

## Project #15-1174, Goodell Creek Restoration Feasibility

Current Status: Application Submitted

### Project Details

**Primary Sponsor:** Upper Skagit Indian Tribe  
**Secondary Sponsor:** Department of Transportation  
**Sponsor:** National Park Service - North Cascades National Park  
 Seattle City Light

**Primary Contact:** Rick Hartson  
 (360) 854-7049  
 rickh@upperskagit.com

**Funding Program:** Salmon State Projects  
**Project Type:** Planning

**Lead Entity:** Skagit Watershed Council Lead Entity

### Project Description

The Upper Skagit Indian Tribe (USIT), in partnership with National Park Service, Seattle City Light and Washington State Department of Transportation, is pursuing feasibility study for restoration of Goodell Creek alluvial fan, a tributary to the Upper Skagit River. Goodell Creek is an important tributary for restoration of Chinook population productivity and viability in the Skagit basin, as described in documents recently developed and updated by the Skagit Lead Entity. Functioning habitat in Goodell Creek will also benefit Skagit steelhead, as well as bull trout, cutthroat trout, coho salmon and pink salmon. Nearly all of Goodell watershed is well protected in public ownership, on land administered by the National Park Service. The exception to high quality functioning habitat is the alluvial fan, which displays a history of anthropogenic impacts that have resulted in a confined and straightened stream channel that is now disconnected from the surrounding floodplain and riparian zone. Restoration would improve channel form and function and reconnect over 60 acres of floodplain and riparian habitat, as well as ensure fish passage to the pristine areas above the alluvial fan. The Tribe sponsored a conceptual alternatives analysis, which resulted in a preferred alternative advocating levee removal, channel excavation and bridge construction. USIT and partners would produce a feasibility report of the preferred alternative.

### Project Overall Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer
<b>Completion Date</b>	
Projected date of completion	4/1/2017
<b>Sponsor Match: Monetary Funding</b>	
Amount of other monetary funding (A.12)	\$20,250.00
Project identifier for the other monetary funding (A.12.b)	PA-00J30801
Source of other monetary funding (A.12.a)	Environmental Protection Agency
<b>Sponsor Match: Donated Un-paid Labor (volunteers)</b>	
Value of Donated Unpaid Labor (Volunteers) (A.13.a.2)	\$0.00
Source of Donated Un-paid labor contributions (A.13.a.4)	N/A
<b>Sponsor Match: Donated Paid Labor</b>	
Value of Donated Paid Labor (A.13.b.1)	\$23,600.00
Source of Donated Paid Contributions (A.13.b.2)	National Park Service - \$14,600 Seattle City Light - \$9,000
<b>Sponsor Match: Other In-kind Contributions</b>	
Value of Other In-Kind Contributions (A.13.c.1)	\$0.00
Source of Other In-Kind Contributions (A.13.c.3)	N/A
Description of other In-Kind contributions (A.13.c.2)	N/A

### Project Funding

Funding Request		Funding %	Min Match Required	Sponsor Match Source	
Salmon State Projects	\$228,250	83.88 %		Donated Labor	\$23,600
Sponsor Match	\$43,850	16.12 %	15%	Grant - Federal	\$20,250
<b>Total Project Funding</b>	<b>\$272,100</b>	<b>100.00 %</b>			
<b>Project Cost Summary</b>		<b>Project %</b>	<b>Admin/A&amp;E %</b>	<b>Maximum for Selected Program</b>	
<b>PLANNING COSTS</b>					
Planning	\$272,100				
A&E	\$0		0.00 %		\$81,630 (30%)
Subtotal	\$272,100	100.00 %			
<b>Total Cost Estimate</b>	<b>\$272,100</b>	<b>100.00 %</b>			

### Worksites and Properties

County: Whatcom

**Legislative Districts 2012:** 42  
**Congressional Districts 2012:** 01  
**Salmon Recovery Regions:** Puget Sound  
**DNR Watershed Units (WAU):** Goodell Creek  
**4th Field Catalog Units (HUC):** Upper Skagit  
**WRIA:** Upper Skagit  
**Sections:** 20  
**Township:** T37NR12E  
**Coordinates:** 48.67369856  
 -121.26462258

## Worksite #1: Goodell Creek, tributary to Skagit River

**Coordinates from Mapped Point:**                      **Latitude:** 48.67369856                      **Longitude:** -121.26462258  
**Coordinates from Worksite**                      **Latitude:**                      **Longitude:**  
**Directions:**

**Worksite Description:** Project area is located approximately 1 mile west of Newhalem, WA in Whatcom County. The project area includes the mouth of Goodell Creek and extends upstream approximately 0.7 miles where a broad alluvial fan meets a canyon. Laterally, the project extends to the valley walls, which are clearly visible on LiDAR images. For hydraulic modeling purposes, the project boundary includes a several mile area of the Skagit River and floodplain. For geomorphic analysis, the project extends into the upper watershed where natural landslides occur that affect the sediment dynamics of the alluvial fan. Activities at the worksite for feasibility study will include site visits, topographic surveys, flow gaging, groundwater well excavation and monitoring, survey of levee materials and potentially excavation to collect water samples for toxicity testing, civil evaluation of roads and bridges, critical areas mapping, geomorphic analysis, geotechnical borings and archeological survey.

**Site Access Directions:** State Road 20 crosses Goodell Creek via a bridge, and this road crossing is within the boundary of the project area. Much of the project area is accessible via National Park Service campgrounds and access roads. A portion of the area is marked as off-limits to the public, though this area will not be focus of the study. Easement/ROW exists for Seattle City Light and Washington Department of Transportation and access to these areas may be secured by contacting the project sponsor.

**Worksite Address:**

## Planning Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer	Work Type Costs
Targeted salmonid ESU/DPS (A.23)	Chinook Salmon-Puget Sound ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Pink Salmon-Odd year ESU, Steelhead-Puget Sound DPS	
Targeted species (non-ESU species)	Bull Trout, Cutthroat, Searun Cutthroat	
Area Encompassed (acres) (B.0.b.1)	61.0	
Miles of Stream Affected (B.0.b.2)	0.60	

### Restoration Planning And Coordination Project

#### Conducting habitat restoration scoping and feasibility studies (B.1.b.8)

Description of the Plan (B.1.b.8.b)	The plan considered Goodell Creek alluvial fan, near Newhalem, WA. The alluvial fan and focal area of the plan extends approximately 0.6 miles up Goodell Creek from the confluence with the Skagit River and laterally to the valley walls, covering approximately 400 acres. During plan development the scope was reduced to a 60 acres of stream, disconnected floodplain and riparian area. The plan also considered the effects of upstream landslides and the downstream hydraulic boundary of the Skagit River. The purpose was to work collaboratively with staff from National Park Service and Seattle City Light to identify and select a preferred restoration alternative. The plan resulted in agreement on a restoration alternative that includes levee removal, relic channel reconnection and bridge construction. The purpose of restoration would be to reconnect isolated floodplain, restore instream complexity and side channel formation, and reengage the stream with the riparian zone. The project would benefit Chinook, Steelhead and other salmonids by improving spawning, rearing and refuge habitat.	
Name of the Plan (B.1.b.8.a)	Herrera Environmental Consultants, Inc. 2014. Conceptual Restoration Alternatives Analysis Memorandum: Goodell Creek Alluvial Fan, Tributary to the Skagit River, Newhalem, Washington. Prepared for Upper Skagit Indian Tribe, Sedro Woolley, WA.	
Total cost for Conducting habitat restoration scoping and feasibility studies		\$255,400.00

### Cultural Resources

#### Cultural resources

Total cost for Cultural resources		\$16,700.00
Acres surveyed for cultural resources	61.00	

## Planning Questions

1 of 4 **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.**

Yes, Previous archeological surveys have been completed on National Park Service land for known culturally sensitive sites within the proposed project area. National Park Service and Upper Skagit Indian Tribe have been in consultation and this will continue throughout project development.

**2 of 4 Will the project include any ground disturbing activities? (Please remember that this includes geotechnical survey sampling and the like.)**  
Yes, Archeological survey, groundwater testing wells.

**3 of 4 What is the current land use of the site? Has there been ground disturbances historically, if so, what are/were those disturbances? Is there any fill where ground disturbance is proposed? If known, how deep is the fill?**  
Public land administered by National Park Service, including public campgrounds. Additional uses includes easement/ROW for SR20 and easement/ROW for Seattle City Light power line towers. Historic ground disturbances include instream gravel mining, hydromodifications and levee construction, and placement of road fill for SR20 and bridge. Much of the disturbance likely occurred during construction of the Skagit Hydroelectric Project infrastructure starting as early as the 1920's. In subsequent decades the floodplain was used to dump fill and waste. It is unknown how deep the fill is, but levees extend up to 8 or 10 feet above the floodplain ground level.

**4 of 4 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.**  
Yes, Ross Lake National Recreation Area, land owned by National Park Service.

## Property for Goodell Creek, tributary to Skagit River Worksite #1: Department of Transportation, landowner

**Activity:** Planning

### Landowner

Department of Transportation (WSDOT)  
PO Box 47300  
Olympia, WA 98504-7300

**Landowner Type:** State Government

### Control and Tenure

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Perpetuity  
**Expiration Date:**  
**Note:**

## Property for Goodell Creek, tributary to Skagit River Worksite #1: National Park Service, landowner

**Activity:** Planning

### Landowner

National Park Service (NPS)  
909 First Ave  
Seattle, WA 98104-1060

**Landowner Type:** Federal Government

### Control and Tenure

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Perpetuity  
**Expiration Date:**  
**Note:**

## Property for Goodell Creek, tributary to Skagit River Worksite #1: Seattle City Light, landowner

**Activity:** Planning

### Landowner

Seattle City Light  
PO Box 34023  
Seattle, WA 98104

**Landowner Type:** Local Government

### Control and Tenure

**Instrument Type:** Landowner Agreement  
**Purchase Type:**  
**Term Length:** Perpetuity  
**Expiration Date:**  
**Note:**

## Overall Project Questions

**1 of 5 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.**  
Yes, \$228,250 needed in state dollars out of our \$228,250 SRFB request.

**2 of 5 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.**  
Archeological survey may require test pits, but the necessity for, number of, depth of, and specific location of pits will not be determined until an initial survey is completed by NPS and USIT archeologists. Previous archeological surveys have been completed for known culturally sensitive sites within the project footprint. Several arrays of groundwater testing wells will be dug in the floodplain project area. It is not yet known if any of these wells will be greater than 10 feet in depth.

**3 of 5 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, We have initiated consultation with WDNR and they have indicated the project is not on state owned aquatic lands.

**4 of 5 For grants listed in the Sponsor Match Category section on the Funding Request tab, list the grant source(s), when the funds were (or will be) secured, and how long the grant funds will be available to this project.**  
The grant listed is from the Environmental Protection Agency, Tribal Capacity Funds account. The funds have already been secured and will be used through December 2015 to conduct groundwater and flow gaging at the project location.

**5 of 5 Describe the type and timing of donated labor (skilled and unskilled), donated equipment, and donated materials that will be used for this project, identified in the Sponsor Match Category section on the Funding Request tab.**  
Donated labor will be from Seattle City Light and National Park Service staff who will participate on the Project Team throughout the feasibility study. This will include attending meetings, developing a funding strategy technical memo, and reviewing project deliverables.

# Project Permits

Permit Type	Applied Date	Received Date	Expiration Date	Permit Number
Hydraulics Project Approval [HPA]				
Water Rights/Well Drilling Permit				

# Project Attachments

**Required Attachments**      **5 out of 5 done**

Cost Estimate	<input checked="" type="checkbox"/>
Map: Area of Potential Effect (APE)	<input checked="" type="checkbox"/>
Map: Planning Area	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>
Salmon Project Proposal	<input checked="" type="checkbox"/>

## Photos

Attachment Type	Title	Attach Date
Cost Estimate	SRFB_Cost_Estimate.xlsx	06/11/2015
Cost Estimate	SRFB_Cost_Estimate_Final.xlsx	06/02/2015
Final project report	Concepts_Analysis_App_F_Habitat Connect.pdf	04/06/2015
Final project report	Concepts_Analysis_App_H_Alternatives Eval.pdf	04/06/2015
Final project report	Concepts_Analysis_App_G_2D Model Results.pdf	04/06/2015
Final project report	Concepts_Analysis_App_E_Hydrologic Analysis.pdf	04/06/2015
Final project report	Concepts_Analysis_Report_Body 12-09-14.pdf	04/06/2015
Final project report	Concepts_Analysis_Appendix_C_Survey.pdf	04/06/2015
Final project report	Concepts_Analysis_App_D_Geomorph Analysis.pdf	04/06/2015
Final project report	Concepts_Analysis_App_B_Photo Points.pdf	04/06/2015
Final project report	Concepts_Analysis_App_A_Historical Timeline.pdf	04/06/2015
Map: Planning Area	Project_Vicinity_Map.pdf	04/04/2015
Photo	Right_bank_hydrmodification.jpg	04/06/2015
Photo	Left_bank_levee_and_isolated_wetland.jpg	04/06/2015
Photo	Right_bank_avulsion.jpg	04/06/2015
Photo	Left_bank_isolated_wetland.jpg	04/06/2015
Photo	Left_bank_levee.jpg	04/06/2015
Photo	Goodell_Creek.jpg	04/06/2015
Photo	Upstream_landslide.jpg	04/06/2015
Photo	Landslide_lake.jpg	04/04/2015
Salmon Project Proposal	Project_Proposal_Final Application_6.1.2015.docx	06/02/2015

# Application Status

**Application Due Date:** 08/14/2015

Status	Status Date	Name	Notes
Application Submitted	07/15/2015	Rick Hartson	
Preapplication	03/25/2015		

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. (Rick Hartson, 07/15/2015)