

## Project #13-1342, Icicle Boulder Field Passage Design

Current Status: Application Submitted

### Project Details

**Primary Sponsor:** Trout Unlimited - Washington Water Project

**Primary Contact:** Aaron Penvose  
(509) 888-0970  
apenvose@tu.org

**Funding Program:** Salmon State Projects

**Lead Entity:** Chelan County Lead Entity

**Project Type:** Planning

### Project Description

Trout Unlimited - Washington Water Project's (TU-WWP) Icicle Creek Boulder Field Passage Design Project proposes to complete preliminary designs for fish passage at the boulder field in Icicle Creek and assess spawning and rearing habitat above the barrier. Icicle Creek is the major fish-bearing tributary to the Wenatchee River, in WRIA 45. This project will build on TU-WWP's recent work of assessing the potential for fish distribution in the 23 miles above the boulder field prominently present on Icicle Creek. The design will focus on habitat connectivity for listed salmonids, addressing a documented limiting factor as further described in the attached proposal.

### Project Overall Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer
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#### Completion Date

Projected date of completion	5/31/2015
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#### Sponsor Match: Monetary Funding

Amount of other monetary funding	\$0.00
Project identifier for the other monetary funding	NA
Source of other monetary funding	NA

#### Sponsor Match: Donated Un-paid Labor (volunteers)

Value of Donated Unpaid Labor (Volunteers)	\$0.00
Source of Donated Un-paid labor contributions	NA

#### Sponsor Match: Donated Paid Labor

Value of Donated Paid Labor	\$0.00
Source of Donated Paid Contributions	NA

#### Sponsor Match: Other In-kind Contributions

Value of Other In-Kind Contributions	\$0.00
Source of Other In-Kind Contributions	NA
Description of other In-Kind contributions	NA

### Project Funding

Funding Request		Funding %	Min Match Required
Salmon State Projects (FY2014)	\$179,000	100.00 %	
Total Project Funding	\$179,000	100.00 %	

  

Project Cost Summary		Project %	Admin/A&E %	Maximum for Selected Program
<b>PLANNING COSTS</b>				
Planning	\$179,000			
A&E	\$0		0.00 %	\$53,700 (30%)
Subtotal	\$179,000	100.00 %		
<b>Total Cost Estimate</b>	<b>\$179,000</b>	<b>100.00 %</b>		

### Worksites and Properties

**General Area:** Southwest of Leavenworth

**County:** Chelan

**Legislative Districts 2002:** 12

**Legislative Districts 2012:** 12

**Congressional Districts 2002:** 04

**Congressional Districts 2012:** 08

**Salmon Recovery Regions:** Upper Columbia

**DNR Watershed Units (WAU):** Enchantment

4th Field Catalog Units (HUC): Wenatchee  
WRIA: Wenatchee  
Sections: 28  
Township: T24NR17E  
Coordinates: 47.54407963  
-120.71237429

## Worksite #1: Icicle Boulder Field

Coordinates from Mapped Point:	Latitude: 47.54407963	Longitude: -120.71237429
Coordinates from Worksite	Latitude:	Longitude:
Directions:		

**Worksite Description:** Worksite is RM 5.6-RM 5.7 of Icicle Creek upstream of Snow Creek Parking lot at the Icicle Boulder Field. Site Survey, Geologic Investigation.

**Site Access Directions:** IPID Irrigation Access Road from Snow Creek parking lot.

**Worksite Address:**

## Planning Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer	Work Type Costs
Targeted salmonid ESU/DPS	Steelhead-Upper Columbia River DPS	
Targeted species (non-ESU species)	Bull Trout	
Area Encompassed (acres)	21.9	
Miles of Stream Affected	0.32	
<b>Design for Salmon restoration</b>		
<b>Preliminary design</b>		
Total cost for Preliminary design		\$179,000.00
Name of Plan	Dominguez, L., P. Powers, E.S. Toth, and S. Blanton. 2013. Icicle Creek Boulder Field Fish Passage Assessment. Prepared for Trout Unlimited-Washington Water Project, Wenatchee, WA.	
Description of Plan	The Icicle Creek Boulder Field Fish Passage Assessment (Dominguez, L., 2013) identified two primary areas of fish passage impediment in the 2,700 foot study reach: one large boulder (the "Anchor Boulder") and the material that collects behind it, is the primary impediment during the majority of flows (with a 21 foot vertical drop and 30% gradient) and the second impediment is the upstream irrigation diversion dam during the low flows. The assessment provided conceptual designs and construction cost estimates for 4 passage alternatives for the Anchor Boulder and 2 passage alternatives for the diversion dam, which were narrowed to one preferred option at each impediment: Channel Profile Adjustment at Anchor Boulder and Pool and Chute Fishway at diversion dam.	

## Planning Questions

- 1 of 3

Has the worksite been investigated for historical, archeological, or cultural resources? If yes, when did this occur and what agencies and tribes were consulted? Attach related documents (letters, surveys, agreements, etc.) to your project in PRISM.  
NO
- 2 of 3

What is the current land use of the site, and its history?  
River Channel and irrigation access road. Irrigation Access road was previous CCC road.
- 3 of 3

Is the worksite(s) located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site? If yes, name the area and specify if the land is owned by local, state or federal government.  
No

## Overall Project Questions

- 1 of 10

Do you need state SRFB dollars (not Federal) to match the requirements of any other federal funding you will be using to complete this project. If Yes, please state the amount of state dollars needed out of your total request.  
No
- 2 of 10

Describe any ground disturbing work that will be necessary as part of the design process, such as geotech work. Include anticipated number of test sites, depth of disturbance, location, etc.  
For the geotechnical work, we may conduct boring through rock and road from mid-channel to the irrigation access road, 10-20', approximately 3-5 test sites, for 200 feet upstream of Anchor Boulder.
- 3 of 10

Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. ([www.dnr.wa.gov/Publications/aqr\\_land\\_manager\\_map.pdf](http://www.dnr.wa.gov/Publications/aqr_land_manager_map.pdf))  
No
- 4 of 10

Do your organizational documents (charter, bylaws, or articles of incorporation) include the authority for the protection or enhancement of

Yes

Yes

none listed

none listed

602-988-374

1959

Since 1959, TU has been involved in Salmonid protection and habitat conservation.

Permit Type	Applied Date	Received Date	Expiration Date	Permit Number
None - No permits Required				

Required Attachments	5 out of 5 done
Cost Estimate	<input checked="" type="checkbox"/>
Landowner acknowledgement form	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>
Planning Area Map	<input checked="" type="checkbox"/>
Salmon Project Proposal	<input checked="" type="checkbox"/>

Attachment Type	Title	Attach Date	Worksite/Property
Cost Estimate	Slide1.jpg	08/01/2013	
Design document	Fish Passage Assess Report May 2013.pdf	06/19/2013	Icicle Boulder Field (#1)
Memos and correspondence	Appendix_G1_Response_Early_Review - TU-WWP Icicle Boulder.pdf	08/13/2013	
Photo	Esteemed Waterfall Engineer.jpg	08/01/2013	
Photo	RTT-SRFB RP Early Review.jpg	08/01/2013	
Photo	Falls .jpg	08/01/2013	
Planning Area Map	Slide2.jpg	08/01/2013	
Salmon Project Proposal	Icicle Boulder, Proposal, No Track Changes.pdf	07/12/2013	
Salmon Project Proposal	Icicle Boulder, Proposal, Track Changes.pdf	07/12/2013	

**Application Due Date: 08/16/2013**

Status	Status Date	Name	Notes
Application Submitted	08/13/2013	Aaron Penvose	
Preapplication	04/29/2013		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Aaron Penvose, 08/13/2013)

