



## Work Plan 2017

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### Larson Creek Estuary Enhancement

The project is now focussed only on enhancing the estuary and preventing logs from blocking access to the creek, and excludes work to improve the upper beach. Designed by Balanced Environmental, the project will see boulders placed to protect the stream banks at the entry point into the ocean and provide structure through the upper intertidal zone to maintain a defined creek channel. Work will be undertaken in conjunction with BC Hydro's power line upgrade through the intertidal area to the east of the creek.

Further work in the lower Larson Bay Park area will be considered, such as a rearing pond or other stream enhancements, when results of the estuary enhancement are known.

Status: Awaiting confirmation of funding applications. Planning meeting to be held with the District in January.

- Coordinators: Rich Ketchen & Elizabeth Hardy
- Timeline: Construction in May/June in conjunction with BC Hydro work
- Budget: \$33,000 to \$50,000, depending on District requirements

### Larson Creek Rearing Pond

Investigate ways to reduce sediment capture in the Marine Drive rearing pond.

- Coordinator: Elizabeth Hardy
- Timeline and budget TBD

### Nelson Creek Estuary

Collaborate with the District to develop a concept plan in an effort to improve fish passage at the creek mouth.

- Coordinator: Bill McAllister, with Rich Ketchen, Elizabeth Hardy and Dave Reid
- Timeline: Preliminary feasibility in 2017, project start-up possible in 2018
- Budget: \$5,000 to \$10,000 for assessment/scoping study, possibly funded by District. Estuary improvement funding TBD

### Eagle Creek near the mouth

District working with two residential property owners near the creek mouth to upgrade or replace the damaged culvert running under the driveways of these properties. The project is expected to improve fish passage. Status: Engineering report completed by KWL.

Awaiting the District's decision on how to proceed.

- Coordinator: Elizabeth Hardy, with John Barker
- Timeline: TBD
- Budget: Nil

### McDonald Creek at Fulton Avenue

Continue to monitor the effectiveness of modifications made in 2015 to improve fish passage through the culvert under Fulton Avenue and explore other modifications as needed.

- Coordinator: Mike Akerly, Dave Martin and Bill McAllister
- Timeline: TBD
- Budget: TBD

### McDonald Creek near Sinclair Street

Assess the limitation to salmon and trout migration caused by a dam built across the full width of McDonald Creek many years ago. The dam is notched but still may obstruct returning adult salmon. An environmental consultant will be retained to provide an initial assessment and possible solutions. Any work requires cooperation of the property owner.

- Coordinator: Bill McAllister and Dave Martin
- Timeline: TBD
- Budget: TBD

### McDonald Creek at Inglewood Ave

Assess the feasibility of adding a fishway over the concrete sill on the north side of Inglewood. Status: Preliminary

- Coordinator: Bill McAllister
- Timeline: TBD
- Budget: TBD

### Lawson Creek near the mouth

The proposal to naturalize the lowest section of Lawson Creek, below Argyle Avenue, involves diverting creek water through the small park to the west of the proposed Navy Jack Nature Centre. This project is one component of the District's plans to revitalize the Ambleside waterfront. Fisheries and Oceans Canada has provided a concept design for the new creek path.

Through the fall of 2016, a test hole completed in late summer allowed us to analyze water salinity, flow and levels in the park. Status: A report from the environment consultant is expected in early 2017 on the suitability of the site for this proposed habitat enhancement. If favourable, we will move to the more detailed design phase.

Coordinator: John Barker, with Bill McAllister, Rich Ketchen, Liz Leduc and Bill Chapman

- Timeline: TBD
- Budget: TBD

### Lawson Creek fish ladder

A storm debris barrier (grizzly) may be necessary subject to assessment by CREUS Engineering and if required would be installed upstream of the fish ladder

- Coordinator: Bill McAllister

- Timeline: Summer 2017
- Budget: Up to approximately \$20,000, any additional cost covered by the District

### West Brothers Creek at Wildwood Court

To maintain adequate year-round flow in West Brothers Creek, a more permanent solution may be required to limit flow into the diversion culvert under the Upper Levels Hwy. Status: District considering a solution.

- Coordinator: John Barker
- Timeline: Mid-2017
- Budget: Nil, funded by the District

### Hadden Creek above Hadden Drive

Work in collaboration with Capilano Golf and Country Club to allow passage of adult salmon into and through the golf course. The work plan involves removing culverts and naturalizing Hadden Creek near two ponds on the golf course. Approximately half the estimated funds needed have been raised.

- Coordinator: John Barker, with Bill McAllister and Rich Ketchen
- Timeline: Mid-2017
- Budget: Approximately \$400,000, to be funded by the club and funds raised by Streamkeepers

### Herring Spawn Enhancement

In an effort to improve Pacific herring stocks, we have hung 12 mesh nets from docks at the West Vancouver Yacht Club and Thunderbird Marina in Fisherman's Cove. The concept has proven effective in Squamish and False Creek, with each net capable of supporting an estimated 500,000 herring eggs.

The nets will be monitored weekly during spawning season and removed after the eggs hatch. If successful, the project will be expanded for the 2018 spawning season.

- Coordinator: Keith Pelletier
- Timeline: January to April
- Budget: \$800-900, marinas have committed to contributing to the cost

### Integrated Stormwater Management Plan

Continue to provide input to the District and its consulting engineers on protecting and enhancing fish and wildlife habitat in the Brothers, Hadden and Vinson Creek watersheds. Two meetings held in 2016. Final submission due in spring 2017.

New stream projects may be recommended from the review of these watersheds by the consulting team.

- Coordinator: Bill McAllister, with Don Harrison, Elizabeth Hardy, Rich Ketchen and John Barker
- Timeline: TBD
- Budget: Nil