

SEHAB update Kevin Ryan June 2023
North Shore, Port Moody, and Maple Ridge
DFO CA Brian Smith (Port Moody, Maple Ridge)
CA Malcolm Wigham (North Shore)

North Shore

Seymour Hatchery

Releases

- Chum - 400,000 + fry released in April comprised of both Seymour and Alouette R stock.
- Coho - 47,000 smolts released by early June
- Coho - 7500 smolts transported to Port Moody Inlet Sea pen for temp holding/feeding
- 13,000 - summer steelhead smolts released June 1st from West Van Labs

Projects/events

- "Gently Down the Seymour" education program in full swing after a 4-year hiatus
- Habitat restoration work conducted in Feb to repair a legacy project.
- 99% completion of educational signage and landscaping project
- SSS website upgrade
- septic storage tank upgrade to begin shortly
- Family Fishing Day event June 18th
- PSSI assessment of our CEDP hatchery back in April/May

North Shore Streamkeepers

Keegan Cassidy projects

NSSK Updates:

1. Lynn Creek – Apex Structure Design – August 2023
 - a. NHC is the consultant
 - b. Main Apex structure + 6 smaller Engineered Log Jams
 - c. 74 logs and 98 boulders
 - d. Fully funded estimated start date August 2023
 - e. Total budget \$262,000

2. Lynn Creek – Arbor Lynn Creek Wetland – TBA 2024/2025
 - a. Not yet designed.
 - b. Reroute Arbor Lynn Creek to run south down escarpment into existing wetland area
 - c. Adding approx. 300M of creek length
 - d. Expand wetland, create rearing pools and spawning channels
 - e. Arbor Lynn Creek to then connect with top end of 2018 Lynn Ephemeral Channel project
 - f. \$80,000 funding available from District of North Van for Hunter Bridge offset
 - g. BCIT Civil Engineer students already visited site with Glen Parker

SEHAB update Kevin Ryan June 2023
North Shore, Port Moody, and Maple Ridge
DFO CA Brian Smith (Port Moody, Maple Ridge)
CA Malcolm Wigham (North Shore)

- h. NSSK to hire consultant for design and begin grant writing
- 3. Lynn Estuary – Kelp Forest – Feb 2024
 - a. NHC Design, Hatfield and KWL Support
 - b. 55 granite boulder clusters (7-10 boulders per) at the very end of Estuary where it meets Burrard inlet
 - c. Elevations of -1.31 to -3.70M
 - d. Neptune Terminals offset project, partnering with NSSK
 - e. Will tie into larger Lynn Estuary legacy project
 - f. Value - \$500K++
- 4. Lynn Estuary – 16 separate projects as identified by Kerr Wood Leidal (KWL) – 2025 and beyond.
 - a. Several grant applications submitted, haven't heard back from all yet.
 - b. BCSRIF declined saying they didn't believe we had the capacity to complete Projects 1 and 2.
 - c. Estimated \$5Million - \$10Million for all 16 projects.
- 5. Mosquito Phase 2 Design – August 2024
 - a. Continuation upstream from Phase 1 – 2020
 - b. 150M of stream, 120 logs and 240 boulders
 - c. 23 Engineered Log Jams
 - d. \$439,250 budget
 - e. 58% funded at present, actively seeking additional funding.

Morten Creek

Morten Creek SEP has gone through that generational (leadership) change again. The wonderful people who have provided over-site for 15+ years are now unable to, new people have taken over the roles and we have another CA. Thank goodness for BMP's and good record keeping :->) So people it IS possible to transition well.

Question any update on
UBC engineers working with Morten Creek to field test a camera that will count fish AND identify them.

Spanish Banks

No updates available

Port Moody

Noons Creek

SEHAB update Kevin Ryan June 2023
North Shore, Port Moody, and Maple Ridge
DFO CA Brian Smith (Port Moody, Maple Ridge)
CA Malcolm Wigham (North Shore)

Fingerling festival May 6th, 2023, big success. 20,000 Chum released into Noons another 10,000 into Schoolhouse South. Approximately 2000 people attended!
Noons water levels already getting low plan is to open Cypress dam mid June.

Mossom Creek hatchery

Releases: 100,000 chum released in early May to Mossom, School House North creeks. 4,000 Mossom coho smolts were transferred to seapen mid May released May 29th. DFO also transferred 40,000 chinook smolts from Chilliwack to seapen. May 2nd Plus another 7,500 coho from Seymour

Community Events:

Open House every Sunday: Average # visitors 40

Bio Blitz June 2-3 we had over 60 guests, students and scientific experts. They went all over the Mossom and Schoolhouse North Watershed and local townsite. Inventory of insects, beetles, birds, bats, moss, plants, gastropods, freshwater fish in Mossom. I-Naturalist used to identify and record all observations. We also completed several beach seines. Baily Environmental assisted and will be providing report comparing results with our BioBlitz in 2017, results will be shared with all interested parties.

Coho fin clipping June 21st at Mossom over 10,000 to clip.

Coho tagging Phase 2

We are in preliminary discussion with DFO community manager about possibility of barging West Van to improve to success ratio of coho smolts.

This tagging project cost \$40,000. UBC in kind was another \$30,000 from UBC.

We may have found additional funding for second study to validate first study before any firm conclusions are made.

Final Results which will be published in scientific journal by Prof Scott Hinch:

Majority of Coho remained in the eastern part of Burrard inlet (Port Moody) for much longer than originally thought. Tag battery life is short (approximately 2 weeks) a majority hung around Port Moody area. High predation in Burrard inlet caused by many issues, pollution, predation, bright lights from terminals (Centerm, Vanterm, Lynnterm), 2nd narrow bird nesting. WE estimate approximately 20% made it to Indian Arm, 2nd Narrows and 10% reported at Lions Gate and beyond

Maple Ridge

Alouette Hatchery (Alco)

Update: Lance

Water shortage on their lake levels already lower than normal, snowpack has all melted.

Chinook Releases: May 19 25,000 into Alouette planning to release 108,000 into Coquitlam River.

Chum Releases: Early May 217,000 into Alouette

SEHAB update Kevin Ryan June 2023
North Shore, Port Moody, and Maple Ridge
DFO CA Brian Smith (Port Moody, Maple Ridge)
CA Malcolm Wigham (North Shore)

Kanaka Bell Irving Hatchery

Update: Ross

Weather continues to be a concern, with very dry spring. They are watching water levels closely. They don't want a repeat of 2015 when the intake almost went dry.

Good By Chum event held in May 500 attended to release 190,000 chum mostly released into Kanaka and some moved to Stony Creek. 30,000 coho released into Kanaka and Burnes Creek in Burnaby.

Kanaka host open house events once per month.

In the fall they were noticing increasing numbers of chinook salmon in Kanaka some quite large at the fence probably Harrison Lake chinook.

SEP community hatcheries still awaiting decision on increased funding from DFO.

Lower Mainland Road Salt project

Invertebrates study being undertaken on many lower mainland creeks as well as juvenile trapping. Results to be released in July once all creeks have reported findings.

Kevin Ryan
June 2023