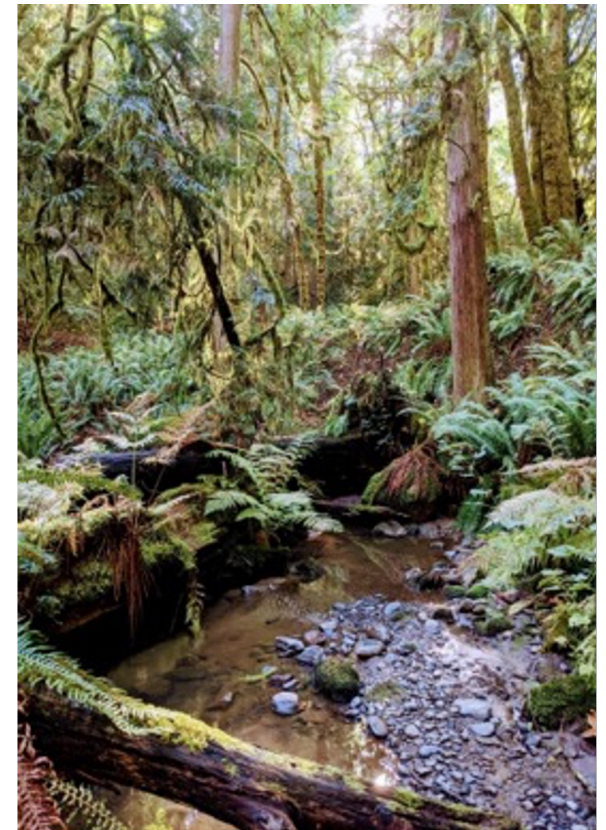
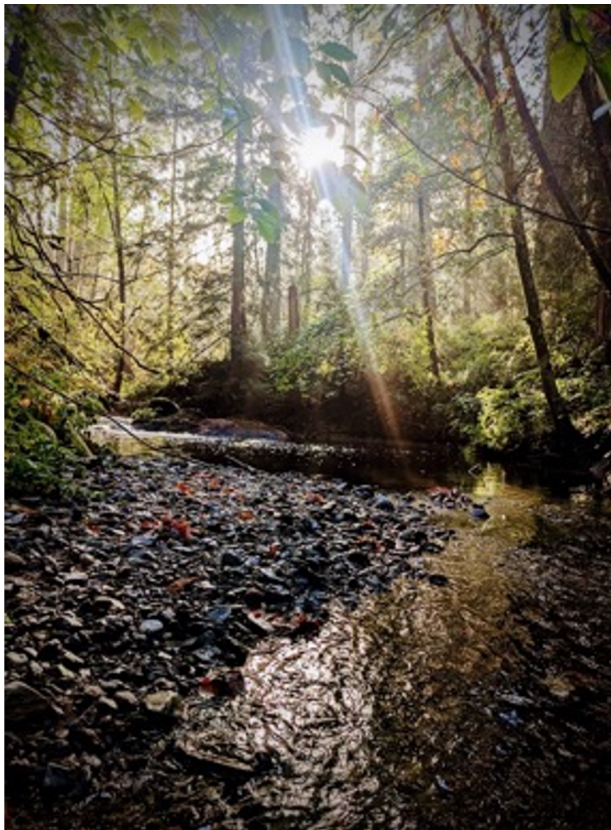


Stream Restoration and Water Quality in Greater Victoria

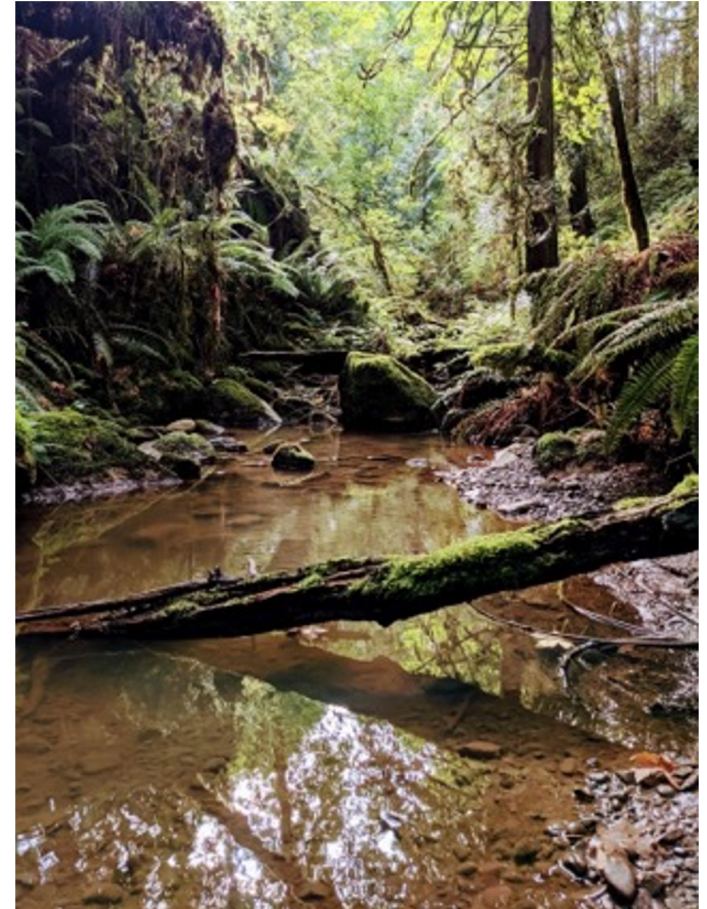
Katrina Adams - Aquatic Biologist

*Streams
&
Peninsula
Shorelines*



Background

- Non-profit, established in 2002
- We help local ecosystems through community stewardship, environmental education, and habitat restoration.
- Over 300 members in Greater Victoria
- ~150 active volunteers



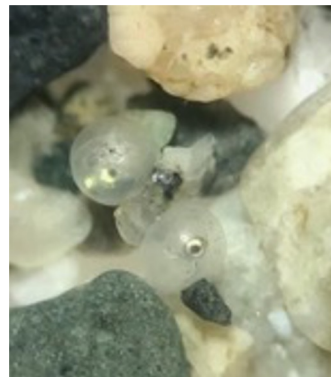
About Peninsula Streams and Shorelines



Restoration



Water quality



Forage fish egg surveys



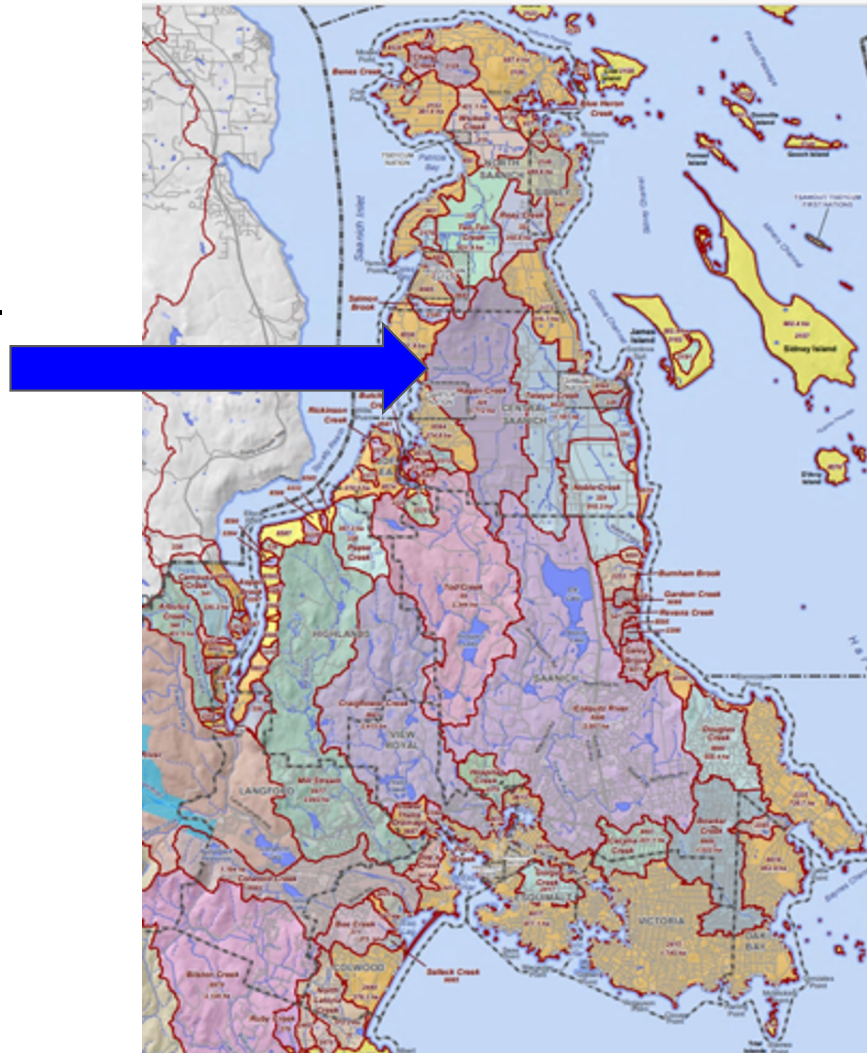
Education

Groups we directly support:

Friends of Chalet Creek
Friends of Shoal Harbour Sanctuary
Sidney Anglers Association (Reay)
Residents of Reay Creek
KENNES (Hagan/Graham Creek)
Watershed Project
Friends of Tod Creek Watershed
Friends of Swan Creek Watershed
Friends of Colquitz River Mainstem
Friends of Bowker Cr. Watershed

Goward Springs Watershed Stewards
Gabo Creek stewards
Friends of Maltby Lake Watershed
Colquitz Coalition (umbrella group)
Beaver Elk Environmental Stewards
(BEES)
Residents of Robert's Bay
Friends of North Saanich Parks
Friends of Millstream Watershed

KENNES (Hagan-
Graham
Watershed)



KENNES (Hagan-Graham) Watershed



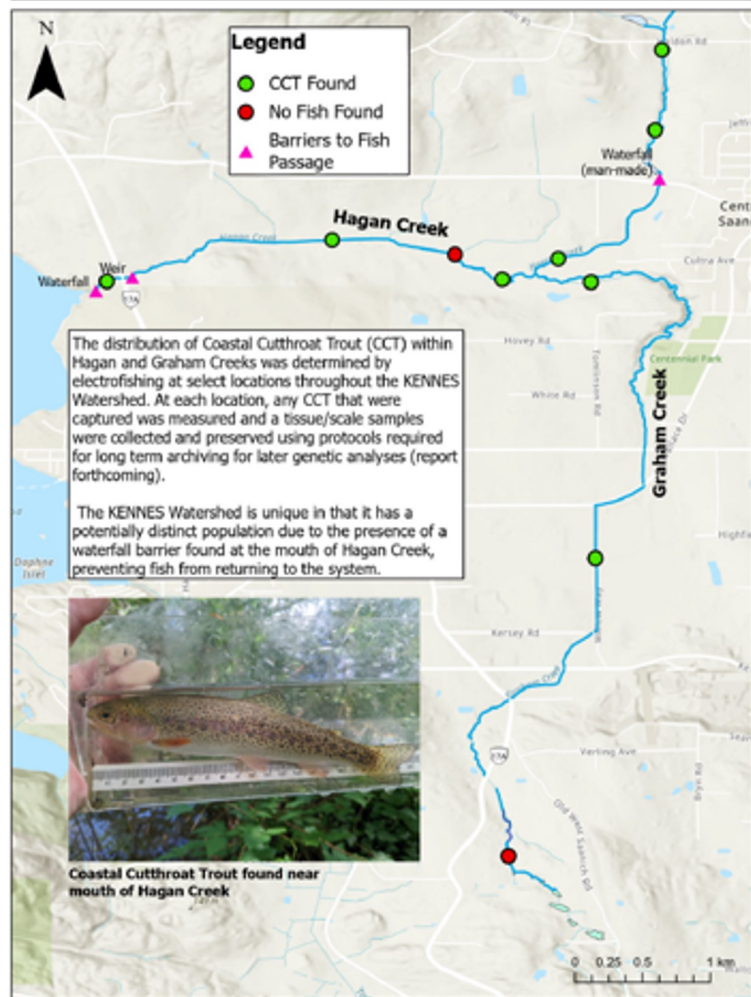
- Habitat assessment
- CCT Distribution within Hagan-Graham Creeks
- Engagement with Tsartlip First Nation
- KENNES Community Stewardship Group

Hagan - Graham Project - CCT Distribution



- 10+ locations spread throughout Hagan and Graham Creeks were electrofished
- Genetic samples were taken and are currently being analyzed

Coastal Cutthroat Trout Distribution and Barriers to Fish Passage within the KENNES Watershed (Hagan and Graham Creeks)



Hagan - Graham Project - Plans for 2023

- Mawuec Restoration - partnership with Tsartlip First Nation
 - Floodplain, mainstem and tributary restoration/enhancement for CCT habitat
 - Riparian enhancement
- Keating Industrial Water Quality Initiative
 - Business outreach and education around stormwater management practices
- Revitalization of the KENNES Stewardship Group
 - In progress right now - new group being formed to restart stewardship activities within the watershed



Millstream Watershed



Millstream Creek Watershed – Assessment & CCT Distribution

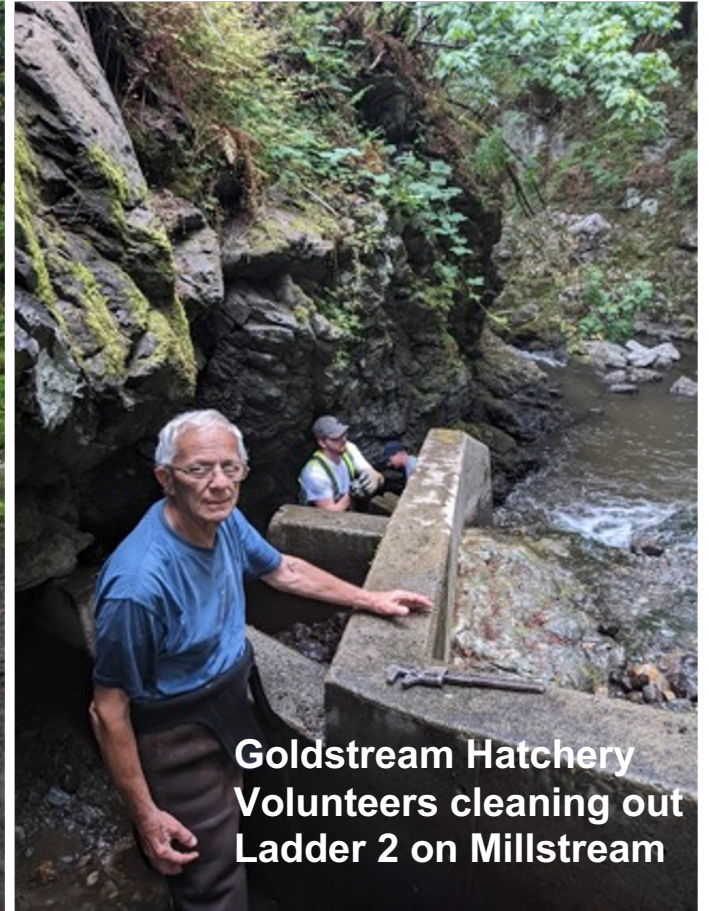


- Millstream has been mapped and assessed for fish habitat suitability - report is forthcoming
- CCT distribution/presence was determined
 - Will be continued this summer

Millstream Creek Watershed – Stewardship



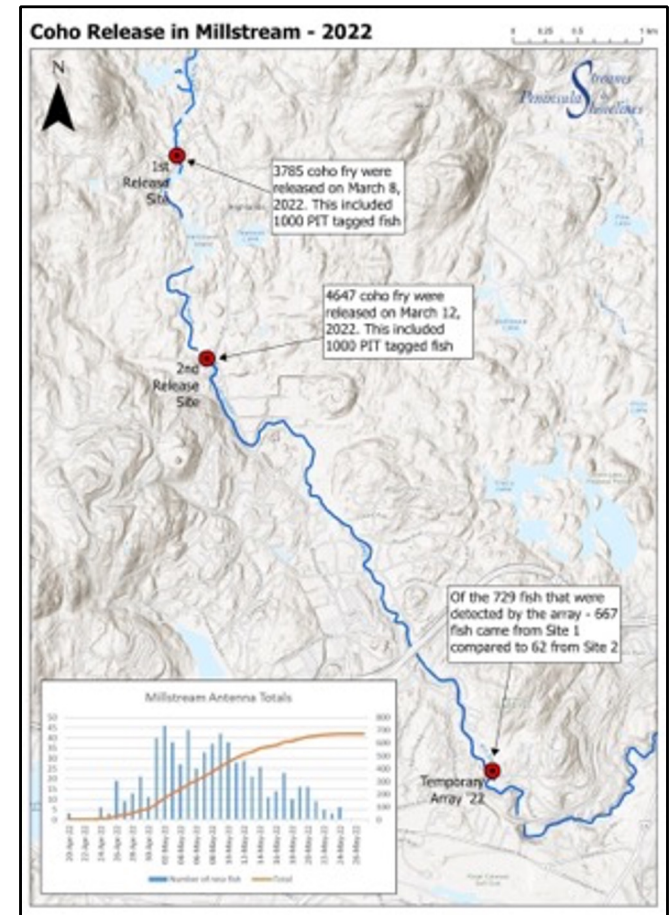
The making of the Friends of Millstream Watershed stewardship group



Goldstream Hatchery
Volunteers cleaning out
Ladder 2 on Millstream

Millstream Creek Watershed - Coho Tracking

- 2022 Program: 2000 PIT Tagged fish released into Millstream, 729 were detected swimming over temporary array
- 2023 Program: Another 2000 PIT tagged fish were released early March
- Permanent array to be installed near Ladder 1 in early May. Will be used to determine salmon survivability, migration timing etc within the Millstream Watershed



Millstream Creek Watershed - Coho Counts

Characteristics or Conditions	Code	Count		Counted & Seen	Seen
		Number	% Total	Number	Number
Precocious (likely Jack)	P	21	12.57%		
Female (Adult)	F	71	42.51%	73	2
Male (Adult)	M	75	44.91%	79	4
Sex unknown	US	0	0.00%		
Sex undecided (under review)	S?				
Adipose fin present (likely recent wild origins)	Y	137	82.04%	141	4
Adipose fin absent (likely recent hatchery origins)	N	23	13.77%		
Adipose fin unseen	UA	7	4.19%	9	2
Adipose fin presence undecided (under review)	A?				
Sum Check: Sex		167	100.00%	173	6
Sum Check: Adipose Fin		167	100.00%	173	6
Dead (not counted)	Coho MORT	3			
Sum Final	Coho	167		168	1

