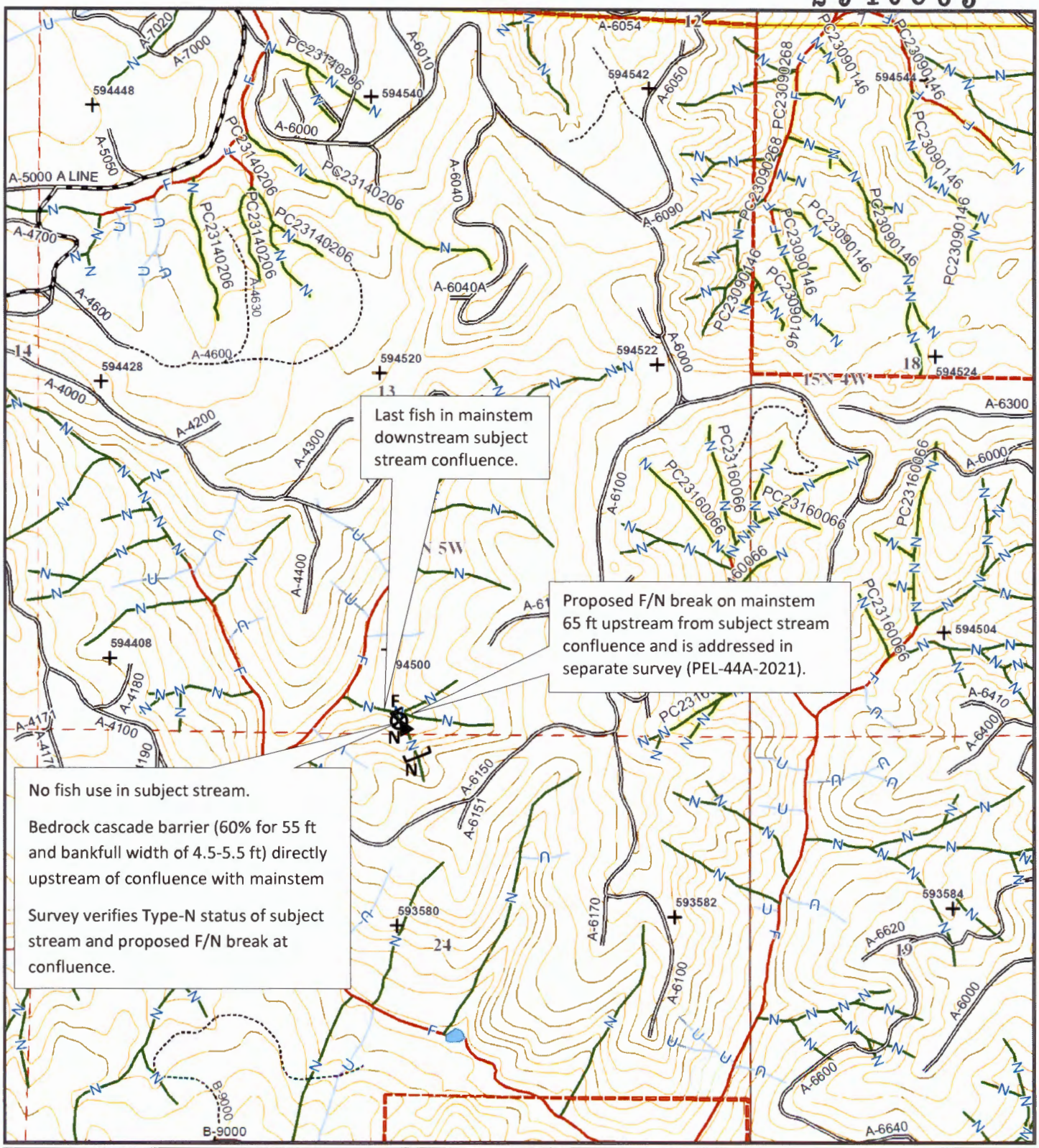
**(16) Provide any additional clarifying information and list attachments (survey cards, photos of type break, field notes, expert report, stationing, etc).**

- Field survey form describing stream attributes encountered near and upstream of the observed last fish point. Information specific to habitat features at the last fish point and proposed F/N break are provided, including how the points are marked in the field and latitude and longitude of F/N break location.
- Water type map with location of last observed fish, proposed F/N break, other proposed modifications if applicable (addition and removal of streams), and other notable features.

# Forest Practice Water Type Map

T15N R05W sec 13 and 24 PC-23-22-0116

**Site Code: PEL-44B-2021** -2940863-




**Map Symbols**

- Add Stream Segment
- Proposed Water Type
- Remove Stream Segment
- Proposed F/N Break
- Start/End of Survey
- Natural Fish Barrier
- Last Fish

NAD83
Contour Interval: 40 Feet

0 500 1,000 Feet

1/21/2021

**Additional Information**

-2940863-

# Weyerhaeuser Stream Typing Field Form – Washington 2021

PC-23-22-0116

Site Code: PEL-44B-2021 Location: Section: 13,24 T: 15N R: 5W

Survey Date: 5/18/2021 Surveyor: Terrapin: BG, JM Book #: BG: 1-2021

Basin: Independence Cr Stream: unnamed Characterization of Flow: -

Conductivity: - Water Temperature: - Electrofisher Setting: -

**BRIEF SITE SUMMARY:** Last fish (cutthroat) on mainstem 215 ft downstream of subject streams confluence. Mainstem F/N break 65 ft upstream of subject streams confluence with mainstem.

No fish use in subject stream.

Proposed F/N break at confluence with mainstem beneath bedrock cascade barrier (60% for 55 ft and bankfull width of 4.5-5.5 ft) directly upstream of confluence. No surface flow at time of survey.

Note that the WDFW Fish Passage Inventory identified two potentially blocking culverts at the same site situated on Independence Creek over two miles downstream of proposed F/N break on subject stream. Site ID (1.2) 604082 – round smooth steel, 1.3 ft diameter, 13.8 ft long, slope 0.48%, outlet drop of 0.0 ft. Site ID (2.2) 604082 – round smooth steel, 1.3 ft diameter, 15.4 ft long, slope -2.13%, outlet drop of 0.0 ft. The barrier and passability status for both culverts area listed as unknown. These culverts are believed to have no influence on the proposed F/N break of subject stream, as cutthroat trout and sculpin are known to inhabit waters upstream of the culverts and the proposed F/N break was established at prominent barrier

*All survey information, with the exception of the Last Fish Point location / description, refers to the subject stream and not the mainstem (mainstem information is addressed on separate survey report (PEL-44A-2021).

## INFORMATION ON LOCATION OF UPPERMOST FISH FOUND ("LAST FISH")

Protocol Survey conducted upstream of Last Fish? **YES** / **NO** F/N Break at Last Fish? **YES** / **NO**

Species at Last Fish: CT Fish Size-Classes/Abundance near Last Fish: 70 mm / low abundance

Change to water type? **YES** / **NO** From: N To: N Reason: no fish use

Change to hydro layer? **YES** / **NO** [ ] Location Change [ ] Add Stream [ ] Remove stream

**IF LAST FISH POINT ESTABLISHED:**

Marker/Location: Orange plaque/ribbon on mainstem 215 ft downstream of confluence with mainstem (46.77998 -123.25729)

Last Fish Point: Category: AC Type: none Feature: none

Last Fish Point Description: 130 ft upstream from confluence with mainstem within reach of 5-10% gradient and bankfull width of 2.5-3.5 ft with no other apparent changes in habitat directly upstream.

Description of Habitat Directly Adjacent (upstream and downstream) to Last Fish:

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | 5% | Upstream: | 10% |
| Width (bfw / ww): | Downstream: | 2.5-3 ft / 1-1.5 ft | Upstream: | 3-3.5 ft / 2-3 ft |
| Confinement: | Downstream: | mod high | Upstream: | high |

## INFORMATION ON SURVEYED REACH UPSTREAM OF LAST FISH

Distance Sampled: 225 ft Pools Sampled (quality/small): 0 / 10 Species Present: none observed

Other Natural Barriers Upstream of Last Fish? **YES** / **NO**

Further Description of Habitat Upstream of Last Fish: See additional notes in table provided below.

F/N Point Proposed at Habitat Break Upstream of Last Fish? **YES** / **NO** PC-23-22-0116

**IF HABITAT BREAK PROPOSED UPSTREAM OF LAST FISH:**

Habitat Break Marker/Location: Orange and orange / white ribbon hung at confluence with mainstem 215 ft upstream of last fish (46.77977 -123.25644)

Habitat Break Information: Category: CF Type: barrier Feature: bedrock cascade

Habitat Break Description: Bedrock cascade barrier (60% for 55 ft and bankfull width of 4.5-5.5 ft spread across bedrock) directly out of confluence with mainstem.

Description of Habitat Directly Adjacent (upstream and downstream) to Habitat Break Point:

| | | | | |
|---|---|---|---|---|
| Gradient (%): | Downstream: | mainstem 12% | Upstream: | 60% |
| Width (bfw / ww): | Downstream: | 2.5-3.5 ft / 1.5-2 ft | Upstream: | 4.5-5.5 ft / 0 ft |
| Confinement: | Downstream: | mod high | Upstream: | high |

**ADDITIONAL SUMMARY INFORMATION ON ENTIRE SURVEYED REACH**

Total Length of Stream Surveyed (includes upstream & downstream of Last Fish & F/N Break): 570 ft

Total Number of Fish Encountered (by species): none observed Total Electrofisher Shock Seconds: ---

Photos? **YES** / **NO** Description: see caption below

Do drought conditions appear to impact fish distribution at this site? **YES** / **NO** (if yes, see attached supplemental form)

**DATA FOR WTMF BOX 12:** Station '0 ft' at: [ ] Last Fish [ • ] F/N Break [ ] Other:

| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| **BF W (ft)** | 1.8 | 4.8 | 0.9 | 0.8 | 0.6 | | | | | |
| **Wet W (ft)** | 0 | 0 | 0 | 0 | 0 | | | | | |
| **Max D (ft)** | 0 | 0 | 0 | 0 | 0 | | | | | |

Station interval distance: 50 ft Notes/Comments:

If at least 10 evenly distributed channel measurements were not taken, describe why here : Protocol survey concluded at 225 ft as gradient remained greater than 20% upstream.

**ADDITIONAL NOTES, DRAWINGS, ETC:**

Station 0 = confluence with mainstem

| Station (ft) | Gradient (%) | BFW (ft) | WW (ft) | Confine -ment | Substrate | Notes |
|---|---|---|---|---|---|---|
| 0-55 | 60 | 4.5-5.5 | 0 | high | bedrock | ▲ cascade barrier |
| 55-105 | 23 | <1 | | | sm gravel fines | |
| 105-225 | 28 | | | | fines sm gravel | |

-2940863-



PC-23-22-0116

**PEL-44B-2021: Bedrock cascade (60% for 55 ft and bankfull width of 4.5-5.5 ft) directly out of confluence with mainstem.**

# Washington Department of Natural Resources
# Forest Practices Water Type Modification Form

## WTMF Summary

2940863

## PC-23-22-0116

**Legal Descriptions: T15-0N R5-0W S13, T15-0N R5-0W S24**

---

**Comment Due Date: 10/27/2022**

| Reviewer | Concur | Partial Concur | Non-Concur | No Decision | No Response | Date |
|---|---|---|---|---|---|---|
| ADAMS, KAREN | ✓ | | | | | 10/17/2022 |
| BRIGGS, CHRIS | ✓ | | | | | 10/17/2022 |
| FASANO, CAPRICE | | | | | ✓ | |
| HARKE, VINCE | | | | | ✓ | |
| LOWERY, DARRIC | | | | | ✓ | |

| Stream Segment | ADAMS, KAREN | BRIGGS, CHRIS | FASANO, CAPRICE |
|---|---|---|---|
| PEL-41A-2021 | ✓ | ✓ | |
| PEL-41B-2021 | ✓ | ✓ | |
| PEL-42-2021 | ✓ | ✓ | |
| PEL-43-2021 | ✓ | ✓ | |
| PEL-44A-2021 | ✓ | ✓ | |
| PEL-44B-2021 | ✓ | ✓ | |

| Stream Segment | HARKE, VINCE | LOWERY, DARRIC |
|---|---|---|
| PEL-41A-2021 | | |
| PEL-41B-2021 | | |
| PEL-42-2021 | | |
| PEL-43-2021 | | |
| PEL-44A-2021 | | |
| PEL-44B-2021 | | |

☒ **DNR Concur**
☐ **DNR Non-concur**

**Justification by WEINKE, ERIC on 10/28/2022**

I CONCUR WITH THIS WTA. THE SURVEY MATCHES THE PHYSICAL STREAM VERY WELL. FROM WHAT I HAVE SEEN ON THE GROUND, I WOULD CONCUR THAT THE EOH IS IN THE RIGHT SPOT. EVEN THOUGH THE BFW IS HANGING AROUND 2FT AND THE GRADE IS NOT QUITE 16% THE

STREAM DEPTH IS ONLY A FEW INCHES AND THERE NO QUALITY POOLS AND THE STREAM BED IS LACKING GRAVELS.

## Responses

- **ADAMS, KAREN - WA DEPARTMENT OF FISH & WILDLIFE Concurred on 10/17/2022**
  - Based on desktop review and field notes from the FPF, I concur.

  - 10/17/2022 8:19:15 AM
- **BRIGGS, CHRIS - WA DEPARTMENT OF ECOLOGY Concurred on 10/17/2022**
  - Concur based on remote review and field notes provided by DNR FPF.

  - 10/17/2022 2:35:34 PM
- **FASANO, CAPRICE - QUINAULT INDIAN NATION No response**
- **HARKE, VINCE - US DEPARTMENT OF FISH & WILDLIFE No response**
- **LOWERY, DARRIC - WA DEPARTMENT OF FISH & WILDLIFE No response**
- **DNR Forester - WEINKE, ERIC - DNR FOREST PRACTICES Concurred on 10/28/2022**

Forest Practices Application/Notification

# Notice of Decision

**FPA/N No:** 2940863

**Effective Date:** 10/27/2022

**Expiration Date:** 10/27/2025

**Shut Down Zone:** 655

**EARR Tax Credit:** ■ Eligible ☐ Non-eligible

**Reference:** 13,24-15-5W

Harp Rd A-6130 Units & Rds

## Decision

☐ **Notification Accepted** 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.

☐ **Withdrawn** Applicant has withdrawn the Forest Practices Application/Notification (FPA/N).

☐ **Closed** All forest practices obligations are met.

**FPA/N Classification**

☐ Class II ■ Class III ☐ Class IVG ☐ Class IVS

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

☐ 4 years ☐ 5 years

**Conditions on Approval/Reasons for Disapproval**

No additional conditions.

NOTE: The applicant must comply with all elements of WAC 222-30-045 Salvage logging within riparian management zones.

**Issued By:** Eric Weinke **Region:** Pacific Cascade

**Title:** Forest Practices Forester **Date:** 10/27/2022

**Copies to:** ■ **Landowner,** ■ **Timber Owner** ■ **Operator**

**Issued in person:** ☐ **Landowner** ☐ **Timber Owner** ☐ **Operator** **By:** _____

**Appeal Information**
You have thirty (30) days to ***file*** (i.e., ***actually deliver***) an appeal in writing of this Decision and any related State Environmental Policy Act (SEPA) determinations to the Pollution Control Hearings Board, the Attorney General's Office, and the Department of Natural Resources' region office. See RCW 76.09.205. The appeal period starts when the applicant receives this decision, which usually happens electronically on the date indicated below.

**You must file your appeal at all three addresses below:**

| **Pollution Control Hearings Board** | **Office of the Attorney General Natural Resources Division** | **Department Of Natural Resources** Pacific Cascade Region |
|---|---|---|
| Physical Address<br>1111 Israel Road, SW<br>Suite 301<br>Tumwater, WA 98501<br><br>Mailing address<br>Post Office Box 40903<br>Olympia, WA 98504-0903 | Physical Address<br>1125 Washington Street, SE<br>Olympia, WA 98504<br><br>Mailing Address<br>Post Office Box 40100<br>Olympia, WA 98504-0100 | Physical Address<br>601 Bond Road<br>Castle Rock WA 98611<br><br>Mailing Address<br>Post Office Box 280<br>Castle Rock WA 98611 |

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

**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.

**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 website https://www.dnr.wa.gov/programs-and-services/forest-practices/review-applications-fpars/forest-practices-forms-and. Notify DNR of new Operators within 48 hours.

**Continuing Forestland 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 forestland 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 and 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 forestland obligation, the seller must pay the buyer's costs related to continuing forestland obligations, including all legal costs and reasonable attorneys' fees incurred by the buyer in enforcing the continuing forestland obligation against the seller.

Failure by the seller to send the required notice to 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 forestland obligation prior to sale.

**DNR Affidavit of Mailing**

On this day 10/27/2022 I placed in the United States mail at Castle Rock, WA, postage paid, a true and accurate copy of this document. Notice of Decision FPA # 2940863.

Jacqui Spahr
*(Printed Name)*

Jacqui Spahr
*(Signature)*