

Electrofishing and Water Typing

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Washington Department of Fish and Wildlife

Presented to:

TFW Policy Committee
Electrofishing Workshop



WDFW Water Type Review

WDFW Water Type Review Process Is Based On:

- Board Manual #13
- Water Type Modification Form Answers and Data
- Water Type Review Team Coordination
- Field Review When Necessary



Board Manual 13

Section 13

Guidelines for Determining Fish Use for the Purpose of Typing Waters

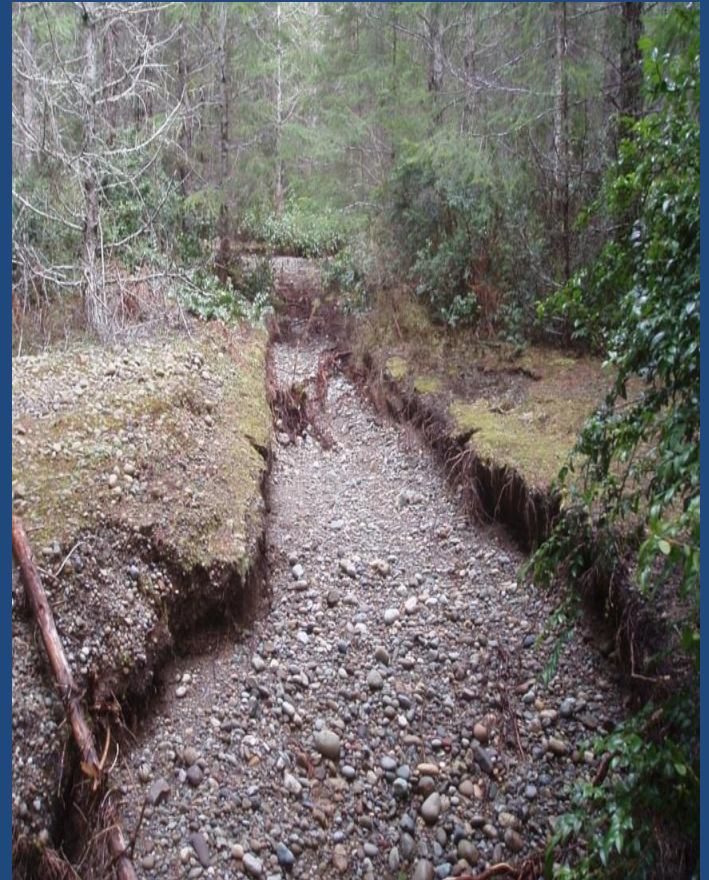
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Until the fish habitat water typing maps are available, as per WAC 222-16-030, the following methods are for use with implementing the interim water typing system (WAC 222-16-031(3) Type 3 Water) in the forest practices rules.

Survey Timing

Surveys Need to be conducted when:

- Fish Most Likely To Be Present
- Flow is Most Likely Present
- March 1st to July 15th Generally
- Pre-Survey Consultation with WDFW and Tribes Recommended



Water Type Modification Form

9. *Forest Practices Application Number(s) (if applicable)

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

Survey method:

- Electrofishing Protocol Survey (attach survey report; if report addresses information in block 11-16 no need to fill in these blocks)
- ID Team: (If you check this box attach ID team report)
- Visual observation (If you check this box fill out block 11-16)
- Random Measurements (If you check this box fill out block 11-16)
- Incremental Measurements If you check this box fill out block 11-16)
- Fish found List species found (if known)_____
- No fish found
- Physical characteristics (If you check this box fill out block 11-16)
- Channel is a public water diversion Distance from diversion_____
- Channel is a fish hatchery diversion Hatchery name_____
- Distance downstream from hatchery_____
- Water feature does not meet WAC 222-16-031 definition.

Describe:

11. Water levels in the survey area were: Above Normal Normal Below Normal

Was there a drought warning issued by the DNR? Yes No

Document is located at (http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx)

If yes, describe:

Survey Effort

Protocol Survey Must Include:

- 12 of the reaches highest quality pools and
- At least 1/4 mile of stream length from last fish,
or
- To where gradient increases and remains above
the 20% gradient threshold

Water Type Modification Form

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If yes, describe:

Water Type Modification – Page 2

12. Channel Characteristics (Use stream segment tally sheet for multiple stream segment information.)

Number of bankfull width measurements _____	Narrowest bankfull width measurement _____
Widest bankfull width measurement _____	Average bankfull width _____
Lowest gradient _____	Steepest gradient _____
Average gradient _____	Average wetted width _____
Ponds and impoundments >0.5 acre <input type="checkbox"/> Yes <input type="checkbox"/> No	Number of protocol pools _____

13. The water type break was determined by: (Check all boxes that apply. For multiple segments use stream tally sheet.)

- Protocol electrofishing survey (*attached survey information*)
- The end of harvest or property boundary
- The junction of two or more streams
- Do the Type F physical characteristics occur above surveyed segment? Yes No
- The uppermost point of perennial flow. (describe in block 16)
- The last observed fish
- The upper extent of proposed fish habitat
- Physical characteristics
- Other (describe): _____

Provide a description of water type break, how it is marked in the field and if available latitude and longitude of type break location:

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

- No. Continue to block 15
- Unable to access
- Yes. Mark box(s) below

Natural barriers: Falls Cascades Bedrock chutes Other (describe): _____

Enter the length, height and gradient of the natural barrier you checked.

Length _____ Height _____ Gradient _____

- Temporary barriers (log jams)
- Man-made barriers, Describe: _____

Were fish observed above the barrier? Yes No

Fish passage barriers were identified by: Maps Field observation

Describe location:

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 these affected current stream channel conditions and fish distribution in the stream.

Channel Characteristics

Stream Size



Ponded Water



Water Type Modification Form Cont.

12. Channel Characteristics (Use stream segment tally sheet for multiple stream segment information.)

Number of bankfull width measurements _____ Narrowest bankfull width measurement _____
Widest bankfull width measurement _____ Average bankfull width _____
Lowest gradient _____ Steepest gradient _____
Average gradient _____ Average wetted width _____
Ponds and impoundments >0.5 acre Yes No Number of protocol pools _____

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Blockages to Fish Passage

Permanent Natural

Temporary



Blockages to Fish Passage

Man - Made



Water Type Modification – Page 2

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Describe location:

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 these affected current stream channel conditions and fish distribution in the stream.

Drought and Other Factors

Floods



Mass Wasting

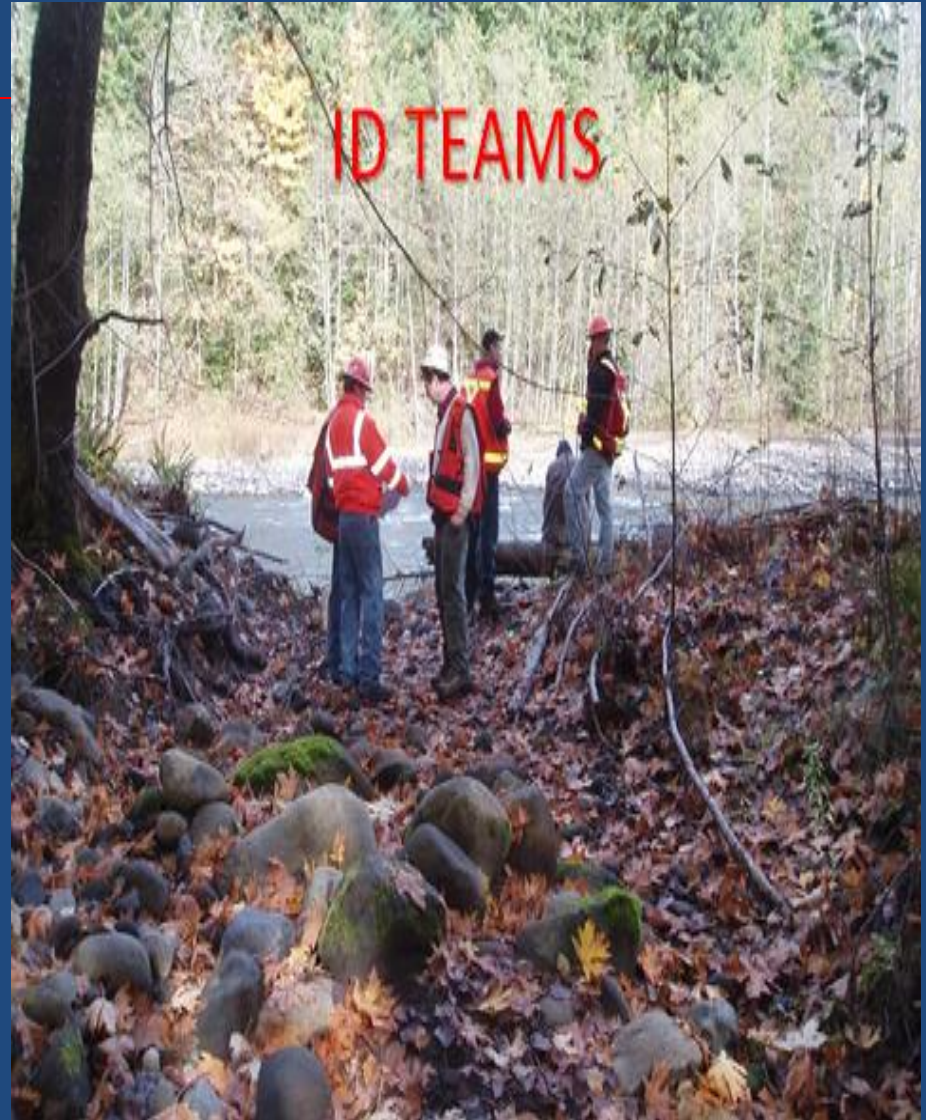


Is Field Review or ID Team Necessary?



Common ID Team Issues

- Temporary/Permanent Natural Barriers
- Man-Made Barriers
- Habitat Above Last Fish
- Channel Disturbance



Questions?

