Foreshore Integrated Management Planning on Francois Lake

Building Community Resilience through Collaborative Foreshore Assessments



Living Lakes Canada and FIMP

Foreshore Integrated Management Planning Methods

Foreshore Inventory and Mapping
Foreshore Habitat Sensitivity Index
Foreshore Development Guide

Prepared For: Living Lakes Canada

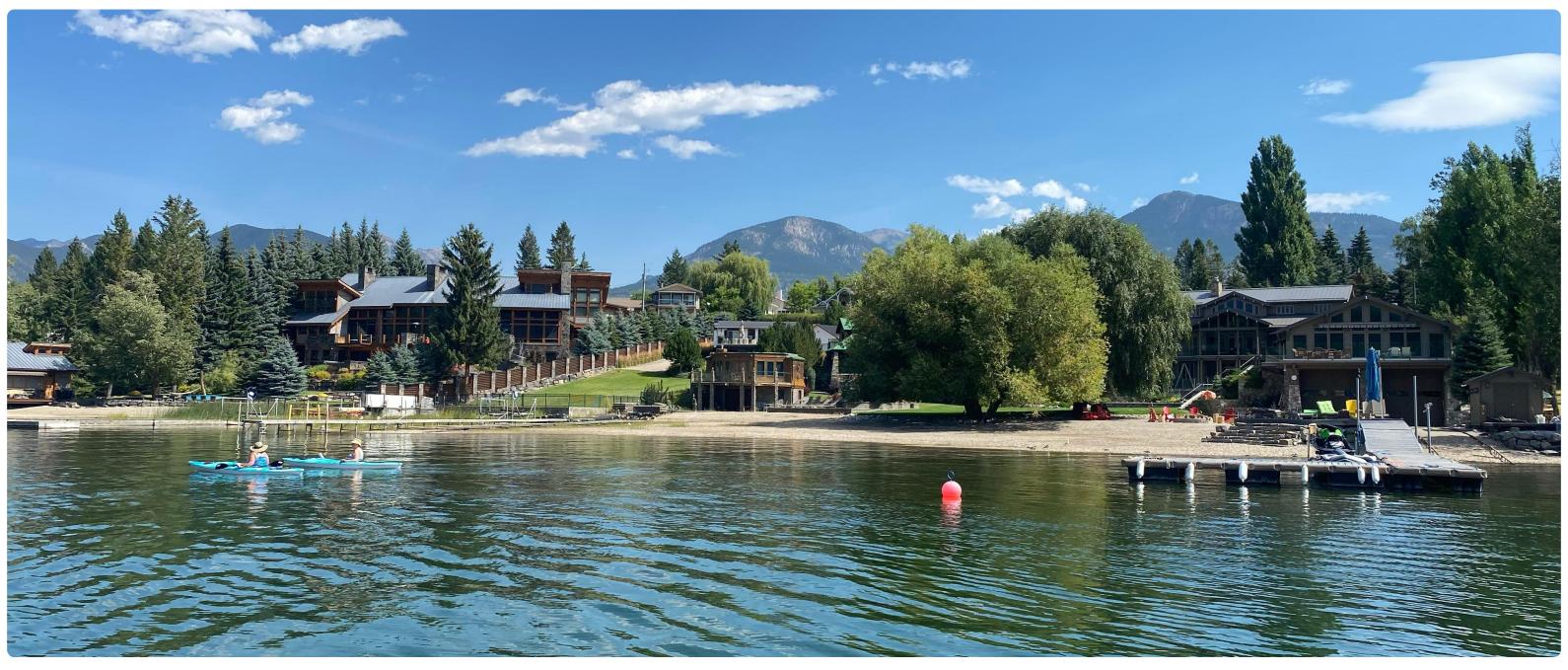
April 2021





Foreshore Integrated Management Planning

Maps shoreline habitats, assesses habitat value and establishes Shoreline Development Guidelines to conserve ecosystems, support climate resiliency and protect species of conservation concern.



Foreshore Integrated Management Planning

FIMP study area: lake littoral zone to 50m upland of the High Water Mark



1) Foreshore Inventory and Mapping (FIM)

Delineates, inventories, and maps lake foreshore values.

2) Foreshore Habitat Sensitivity Index (FHSI)

Describes the existing habitat value and sensitivity, based on the 5 ecological ranks (very low, low, moderate, high, very high), to urban development activities.

3) Foreshore Development Guidelines (FDG)

Summarizes the analysis and provides recommendations for development guidelines and Best Management Practices for decision makers and Rightsholders.

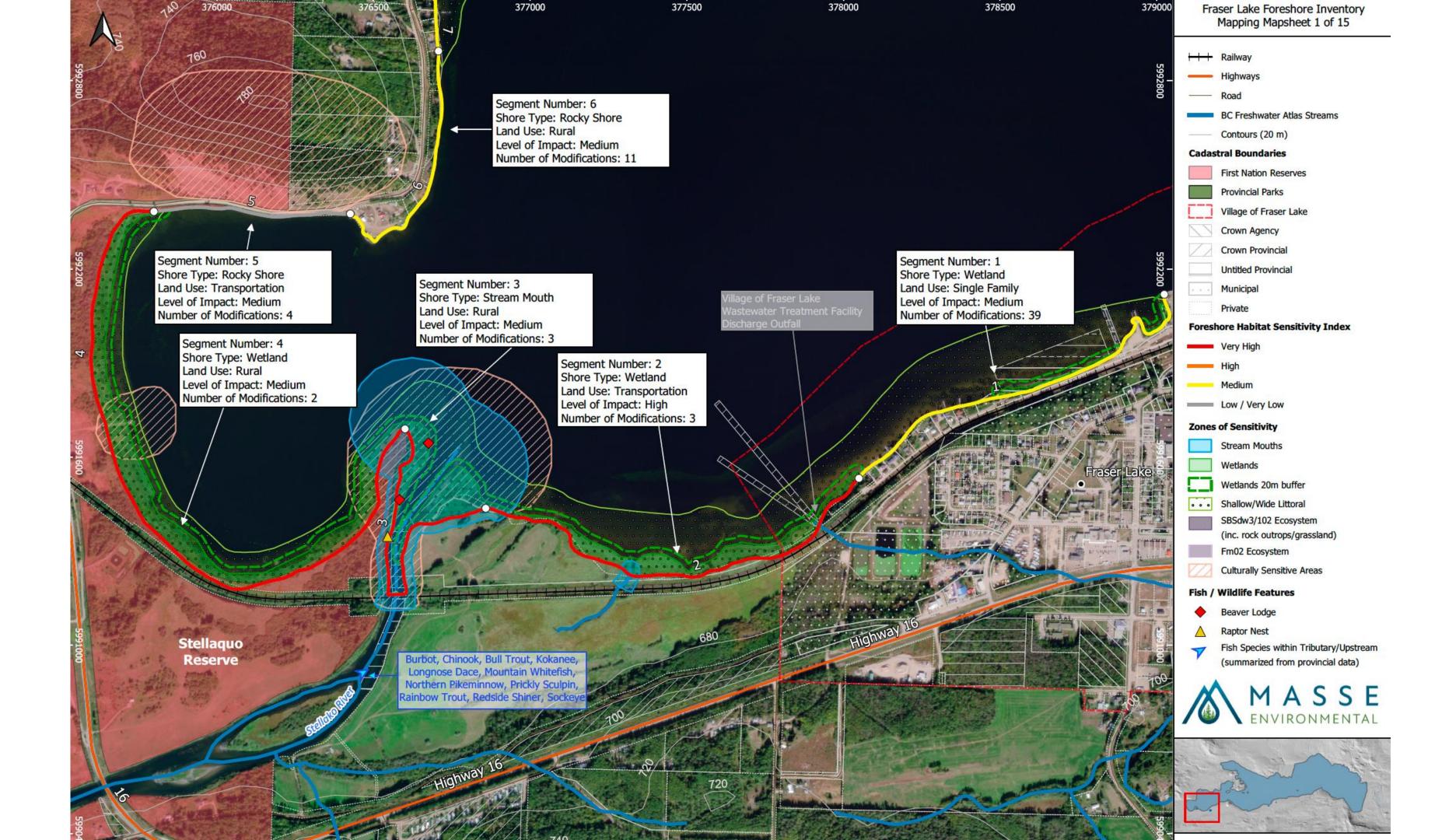
Fraser Lake Foreshore Inventory Segment FHSI Ranking Overview



Provincial Parks

Village of Fraser Lake

Foreshore Habitat Sensitivity Index





Francois Lake FIMP

Project Team:

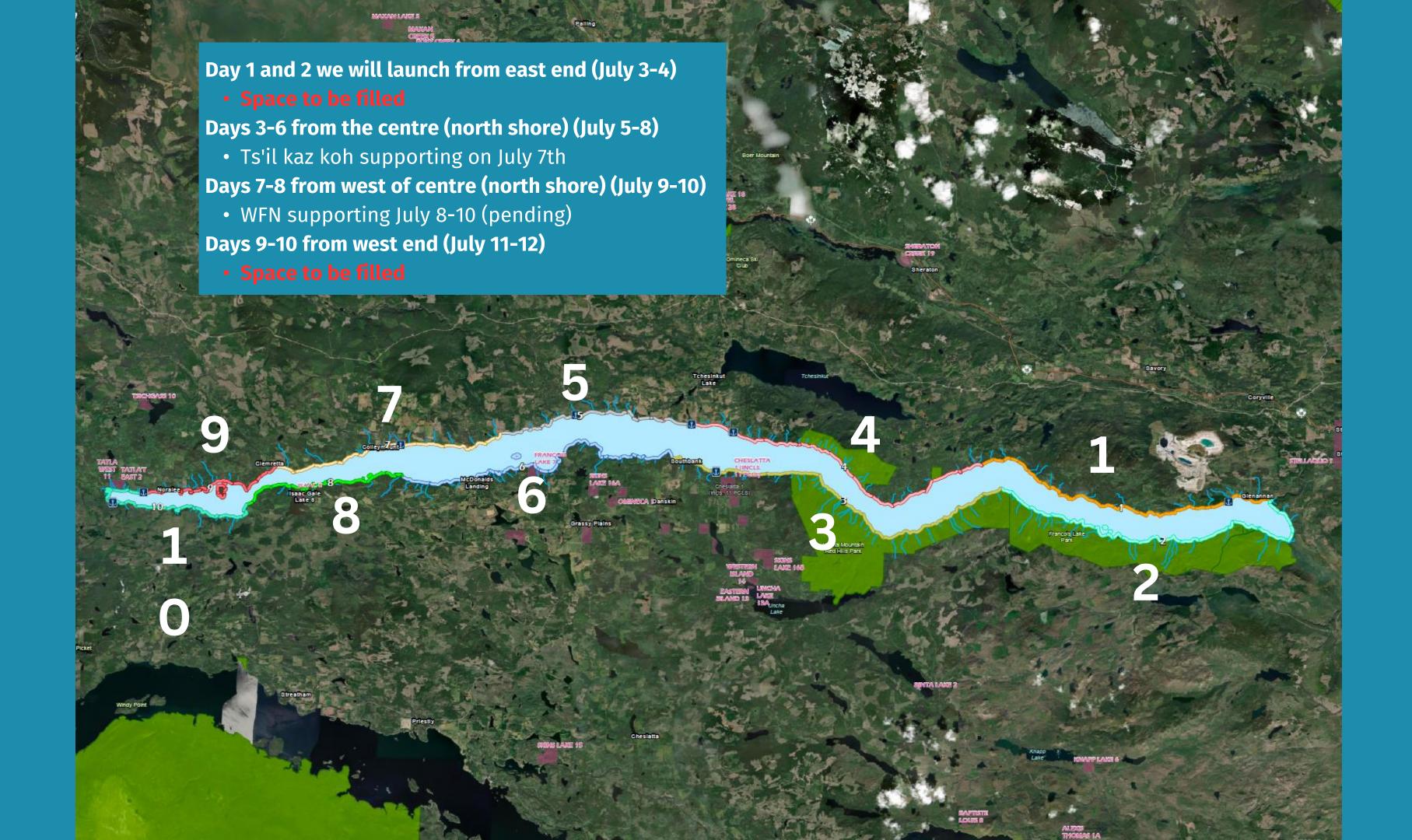
- Ecoscape and Lotic Environmental
- Wet'suwet'en First Nation
- Ts'il Kaz Koh First Nation
- Stellat'en First Nation
- Cheslatta First Nation (pending)
- Airrays Drone Services
- Living Lakes Canada

Project Steering Committee:

- Fraser Basin Council- Nechako Watershed Roundtable
- Ts'il Kaz Koh First Nation
- Nechako Environment and Water Stewardship Society
- Regional District of Bulkley-Nechako
- BC Parks (François Provincial Park)
- Living Lakes Canada







Francois Lake FIMP

Project Timeline:

- Field work taking place July 2-16th
- Drone footage collection taking place soon after
- Desktop review and report writing fall 2025
- Draft report review winter 2026
- Final reports, maps, and drone footage available in spring 2026
 - Available on the FIMP landing page and interactive map resource
- Community outreach and engagement occurs throughout the project timeline





2023 Fraser Lake Foreshore Survey

Findings:

- 65% of the shoreline was in natural condition (46.5 km), while 35% was disturbed (24.5 m).
- Highly impacted areas were associated with dense residential developments, the CN railway, roads, and areas that had been cleared for agricultural/rural land uses.
- Between the 2012 and 2023 surveys, disturbed shoreline increased by 1.9 km (~2.6%), representing an annual increase of 155 m or 0.2%.
- 12 Culturally Sensitive Areas were identified and represented on the FIMP maps.
- Five Zones of Sensitivity were identified and recommended with a high level of conservation.



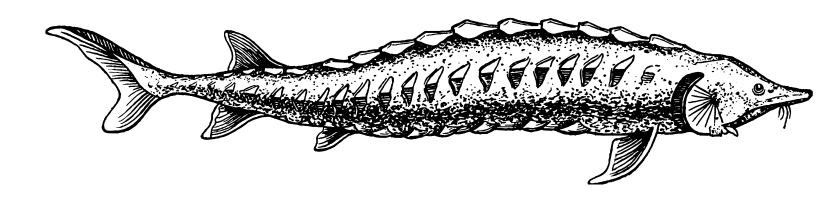
Fraser Lake – Nadleh Bun
Foreshore Integrated Management Plan – 2023



Prepared for: **Living Lakes Canada** PO Box 6911 Nelson, BC, VOA 1KO

June 11, 2024

2023 Fraser Lake Recommendations



- 1. Designation of conservation areas (ZOS);
- 2. Update the RDBN and Village of Fraser Lake OCPs with the results of the FIMP;
- 3. Establish a Waterfront Development Permit Area and any Land Planning Processes within OCP's
 - a. Implement a collaborative permitting process for the WDPs;
- 4. Conduct a formalized archaeological assessment and develop a local Chance Find Procedures document;
- 5. Implement a co-governed compliance and enforcement committee;
- 6. Consider climate change during foreshore planning;
- 7. Encourage communal boat launches and shared docks;
- 8. Prohibit the placement of mooring buoys and docks in wetland and stream mouth ZOS;
- 9. Manage livestock access in front of waterfront properties;
- 10. Encourage riparian restoration efforts in disturbed areas;
- 11. Complete a lake wide mussel survey to determine the extent and distribution of mussels throughout the lake.

Thank you!

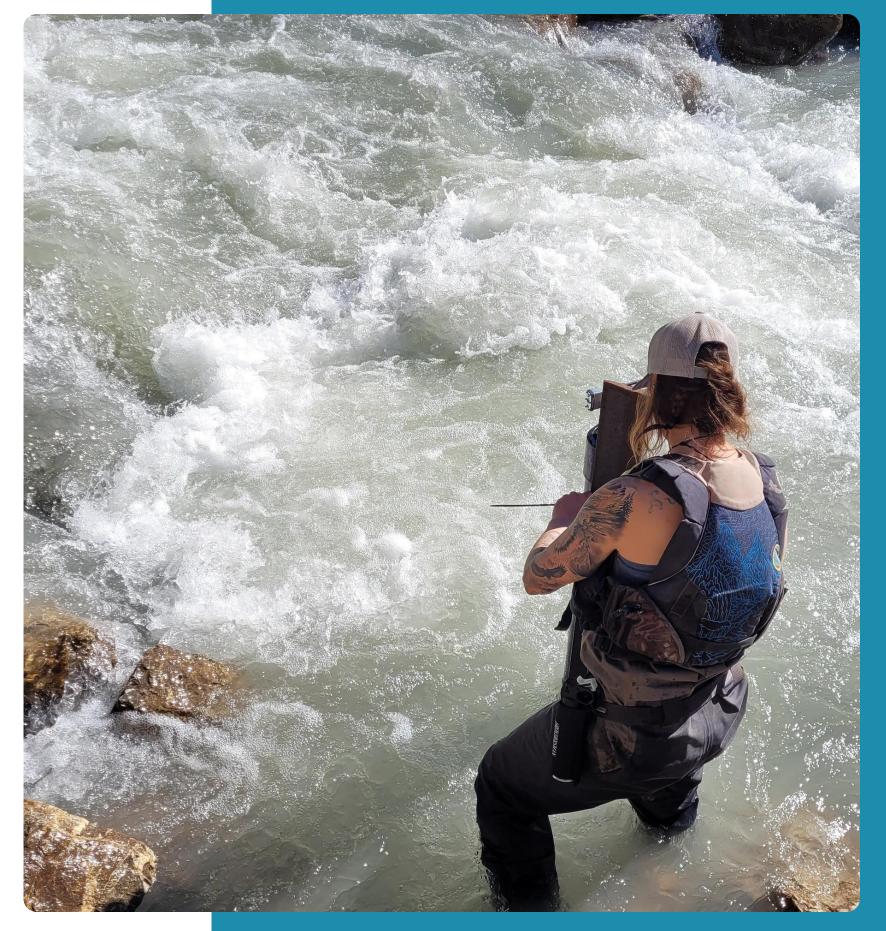
Learn more

www.livinglakescanada.ca

Contact us

Georgia Peck

georgia@livinglakescanada.ca



Hydrometric monitoring on Delphine Creek. LLC Photo