

## Summary – Recommendations and Next Steps

This document provides a summary of the recommended stewardship efforts identified in the report '[Knowing Our Streams: A review of knowledge and stewardship programs of fish-bearing streams within the Átl'ka7tsem/Howe Sound UNESCO Biosphere Region](#)'. The report carried out a gap analysis of stewardship activities on priority freshwater streams in the Átl'ka7tsem/Howe Sound UNESCO Biosphere Region.

Recommendations are organised by Marine Unit and general stewardship activity type. More details, including ongoing and past activities as well as the rationale behind the recommendations can be found in the full report.

### Stewardship Activity Details

For ease of legibility, proposed recommendations have been grouped under the following general stewardship activity types:

#### Stream Mapping

- For streams missing or with no data present in the Freshwater Atlas

#### Baseline Data Collection

- Monitoring of creeks that have not been monitored in recent past
- Species specific use of a system
- Fish presence
- General baseline data collection for systems that do not have any information
- Salmonid spawner surveys
- Addition of Traditional Ecological Knowledge and local ecological knowledge
- Water quality
- Temperature logging

#### Assessment

- Assessment of fish passage and effect of both human and natural barriers to fish movement

- Habitat assessment – level 1 and for restoration purposes
- Spawning habitat assessment

### Restoration

- Fish passage restoration: Culvert replacement, log and boulder jam removal, fish ladder building and replacement
- Drought mitigation
- Riparian vegetation enhancement

### Monitoring

- Salmon presence monitoring
- Spawning habitat monitoring (dryness)
- Forestry impacts on streams

## 1. Marine Unit 1

### 1.1 Stream Mapping

The following streams have no data present in the Freshwater Atlas but are actively monitored by the Squamish River Watershed Society and Squamish Streamkeepers

- Thunderbird Creek
- W Meighan & E Meighan Creek
- Horse Creek
- Brackendale/Cottonwood Creek
- Brennan Spawning Channels
- Tiampo Creek/Spawning Channels
- Newport Creek
- Magnolia Creek
- Harris Slough
- Tenderfoot Creek

### 1.2 Monitoring – Spawning Habitat

- Tiampo Spawning channel

### 1.3 Restoration - Drought Mitigation

- Swift Creek

### 1.4 Baseline Data Collection

Focused on urban watercourses that have not been monitored in recent years and require information on their current state

- Brohm Creek
- Dryden Creek
- Harris Slough
- North & South Mamquam River
- Stawamus River
- Little Stawamus River
- Magnolia Creek

Focused on salmonid populations

- Ashlu Creek

### 1.5 Assessment - Habitat & Fish Passage (Level 1 Assessment)

- Cheekye River

## 2. Marine Unit 2

### 2.1 Baseline Data Collection

#### 2.1.1 General Baseline Data Collection

- Downing Creek
- Phyllis Creek
- McNab Creek
- Smaller creeks surrounding Porteau Cove

#### 2.1.2 Temperature Logging

This involves both restarting and expanding a temperature logging project started by the Squamish River Watershed Society and Lake Trail Environmental

- Potlatch Creek

- McNab Creek
- Porteau Cove
- Furry Creek
- Loggers Creek
- Deeks Creek
- Phyllis Creek
- Ellesmere Creek

## 2.2 Assessment - Fish Passage

- McNab Creek
- Potlatch Creek

## 3. Marine Unit 3

### 3.1 Baseline Data Collection

The report identified an overall need for baseline data on fish presence in streams on the Sunshine Coast, including:

#### 3.1.1 Salmonid Spawner Surveys

- Continue Salmonid spawner survey activities conducted by the Sunshine Coast Streamkeepers Society and add additional streams to these surveys (recommended additional streams are bolded):
  - **Twin Creek**
  - **Bear Creek**
  - **Soames Creek**
  - **McNair Creek**
  - **Rainy River**
  - **Mohawk Creek**
  - Gibson Creek
  - Ouillet Creek

#### 3.1.2 Addition of Traditional Ecological Knowledge and local ecological knowledge

- Extend the historical baseline on fish populations by incorporating Traditional Ecological Knowledge and local ecological knowledge

### 3.1.3 Temperature Logging

- Adding temperature loggers to outlying creeks

## 3.2 Monitoring - Forestry Impacts on Streams

- Dakota Creek
- Rainy Creek

## 3.3 Restoration - Fish Passage

- Map and replace old and non-functional culverts

# 4. Marine Unit 6

## 4.1 Baseline Data Collection

- Larson Creek (some data has been collected for this stream, but it would benefit from re-assessment)

## 4.2 Assessment - Habitat

- Harvey Creek

# 5. Bowen Island

## 5.1 Baseline Data Collection

There is need to increase baseline data on fish presence in all streams to demonstrate the value of the streams and help properly inform decision making processes

- Terminal Creek – increase surveys to create a comprehensive baseline on spawning salmon returns
- Josephine Creek
- Lee Creek

## 5.2 Restoration - Riparian Vegetation Enhancement

- Killarney Creek
- Terminal Creek
- Davies Creek
- Grafton Creek

## 5.3 Monitoring - Salmon Presence

- Lee Creek

# 6. Gambier Island

## 6.1 Assessment

### 6.1.1 Fish Presence

- Grennon Creek

### 6.1.2 Fish Passage

- Grennon Creek

### 6.1.3 Spawning Habitat

- Mannion Creek

## 6.2 Restoration

### 6.2.1 Fish Passage

- Grennon Creek

### 6.2.2 Riparian Vegetation Enhancement

- Grennon Creek

## 6.3 Monitoring - Forestry Impacts on Streams

- Whispering Creek
- Mannion Creek