

2021 Summer Quarter

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St'át'imc Eco-Resources Ltd. Board of Directors

Councilor Chantel Thevarghe
Dean Grant
Naleen Narayan
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Doug Mitchell, and Trevor Dunn make the first transport trip to Cultus Lake Lab

BIG BAR LANDSLIDE EARLY STUART SOCKEYE ENHANCEMENT PROJECT

SER are happy to announce that, in collaboration with DFO, the Upper Fraser Fisheries Alliance, Gitksan Watershed Authorities and Splitrock Environmental, we successfully completed the brood collection program for the Early Stuart Sockeye! A combined effort from the Lillooet Fishwheel, an additional fishwheel crew at the landslide site, and a Lower Fraser pilot study ensured we captured a total of 759 Sockeye who are waiting at Cultus Lake Hatchery ready for spawning in August.

We would like to offer our sincere thanks and appreciation to crew leads, all the fish technicians and drivers, the fishwheel and punt crew, data techs and all the behind-the-scenes support from each organization for their unwavering dedication to this extremely important project.

The fishwheel will continue to operate in the Fraser River until October tagging fish so we can continue to monitor fish passage at the slide site. We hope to have an update on that additional projects success in the fall.

Message from the CEO

Nothing happens unless something is moved. - Albert Einstein

And boy, are we moving!! There are pieces all over the chessboard right now!! We have technicians helping to move salmon from the Fraser River to the Cultus Lake Lab (Hatchery). We are moving and aligning pieces of upcoming projects and those in development. SER has AMAZING employees that are willing to move their schedule and provide flexibility when needed. I have been moving as well, taking part in trips to communities, participating in community meetings, speaking with interested parties about possible business development opportunities, and working with the Board on several planning and governance items.

We are also moving closer to the St'át'imc Eco-Resources Annual General Meeting and Information Session (AGM). The AGM is scheduled for Wednesday, September 15, 2021, from 9 am – noon. It will be held via zoom. This year's meeting is all about you, the Shareholders! Featured agenda items include keynote speaker Dr. Shalene Jobin from University of Alberta, speaking on the topic of Indigenous Governance and Economies, and a presentation regarding the SER financial position, along with a presentation to Shareholders regarding this year's accomplishments and ideas moving forward.

While we like to think that all movement is positive, unfortunately, that is not the case. We would be remiss if we did not acknowledge the devastating losses suffered to date from the wildfires. While wildfires can cleanse the environment, this does not lessen the losses. Our hearts go out to all of those who have been affected by these fires.

Life is like riding a bicycle. To keep your balance, you must keep moving. - Albert Einstein

Keep... moving... forward!!

BENTHOS FEASIBILITY IN THE LOWER BRIDGE RIVER



With the high flows from the Terzaghi dam in recent years, insects and food materials near the bottom of the water column-known as benthos- have not

recovered as fast as expected. SER is putting the final touches on an amended proposal and budget to conduct a literature review and produce options for how this can be improved. The goal is to find an effective method to increase the benthos available to the fish in the Lower Bridge River to ensure they have plenty of nutrition for growth. The mitigation strategies report will be undertaken in late summer and conclude before the end of the year and will be used to develop implementation and monitoring strategies in the years to come.

BRIDGE RIVER TRANSMISSION PROJECT



BC Hydro is looking to build a new transmission line from the Lower Bridge River

to the Kelly Lake which could impact several species in the immediate area. SER will be conducting bird counts and habitat surveys, however with the ongoing threat from fires, this project has been postponed until the area is safe. We do not know right now when we will be able to work in the area without fire risk, however there is still the potential to complete stream surveys and archeological assessment in the Fall if bird surveys are held back until next year.



CAMERA TRAPPING

SER is working with Xa'xtsa, UBC, and FLNRORD to improve the empirical knowledge of the ranges and habitat connectivity for several species of carnivores in the Lower St'át'imc Territory including species of conservation concern like Wolverines and Grizzly Bear. We are currently hiring local Xa'xsta field technicians, with area knowledge to deploy cameras in strategic areas. Field technicians will collect memory cards from these cameras later this year and analyze the photos for presence/absence of target species. The data collected from this project will help us gather information on what areas are being used by who and inform decision makers on the potential impacts of their projects. Contingent on funding, this project has the potential to continue next year.

SER GALLERY



SER field staff L to R: Ronald James, Bailee Phillips, Kyle Krahn, Mercedes Adolph and Georgetta Ned all taking Swiftwater training



Swiftwater training



Christina Shaw, Big Bar Cultus Lake Lab crew member



Kyle Krahn and Fraser Adolph Truck and Transport crew E and DFO crew Brian, and Murray



Becky Riley, First Nations Technical Lead

SHARING VIDEOS

Highlighting the response efforts over the last several months are now live on the DFO's YouTube channel.

- **An Ever-Changing Landscape:**
https://youtu.be/1L8aPxhJD_o
- **Alternative Fish Passage Systems:**
https://youtu.be/u2_w4SqDe5M
- **The Science Behind Monitoring:**
https://youtu.be/2wcX_LeolQo
- **Emergency Salmon Conservation Enhancement:**
<https://youtu.be/l4lUtp4Fv7U>
- **2020 Fish Wheel Operations:**
<https://youtu.be/uPoKHOMlhZo>



Raymond Bob and the fish wheel and punt crew



Madeline John and Clifford Leslie SER Truck and Transport Crew B at Cultus Lake Lab



Raymond Bob Data fishwheel crew member

It was an awesome experience and doing this with a dedicated team. I pray for successful spawn in August for these salmon for future generations. Thanks for letting me be part of the team~ Madeline John



Madeline John and Cliff Leslie transporting live salmon to live tank



Truck and Transport Crew E on their way to Chilliwack



Georgetta Ned and Bailee Phillips Truck and Transport Crew C



Trevor Dunn and Christina Shaw at Cultus Lab

AS WHEN ENVIRONMENTAL SUPPORT SERVICES



Raymond Bob, transporting live salmon into live tank for truck and transport crew.



St'át'imc Eco-Resources Ltd. has been retained to provide ASWHEN Environmental Support for coastal Environmental Field Operations which include the following services Fish Salvage, Fish and aquatic habitat assessment, environmental monitoring, environmental field support, environmental assess support and other

environmental support services as required under our current Blanket contract order. Last year and this year to date, there has been limited time in the field due to Covid restrictions and limited work activity. SER continues to develop capacity with field crews to gain hands on experience through various environmental tasks. SER field crews look forward to more field days as the province plans to re-open from covid restrictions.

AS WHEN ENVIRONMENTAL SUPPORT FOR CAPITAL WORKS

ENVIRONMENTAL MONITORING REPORT	
GENERAL INFORMATION	
Project:	
Owner:	BC Hydro
BC Hydro Environment:	
Environmental Monitor:	
Period Start Date:	
Contractor(s):	

SER has been retained to provide ASWHEN Environmental Support for the Bridge River

system through a successful RFSQ process. SER has supported individual work orders on a when required basis since 2019. The projects we are proud to say we are involved with are:

- GY-0345 Unit 7 and 8 Replacement project, providing EM for construction works at BR.
- GM-0248 Surge Mitigation project, providing EM for basin installations
- GM-0011 BR2 Penstock 2 repainting project, providing EM during repainting.

Doug Mitchell, Environmental Monitor Lead Technician has been monitoring weekly inspection and developing reports for each site visits that provide insight into each project related activities. Doug took the opportunity to obtain various on-line Training that allows him to gain independent access to each work sites. With Environmental Management Plans for each project Doug's EM role can ensure works is met or exceed environmental requirements and fit within the project environmental management system across all phases and activities. Doug's due diligence to inform site works has not gone unnoticed. As he continues to provide EM

service reports and follow up with inspections his continued efforts will ensure appropriate mitigation measures are implanted to protect the environment.

As we continue to provide more environmental monitoring support for these projects and future ASWHEN projects we continue to develop capacity for our field crews.

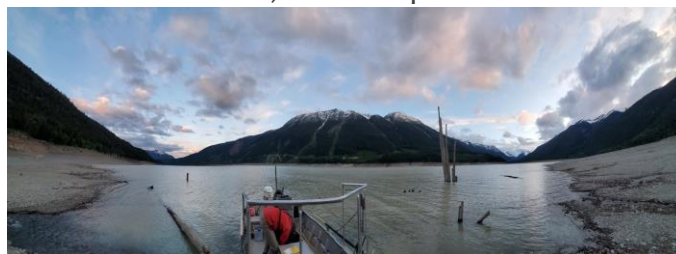
WATER USE PLAN AND MODIFIED OPERATION UPDATES



This summer SER are continuing to work on the Bridge Seton Water Use Plan projects in the St'át'imc Territory. Most of these projects are in their final 10th year in 2021, so as we continue to conduct

field work, we are also planning for the future of these monitoring projects within the Nation. These projects are incredibly important for monitoring fish and wildlife populations and vegetation throughout the watershed in the Nation. A number of the monitoring projects have ended prior to 2021, but we still have lots going on! SER continue to be integral to the following programs, working closely with community groups and businesses as follows:

- BRGMON-1 Lower Bridge River Aquatic Monitoring – A collaboration between SER, Bridge River Indian Band, Coldstream Nature Based Solutions, Jeff Sneep and Limnotek.



Doug's Office view on Downton

WUP MOD UPDATE CONTINUED.

- BRGMON-2 Carpenter Reservoir Riparian Vegetation Monitoring – A collaboration with Splitrock Environmental.
- BRGMON-3 Lower Bridge River Adult Salmon and Steelhead Enumeration – A collaboration between SER and InStream Fisheries Research.
- BRGMON-4 Carpenter Reservoir and Middle Bridge River Fish Habitat and Population Monitoring – A collaboration between SER and InStream Fisheries Research.
- BRGMON-5 Downton Reservoir Riparian Vegetation Monitoring - A collaboration with Splitrock Environmental.
- BRGMON-7 Downton Reservoir Fish Habitat and Population Monitoring – A collaboration between SER and Jeff Sneep.
- BRGMON-8 Seton Lake Resident Fish Habitat and Population Monitoring – A collaboration between SER and Jeff Sneep.
- BRGMON-11A Lower Bridge River Riparian Vegetation Monitoring - A collaboration with Splitrock Environmental.
- BRGMON-11B Lower Bridge River Riverine Wildlife Monitoring – A collaboration between SER, Russ Walton and Ralph Heinrich.

- BRGMON-13 Seton Sockeye Salmon Smolts Monitoring Program – A collaboration between SER and InStream Fisheries Research.
- BRGWORKS-1 Carpenter Reservoir Drawdown Zone Re-Vegetation Program - A collaboration with Splitrock Environmental.

As we move into August, the busy field season is upon us, and we continue to enjoy working with and thank all our field technicians – old and new - for their continued dedication in the field.



Doug's office view Night Shocking on Downton



Doug Mitchell, Fish Angling for BRGMON3

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