

# **West Vancouver Streamkeepers Society Work Plan 2014**

## **Introduction**

The Streams/Creeks are listed from west to east. The names of the Creek Coordinators are included.

### **a) Ongoing Tasks for all Creeks**

- Survey for emerging fry in each creek in April and May.
- Survey for spawning salmon each fall - September to December.
- Keep the creek mouths free of logs to allow salmon access.

b) **New Projects** for the year and carry over projects from the previous year will be prioritized as A, B or C.

## **Larson Creek** - Marshall Bauman, Bruce McArthur, Elizabeth Hardy

**Species** - Coho, Chum

### **New Projects**

A . Mouth & lower reaches . Design and coordinate a plan to improve access for returning adult salmon and to improve spawning and rearing habitat in the lower section of the creek. There is \$60,000 available from the Kiewit Restoration Fund being held by the DWV.

A - Monitor flow and water quality into the rearing pond adjacent to Marine Drive.

B - Work with the West Vancouver Shoreline Preservation Society to determine feasibility, design and cost of an improved estuary that would allow salmon to enter creek at medium and higher tides. This project will be added to the Five Year Plan.

B- Work with DWV with their plan to gain Audubon certification for Gleneagles Golf course by improving salmon rearing habitat on the golf course.

## **Nelson Creek** - Elizabeth Hardy

**Species** - Coho, Chum

### **New projects**

A . Consider the impact on returning adult salmon during the period of dredging at the mouth in Thunderbird Marina (Nov. and Dec. 2013). Work with DFO and DWV to amend the DFO approval process to avoid work windows when adult salmon are returning in the fall and when smolts are departing the creek for the ocean in the spring.

A . Research and design a plan to improve access and habitat at creek mouth area at Fishermans Cove for both returning salmon and outgoing smolts (Five Year Plan).

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## **Eagle Creek** - Elizabeth Hardy

**Species:** Coho, Chum

### **New Projects**

A . Stay involved in the DWV's plan to replace, remove or renovate the deteriorating culvert near the mouth of the creek. Ensure that habitat improvement immediately upstream and downstream of the culvert are included in the plan.

## **Wood Creek** - Elizabeth Hardy

**Species:** Coho, Chum

### **Ongoing Tasks:**

- Monitor returning adult salmon in Parc Verdun to assess the effectiveness of new culvert baffles.

### **New Projects**

A - Investigate alterations to the natural wetlands to open access to salmon and improve the spawning and rearing habitat in Parc Verdun.

## **Caufeild Creek** - Celia Utley

**Species:** Coho

### **New Projects**

B . Work toward having the remaining concrete obstruction removed and improving the habitat downstream of this obstruction.

B - Determine the opportunity for additional salmon habitat.

## **Dogwood Creek** - Ray Bradbury

**Species:** Coho

### **Ongoing Tasks:**

- Improve salmon habitat in the lower section of the creek.

## **Willow and Claymore Creeks** - Celia Utley

**Species:** Coho

### **New Projects**

A - Willow Creek culvert at the mouth is 3/4 full of sediment preventing spawning salmon passage. Work with DWV to clean culvert and blockage areas downstream.

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A - DWV to review and prepare a salmon friendly solution to Claymore Creek flooding. Native planting is required along Ross Crescent to provide shade and protective cover.

### **Cypress Creek** . Noel Murphy, Celia Utley

**Species:** Coho, Chum, Pink

#### **Ongoing Tasks:**

- Monitor for returning salmon starting in August (pinks), including upstream of the DFO CAER laboratory weir to confirm the effectiveness of the fish ladder to assist pink salmon passage.
- Streamkeepers will install the fish ladder by mid-August and remove it in the early fall before the heavy rain period.

#### **New Projects**

- B . Five Year Plan - Investigate ways to reduce channelling in the lower reaches and to improve spawning and rearing habitat.
- Explore the possibility of re-locating the fish ladder to the east side of the creek where less debris and rocks move through the creek that present a risk of damage in the present location. This would require directing a certain water flow to the new location and installing a new frame for securing the fish ladder.

### **Pipe, Westmount, Cave and Turner Creeks** - Hugh Hamilton, Sigrid Bailey

**Species:** Coho

### **Rodgers Creek** - Hugh Hamilton, Sigrid Bailey

**Species:** Coho, Chum

#### **Ongoing Tasks**

- Monitor progress of the BPP Rodgers Creek Upper Lands development.
- Remove rocks, gravel, etc. from the Marine Drive fish ladder in the late summer.
- Coho fry trapping above and below Marine Drive in August/September 2014.

#### **New Projects**

A - Monitor the success of the proposed McDonald Creek estuary project and work with the W.V. Shoreline Preservation Society and DWV to determine if a similar design would eliminate the braided foreshore estuary and therefore improve stream access at lower tides for returning salmon.

A - Improve efficiency of the baffles below Bellevue Avenue.

### **McDonald Creek** - Jim Torry, Mike Akerly, Dave Martin

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**Species:** Coho, Chum

## **Ongoing Tasks:**

- Monitor and clean the two fish ladders in lower Memorial Park.
- Continue with the teams cleaning the intake pipes for Hay and Memorial Park rearing ponds.
- Monitor and report on fry in both ponds.
- Monitor the diversion timbers on the north side of Fulton Avenue, adjacent to the trash rack, and above the Highway at the top of 21<sup>st</sup> Street in the spring and fall.

## **New Projects**

A . The Recreational Fisheries Conservation Partnership Program application (\$60,400) was submitted in late 2013 for the McDonald Creek Estuary Improvement Project.

- WVSS to raise the balance of the project funds (\$64,600).
- WVSS to coordinate the Estuary project with DWV and subcontractors. John Barker, Bill McAllister and Dave Reid will lead this project.

B - Initial study to determine feasibility and cost to naturalize the stream from the railway bridge to the mouth.

A . Improve the water entry point for the upstream fish ladder in Memorial Park.

A - Redesign the Hay Park intake pipe to minimize gravel build-up.

A . Replace the fish ladder under Fulton Avenue.

B . Determine if Sinclair Street dams will obstruct Coho passage upstream.

B - The weir just above Inglewood at Hay Park is impassable. Determine the feasibility and cost of naturalizing this section.

A . Monitor the construction of the replacement footbridge at the north end of Hay Park in January 2014 to ensure protection of the rearing pond intake pipe that is located under this bridge.

## **Lawson Creek** - Peter Gaskill, John Barker

**Species:** Coho, Chum

## **Ongoing Tasks:**

- Ensure that the entire system of baffles and fish ladders are clear of debris. Most of this is underground and requires inspection (DWV) by mid-September.
- Monitor the mouth of Lawson Creek during Chum spawning period to relocate chum upstream to the south side of Fulton Avenue.

## **New Projects**

A - North side of Fulton Avenue - initial study to determine feasibility and cost to either remove the weir or install a fish ladder.

A . Determine necessary revisions to Legion fish ladder to improve salmon passage in lower flow conditions.

## **Brothers Creek** - Sherry Parrott, Leslie Pomeroy, Lauren Hornor

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**Species:** Coho, Chum, Chinook, Pink

## **Macbeth Creek** - Hugh Hamilton

**Species:** Coho, Chum

**Hadden Creek** - Jamie Robb . Upper Hadden, Greg Harder . Lower Hadden

**Species:** Coho, Chum, Pink

### **New Projects**

Three species of salmon are now using habitat above Stevens Drive. Work towards creating a fish passage solution past Hadden Drive which will require a major culvert upgrade, fish ladder(s) and baffles for the culvert.

## **Nelson Creek Hatchery** . Elizabeth Hardy

Volunteers will produce healthy chum and coho for release in creeks across West Vancouver. Salmon fry release events and salmon egg takes will be organized in the spring and fall. Continue to work with the municipality to improve water delivery system at the hatchery.

## **Yellow Fish/Creek Road Side Signs** . Jim Torry

Continue the program to install creek awareness signs at road crossings. There will be approximately 10 yellow fish road signs installed in 2014.

In addition, more small fish signs (blue background with yellow fish) will be installed at footbridges that cross creeks in public spaces.

## **DWV Invasive Plant Species Strategy Working Group**

The Working Group includes Streamkeepers Bill McAllister, Hugh Hamilton, Michael Evison and District Councillor Nora Gambioli

The 8 person committee will submit a report to the DWV on or about March 2014 which will address, among other things, the following:

- a) Recommending how to deal with two of the invasive species most affecting our streams - Giant Hogweed and Japanese Knotweed and other knotweed species.
- b) Laws and by-laws affecting the removal of these invasive plants.
- c) GPS mapping of invasive species.

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d) Volunteer involvement and training.

Streamkeepers will assist the DWV by mapping these two invasive plants on Brothers Creek in the spring of 2014.

### **Storm Drain Marking Program** . Sherry Parrott

In the spring of 2014 we are scheduled to work with West Bay and Pauline Johnson Elementary Schools and in the fall Caulfeild and St. Anthony\$.

Submitted for Board approval  
Dave Reid . Coordinator, Work Plan  
January 14, 2014