# **Electrofishing and Water Typing**

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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

Board Manual - 02/2002

Determining Fish Use for the Purpose of Typing Waters

#### Section 13 Guidelines for Determining Fish Use for the Purpose of Typing Waters

PART 1. INTRODUCTION	
PART 2. CONSIDERATIONS REQUIRED FOR WATER TYPE CHANGE PROPOSALS	2
Stream Features	2
Drought Conditions and Other Factors Affecting Population	
Distribution	
Scientific Collection Permits	;
Blockages to Fish Passage	3
PART 3. SURVEY TIMING	
PART 4. SURVEY EFFORT	;
PART 5. QUALIFIED AND TRAINED STAFF	ł
PART 6. ALTERNATIVES FOR MAKING FISH USE DETERMINATIONS	ł

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.

### Water Type **Modification Form**

- **Stream Surveyed**
- **Survey Timing**  $\mathbf{O}$
- Type of Water Type Change •
- **Survey Methods and Results** 0
- **Survey Conditions**
- Water Type Break Determination
- **Barrier** Information ۲
- **Evidence of Mass Wasting** ۰



Region	WRLA	Vumber- DN Year	Number
leceived 1	Date		

#### Read instructions prior to filling out

#### Water Type Modification Form (For changes to the Water Type Map)

* Proponent name	Organization name and address	Telephone number	
		Email address	_
Surveyor name (s)	Organization name and address	Telephone number	
		Email address	_

#### Check applicable boxes:

[] \*Adding streams/lakes

\*Removing streams/lakes (describe in box 16)

[]\*Changing location of streams/lakes (describe in box 16)

] Changing water type [] Other. Describe

. *Water Segment ID	2. Name of Water	3. Tribu	tary To		Description (1/4, 1/4 Section, Range, E/W)
5. *County	6. Water Type Shor Map	wn on	7. Propose	ed Water Type	8. *Date of Field Assessment
9. *Forest Practices App	lication Number(s) (if a	applicable)	)		
10. Change is based on	the following (check a	ll that appl	y).		
	this box attach ID team re you check this box fill out ts (If you check this box f	eport) t block 11-1 fill out block	6) ( 11-16)	information in block	11-16 no need to fill in these blocks)
[] No fish found	List species found (if kno s (If you check this box fi	1	11-16)		
[ ] Channel is a public wa [ ] Channel is a fish hatch		Hatc	hery name	ersion	2
[ ] Water feature does no Describe:	t meet WAC 222-16-031				
11. Water levels in the	survey area were:	[] Above I	Normal	[] Normal	[] Below Normal
Was there a drought warr	ning issued by the DNR?	[]Yes [	] No		
Document is located at ( If yes, describe:	http://www.dnr.wa.gov/Bu	usinessPerr	mits/Topics/F	orestPracticesApplic	cations/Pages/fp_watertyping.aspx

Washington State Department of Natural Resources • Water Type Modification Form August 15, 2013

# Survey Timing

Surveys Need to be conducted when:

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



## Water Type Modification Form

9. *Forest Practices Application Number(s) (if applicable)
<ul> <li>10. Change is based on the following (check <u>all</u> that apply).</li> <li>Survey method: <ul> <li>Electrofishing Protocol Survey (attach survey report; if report addresses information in block 11-16 no need to fill in these blocks)</li> <li>ID Team: (If you check this box attach ID team report)</li> <li>Visual observation (If you check this box fill out block 11-16)</li> <li>Random Measurements (If you check this box fill out block 11-16)</li> <li>Incremental Measurements If you check this box fill out block 11-16)</li> <li>Incremental Measurements If you check this box fill out block 11-16)</li> <li>Fish found</li> <li>List species found (if known)</li></ul></li></ul>
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:

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# 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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### Water Type Modification – Page 2

12. Channel Characteristics (Use stream segment tally she	eet 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
13. The water type break was determined by: (Check all b	oxes that apply. For multiple segments use stream tally
sheet.)	
[] Destand desta fision survey (attacked survey information)	
<ul> <li>Protocol electrofishing survey (attached survey information)</li> <li>The end of hereigned or property boundary</li> </ul>	
<ul> <li>The end of harvest or property boundary</li> <li>The junction of two or more streams</li> </ul>	
Do the Type F physical characteristics occur above sur	veved segment2 [] Ves [] No
[] The uppermost point of perennial flow. (describe in block 1)	
[] The last observed fish	5/
The upper extent of proposed fish habitat	
[] Physical characteristics	
[ ] Other (describe):	
Provide a description of water type break, how it is marked in th	e field and if available latitude and longitude of type break location:
riorde a description of water type break, now it is marked in a	e nela and il available lattade and longitude of type break location.
14. Are there any fish passage barriers downstream of the	surveyed stream segment(s)?
The area any non-passage barriers downsacam of the	Surveyed Stream Segment(S):
[] No. Continue to block 15	
[] Unable to access	
[] Yes. Mark box(s) below	
[] Natural barriers: [] Falls [] Cascades [] Bedro	ck chutes [] Other (describe):
Enter the length, height and gradient of the natural barrier ye	ou checked
Length Height	
[] Temperany barriers (leg jame)	
[ ] Temporary barriers (log jams) [ ] Man-made barriers, Describe:	
Were fish observed above the barrier? [] Yes [] No	
Fish passage barriers were identified by: [] Maps [] Fie	Id observation
Deserites to setime	
Describe location:	
15. Is there evidence of recent mass wasting (filling in the	stream channel) or scouring events?
Te. Io aloro officilito of robolit fildeo fracting (filling if alo	en earn en anner) er eeeaning erente.
[]No	
[] Yes. Estimate when the event occurred	
Describe how these affected current stream channel co	inditions and fish distribution in the stream

# **Channel Characteristics**

#### Stream Size



### Ponded Water



### Water Type Modification Form Cont.

12. Channel Characteristics (Use stream segment tally she	et for multiple stream segment information.)
12. Oldriner Onaraciensiles (ose siream segment any on	et for multiple su cam segment information.
Number of bankfull width measurements	Narrowest bankfull width measurement
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<ul> <li>The uppermost point of perennial flow. (describe in block 1</li> <li>The last observed fish</li> </ul>	0)
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<ul> <li>[] No. Continue to block 15</li> <li>[] Unable to access</li> <li>[] Yes. Mark box(s) below</li> </ul>	
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[ ] Temporary barriers (log jams)         [ ] Man-made barriers,       Describe:	
Were fish observed above the barrier? [] Yes [] No Fish passage barriers were identified by: [] Maps [] Fig	ald observation
Describe location:	
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[ ] No	
[] Yes. Estimate when the event occurred	
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# **Blockages to Fish Passage**

#### **Permanent Natural**



# Blockages to Fish Passage

#### Man - Made

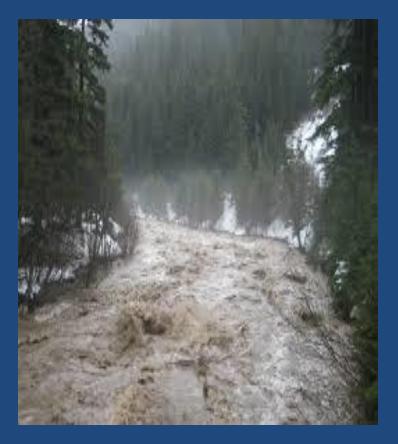


### Water Type Modification – Page 2

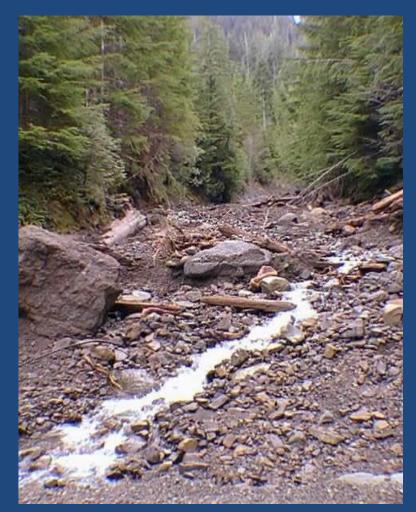
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Desense now these uncolor current stream thannel to	analishe and non distribution in the stream.

# **Drought and Other Factors**

### Floods



### Mass Wasting

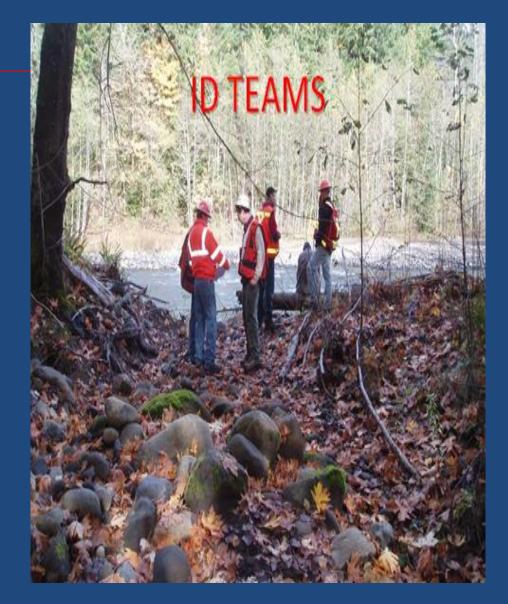


### Is Field Review or ID Team Necessary?



### Common ID Team Issues

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



# Questions?

