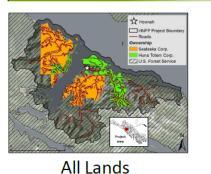
Large Wood Stream Restoration Using Hand Methods

Katherine (K.K.) Prussian, USFS Neil Stichert, USFS (formerly USFWS) Ian Johnson, Hoonah Indian Association

Why Spasski?

- Hoonah Native Forest Partnership
 - High Value
 - High Risk
- Tongass Priority Watershed
- USFWS Tribal Wildlife Grant
- NFHP Waters to Watch

Land O Jobs O Wildlife O Forests O Community O Partnerships O Economy O Fish O Deer O Culture O Water

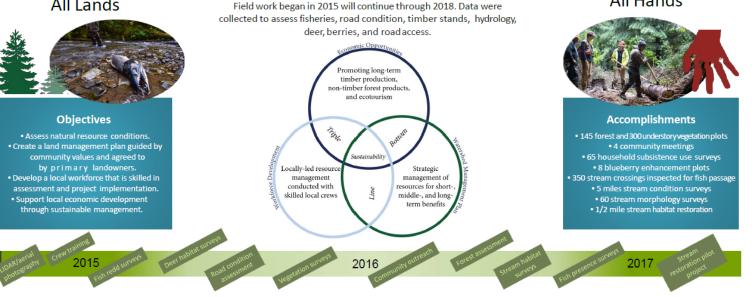


Hoonah Native Forest Partnership

The HNFP began in 2015 as a science-based, landscape scale, community forest approach to watershed planning and project implementation. Major landowners and stakeholders entered into an agreement outlining the commitments, roles, and responsibilities of each party. With support from the USDA Natural Resources Conservation Service, HNFP secured startup funding from the Regional Conservation Partnership Program. Matching financial and in-kind contributions from the partners, and technical support from HNFP members and collaborators make this project southeast Alaska's premier all-lands, all-hands initiative.



All Hands



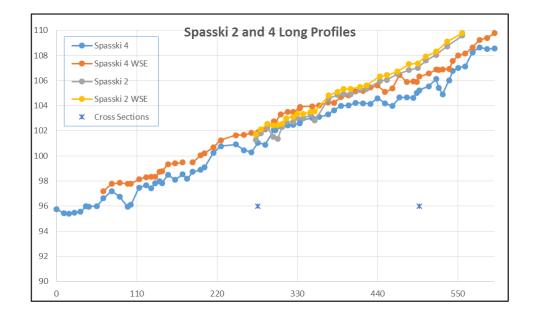
Assessment

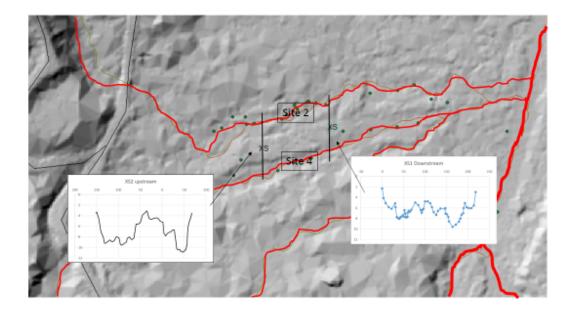
- Proper function condition assessments
 - Qualitative
- Tier II Surveys compared to R10 Habitat Variables
 - Quantitative





Survey and Design



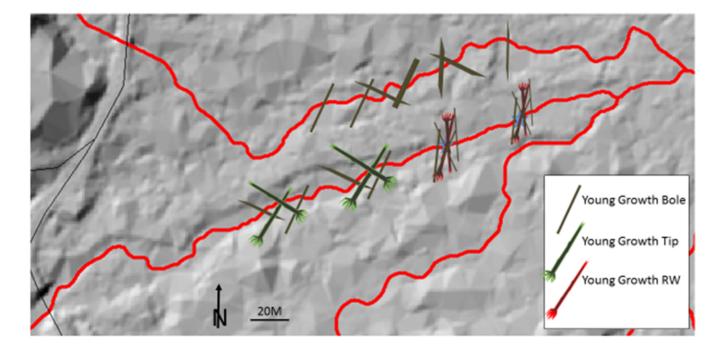


Survey and Design

		Jam Spacing (m)		Jam	Jam Size	
Reach	Basin Area (km²)	mean	CI	mean	CI	
2	1	3	2-4	0.8	0.7-1.0	
4	10	33	21-44	8	7-10	

	Reach 2	Reach 4	MartinBenda	TuckerCaouete
LWD	66	80	30	66
KWD	14	13		30
Pools	4	4		8
Jams		2	3.6	

Туре	Diameter (range)	Length (min)	Number
Bole	10"	25'	19
Tipped	12"	25'	8



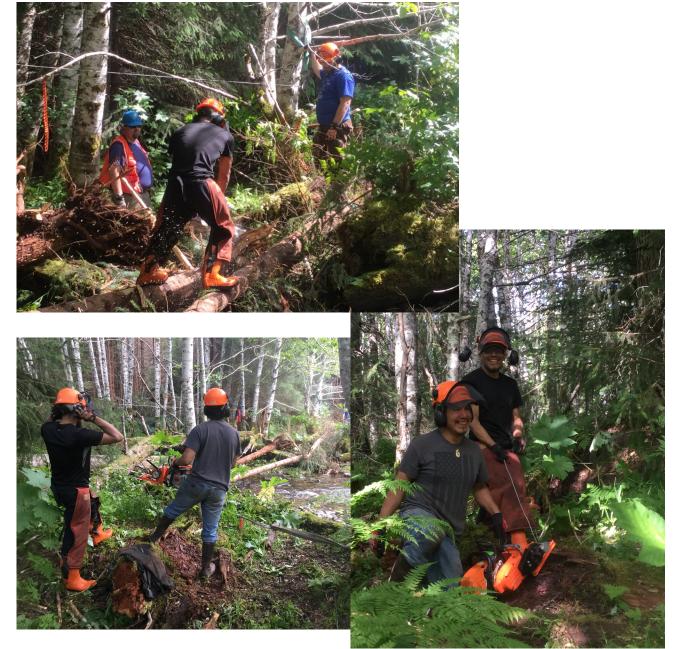
Plan and Materials

Task	Timeframe	Lead
Complete design and project	Winter 2019	lan/KK
plan		
Complete ADFG and COE	Spring 2019	lan/Neil
permitting		
Develop outreach plan	May 2019	lan
(construction cams, go-pros,		
etc)		
Pre-project walkthough with	Early June	lan/KK/Neil
stakeholders and crew		
Trail clearing/ wood sourcing	Mid-June	Conor
and staging		
Confirm vehicles and	Mid-June	lan/Marlene
bunkhouse space		
Instream work Sites 2 and 4	June 24-28	lan/KK/Neil
	2019	
Instream work Site 1	July 1-5	lan/Neil
	2019	
Survey as-built, establish	August 2019	lan/Marlene
photo monitoring points		

Hand Placed LW Equipment List			
Item	Number	Cost	Total
Chainsaw*	2	tbd	
Chainsaw PPE	2	tbd	
Chainsaw parts and accessories		tbd	
Ear Protection, gloves, hardhats	Everyone	tbd	
Lewis Chainsaw Winch (LCW)	1	900.00	900.00
LCW extra cable (150')	2	70.00	140.00
Saw Powerhead for LCW (we use Stihl 441)	1	900.00	900.00
Retainer Pin (Drum Shaft) New Style for LCW	2	5.00	10.00
hardened Dowel Pin for LCW Clutch	2	7.00	14.00
BIO Bar Oil for LCW	2	tbd	
come along hand puller/winch	1	40.00	40.00
Chokers w/ eye	5	20.00	100.00
Large Shackles (to fit Swing Side Snatch Block and LCW)	3	20.00	60.00
Swing Side 4" Snatch Block	2	65.00	130.00
4.5 Ton Snatch Block	1	100.00	100.00
Peavey	2	109.99	219.98
Gas / Bar oil	enough	tbd	
First Aid Kit - Crew size	1	tbd	
Griphoist TU-28 w/100' wire rope	1	1,995.00	1,995.00
Shear Pins for Griphoist TU-28	1	41.60	41.60
Griphoist Replacement Handle	1	147.00	147.00
Campbell Drop Side Snatch Block	3	245.55	736.65
Tractel - 30 FT 7/16" WIRE ROPE WITH HOOK	1	272.62	272.62
Griphoist Wire Rope Reel	1	31.50	31.50
Griphoist Wire Rope Reel	1	37.31	37.31
Lubriplate	5	6.63	33.15
Eye & Eye Nylon Web Sling (Webmaster 1600)	1	28.36	28.36
Eye & Eye Nylon Web Sling (Webmaster 1600)	2	28.74	57.48
Eye & Eye Nylon Web Sling (Webmaster 1600)	1	32.93	32.93
Eye & Eye Nylon Web Sling (Webmaster 1600)	2	18.00	36.00
Snow & Nealley "Our Best" Pulaski	4	89.00	356.00
Round Point Shovel	2	40.65	81.30
Round Point Shovel	2	61.86	123.72
	TOTAL		\$6,624.6

Implementation





Implementation











Video by Ian Johnson Hoonah Indian Association