

## **SEHAB update Kevin Ryan Nov. 2023**

North Shore, Port Moody and Maple Ridge

DFO CA Brian Smith (Port Moody, Maple Ridge)

DFO CA Gillian Steele (North Shore)

### **North Shore** (CA Gillian Steele)

#### **Seymour Hatchery**

Seymour Hatchery tried seine in lower Seymour to catch chum with no success, due to low returns.

1. Any issues that are affecting groups and their projects that are directly related to DFO.

Low water, poor chum returns- but DFO has allowed, and helped us with egg takes from the Allouette system DFO has secured 300,000 chum eggs from Alouette

2. Any positive things that are directly related to DFO.

We have a new CA (Gillian Steele). She is well known in the community, and is immersing herself into her new position in a very positive, breathe of fresh air manner. We can count on her for information from DFO, and she is always there attending meetings, and lending a helping hand  
DFO and MV are building more off channel spawning and rearing area in the Junior Creek complex on the Seymour The DFO Engineering group is keen, and there when we need them

3. Any things coming up that DFO should know about

We have our Engineering team looking at the canyon where the rockslide occurred, to determine if the lip of the rockslide can be removed to allow salmon passage during the low water situations that we have been experiencing during the early spawning returns.

4. Any issues that are affecting groups and their projects that are related to other agencies.

We are working very well with the senior level of government, and the Metro Van team, however we never hear from or see the Provincial government

5. A general update of how what has been happening with your society that you would like to share.

We are presently working with our Engineering team to build a long term plan for the estuary

## North Shore Streamkeepers

### 1. Lynn Creek – Side Channel completed – August 2023

- a. Northwest Hydraulic Consultants design
- b. Main Apex structure + 6 smaller Engineered Log Jams
- c. 120 logs from Chilliwack and 98 boulders N. Van all donated
- d. Prof. Dave Harper and students from BCIT did all cabling attaching logs to boulders
- e. Total cost \$262,000

Planned projects:

#### Lynn Creek – Arborlynn Creek Wetland – TBA 2024/2025

- a. Not yet designed
- b. Reroute Arborlynn 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. Arborlynn 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
- h. NSSK to hire consultant for design and begin grant writing

### 2. 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. 50% funded at present, **actively seeking additional funding**

## Morten Creek

Facility painted. Annual target 30,000 chum

## **Port Moody** (CA Brian Smith)

### **Noons Creek**

#### **Community Events:**

Open house every Saturday

Noons struggled with very low water levels - Cypress dam opened in August  
Healthy return of hatchery coho spawners.

### **Mossom Creek hatchery**

#### **Community Events:**

**Open House every Sunday:** Average # visitors 30-40

**Bio Blitz June 2-3** 60 guests, students and scientific experts. Results to be posted on social media and on Mossom web site [www.mossomcreek.org](http://www.mossomcreek.org). Overall the health of the watershed looks very good.

#### **Production:**

Received 50,000 chum eggs from Alouette Hatchery

Received 90,000 pink eyed eggs from Chilliwack

Sunday Nov 5<sup>th</sup> volunteer walked Mossom spotted 58 coho, 118 chum CA Brian advised will be leading a group into creek this week to secure coho for Mossom. Will raise approx 12,000 coho. If we can't secure from Mossom will get eggs from Noons.

#### **Coho tagging Phase 2**

Final Results of our tagging pending publishing in scientific journal by Prof Scott Hinch: Majority of Coho remained in the eastern part of Burrard inlet (Port Moody) longer than originally thought. High loss of coho released into Burrard inlet caused by many issues, pollution, predation, bright lights from terminals (Centerm, Vanterm, Lynnterm), 2<sup>nd</sup> narrow bird nesting. We estimate approx 20% made it to Indian Arm, 2<sup>nd</sup> Narrows, and 10% reported at Lions Gate and beyond.

We are in working on a plan with DFO community advisor Brian Smith about barging or towing a seapen with Mossom coho smolts to a spot further west in Burrard Inlet to improve to release survival.

We have requested DFO permission for pit tagging 4000 coho smolts, working with Zachary Sherker a UBC PHD student (part of Prof. Scott Hinch's team), to build a radio receiver in Mossom to collect return data.

## Maple Ridge

### **Alouette River Management Hatchery (ALLCO)(ARMS)**

Arrivals late this year. As of Nov 1<sup>st</sup> early coho over 400, chum on target for 450,000 supplying both Seymour and Mossom. Aprox. 125 Chinook identified so far.

### **Kanaka Creek (KEEPS) - Bell Irving Hatchery**

**Community event:** Sunday Nov 5<sup>th</sup> just had public egg take event with over 200 visitors.

**Producton:** Everything on target. Normal returns of Chum and Coho so far.

### **Seymour and Mossom chum situation**

#### **DFO Stock Assessment / production planning**

We were advised that our chum numbers would be significantly reduced based on last year's chum fisheries closure. Mossom was not prepared to secure eggs from their watershed. A good deal of work and improvements will be required to allow safe capture of returning salmon without significant damage to wild reeds. Seymour will require significant work to this river to enable capture of returning chum.

Very low returns up till end of October necessitated both hatcheries getting chum eggs from Alouette (as we previously did).

**Suggestion that in future DFO hold off making these decisions and directions till historical data is confirmed over a few years.**

### **General Comment from all hatcheries and streamkeepers:**

SEP community hatcheries appreciate increased funding from DFO through PSSI. However the concern this money is short term till PSSI runs out and what then?

Kevin Ryan  
Nov 2023