



# Stephenville Hatchery Expansion

Public Consultations

October 10, 2024



**MOWI**<sup>®</sup>  
CANADA EAST

**Welcome**



**MOWI**<sup>®</sup>

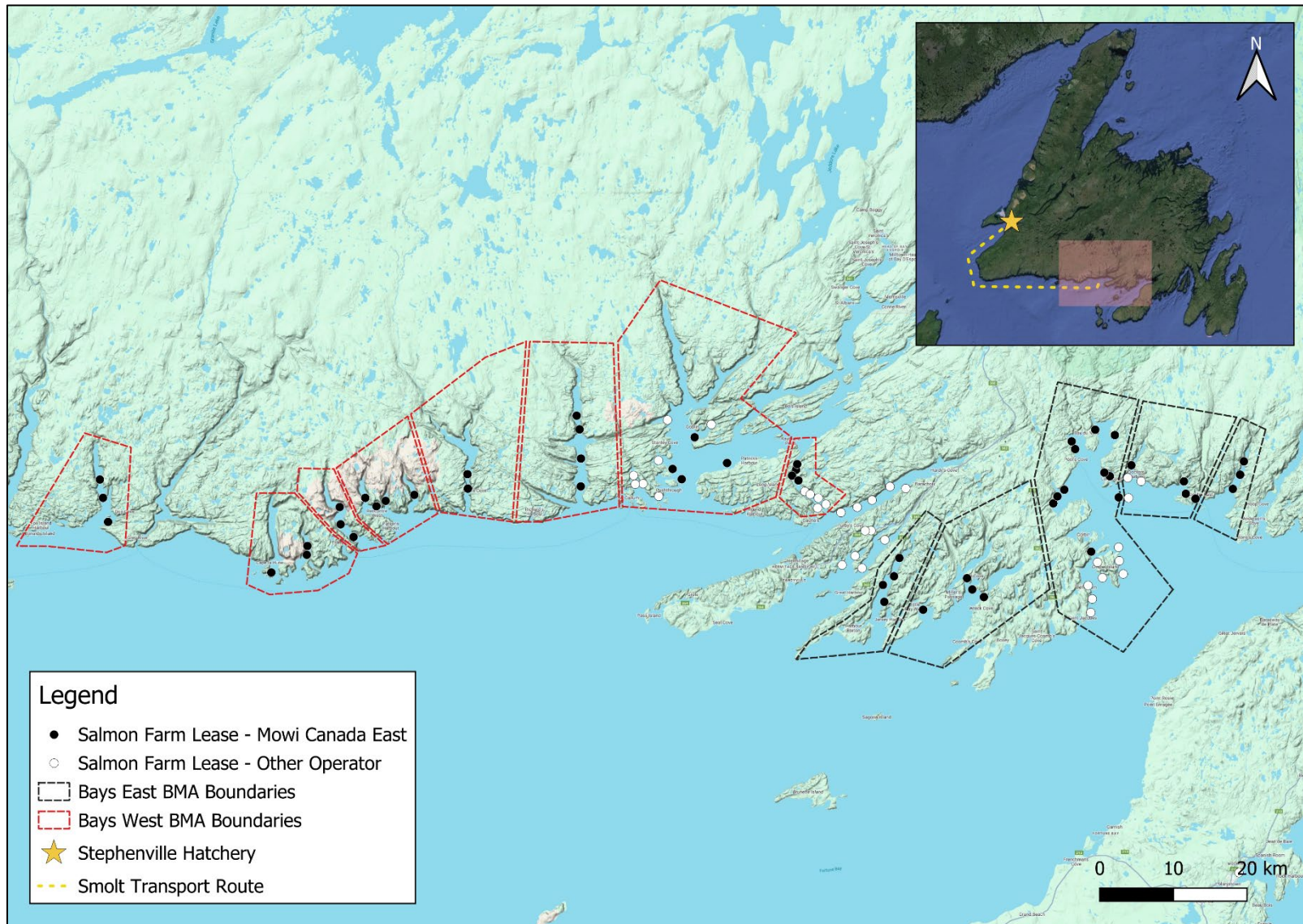


# Who is Mowi Canada East?

- Salmon farming company that has been operating in the province since acquiring Northern Harvest in July 2018.
- Northern Harvest had been operating in the province since the 1990s.
- Mowi operates in 26 countries and Canada East is part of this global operation.
- Currently employs 125 people in Newfoundland.
- Seawater operations on the South Coast of Newfoundland and a Freshwater Hatchery in Stephenville.

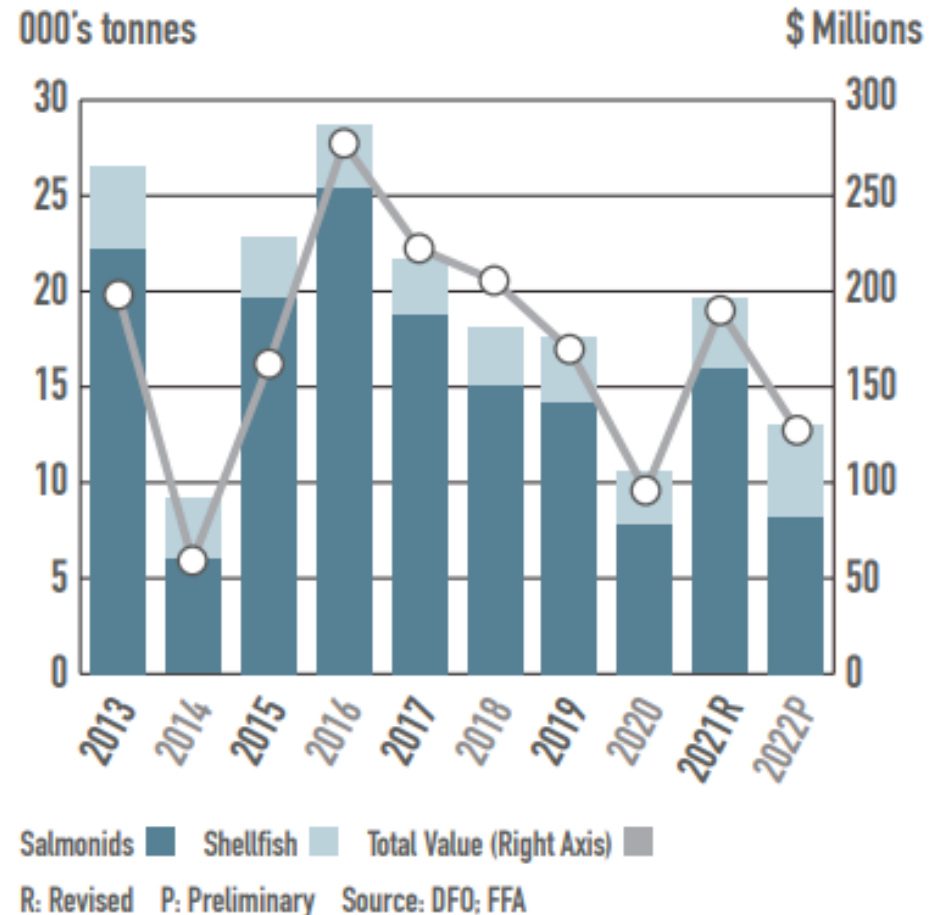


# Salmon Farming – Newfoundland



# Salmon Farming – Newfoundland

## Aquaculture Production



- Atlantic salmon and steelhead trout are grown in NL.
- There are over 100 commercial salmonid licences granted in NL.
- 19,942 MT of production (2023)
  - 15,645 MT Salmonid
  - 4,297 MT Shellfish
- 523 direct ppl employed
- 1,000 indirectly employed
- Market value has ranged \$75-250 million.



# The Indian Head Expansion Project

- Produce larger, more robust smolt and increase production by 2.2 million smolt per year.
- Add >30 new employees in Newfoundland (both Freshwater and Seawater)
- To date, ~\$86 million has been invested in the Hatchery Expansion (>\$100 million by completion).





# The Indian Head Expansion Project - Key Features

Original Site (2011)

CONNECTICUT DRIVE

SHORELINE





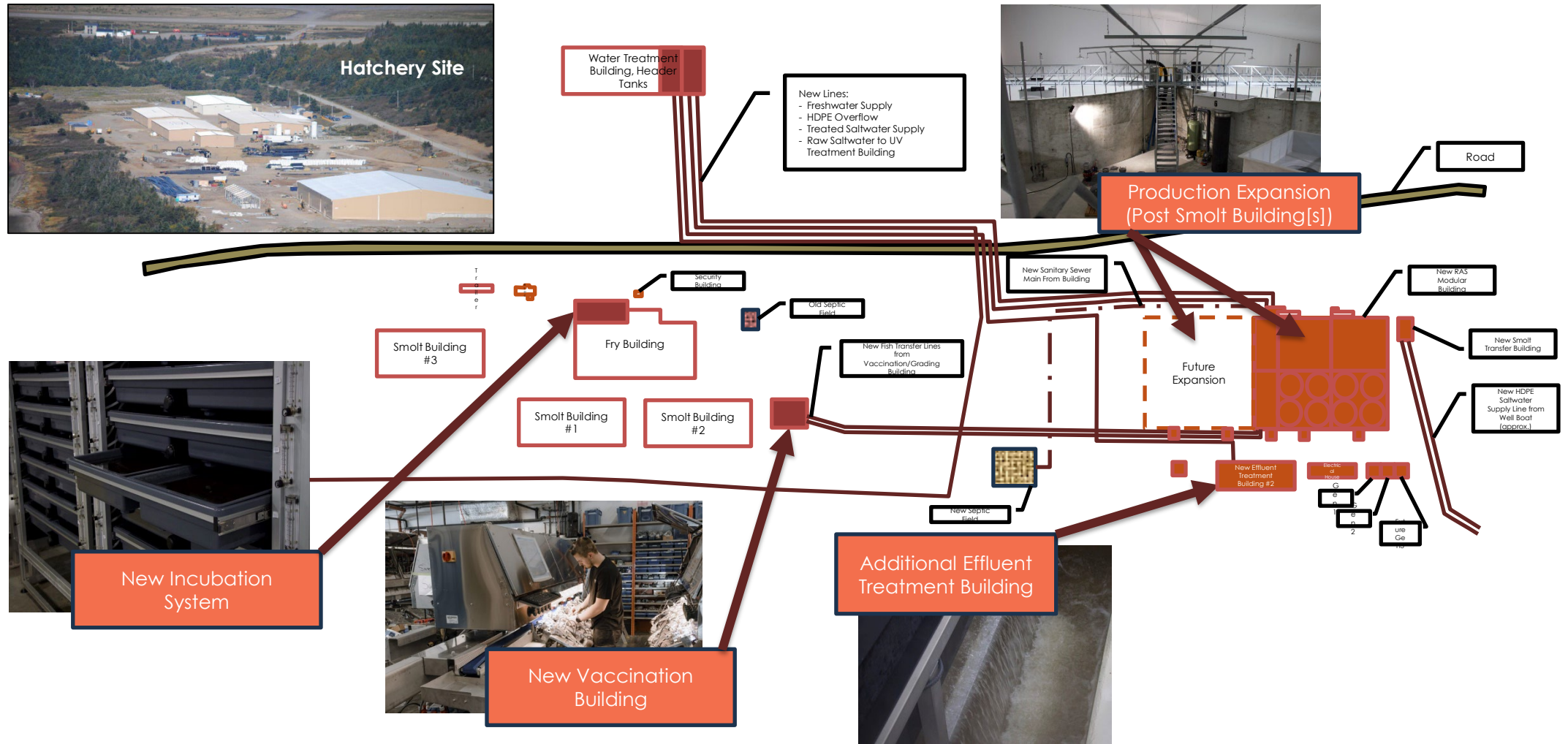
# The Indian Head Expansion Project - Key Features





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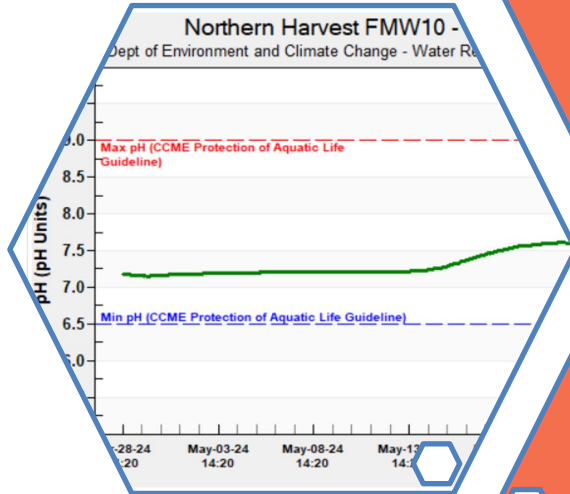


# Hatchery: Monitoring



## Water Quality

- pH
- Oxygen
- Ammonia
- Nitrate/Nitrite
- Temperature



## Fish Health

- (Mowi and Provincial)
- Daily checks by staff (health and behaviour)
  - Veterinarian checks (monthly and quarterly for bacteria and viruses)
  - Health Permits issued by Provincial vets before transfer to sea

## Real Time

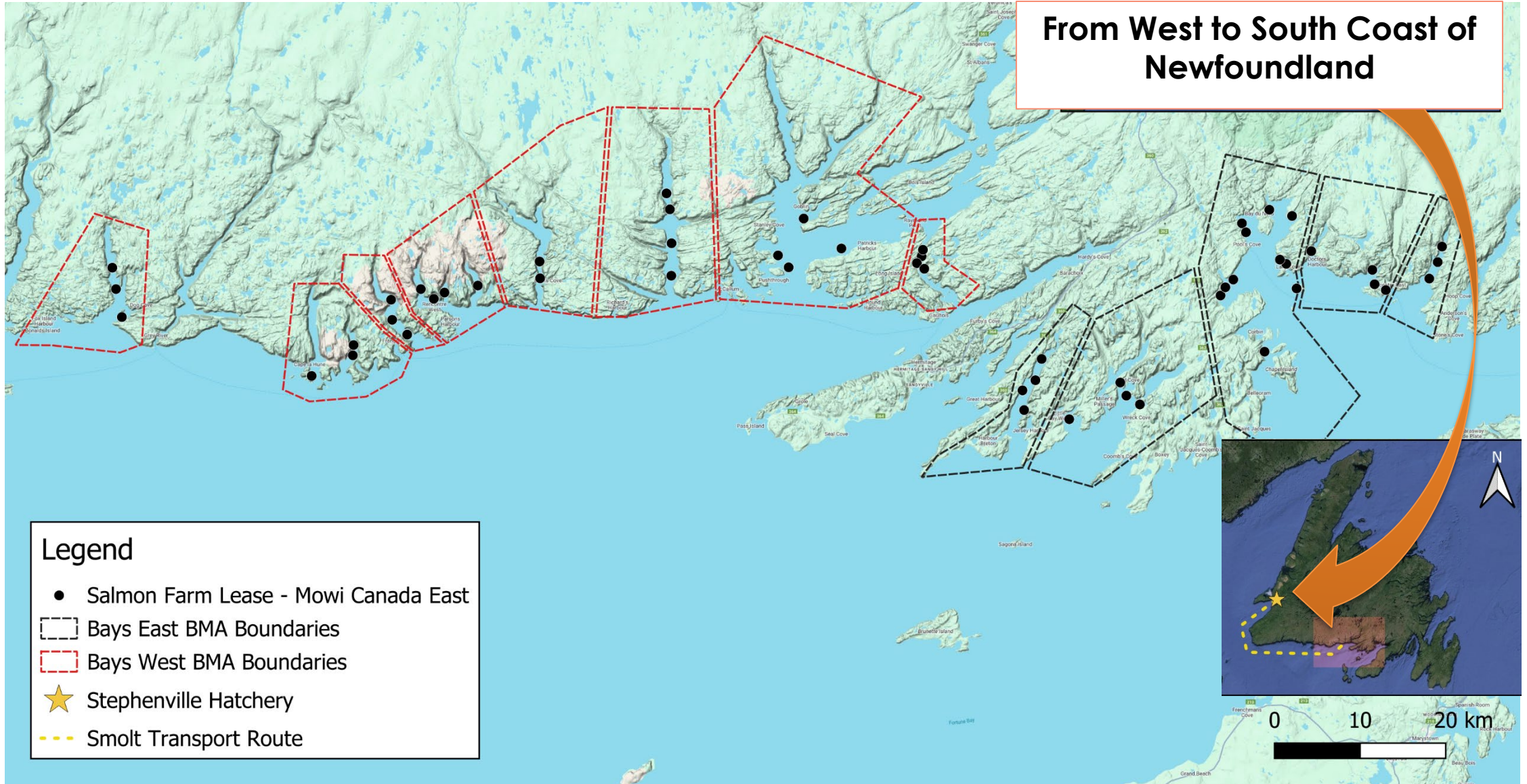
- Live on Department of Environment website
- Well water parameters (e.g. pH, temp)



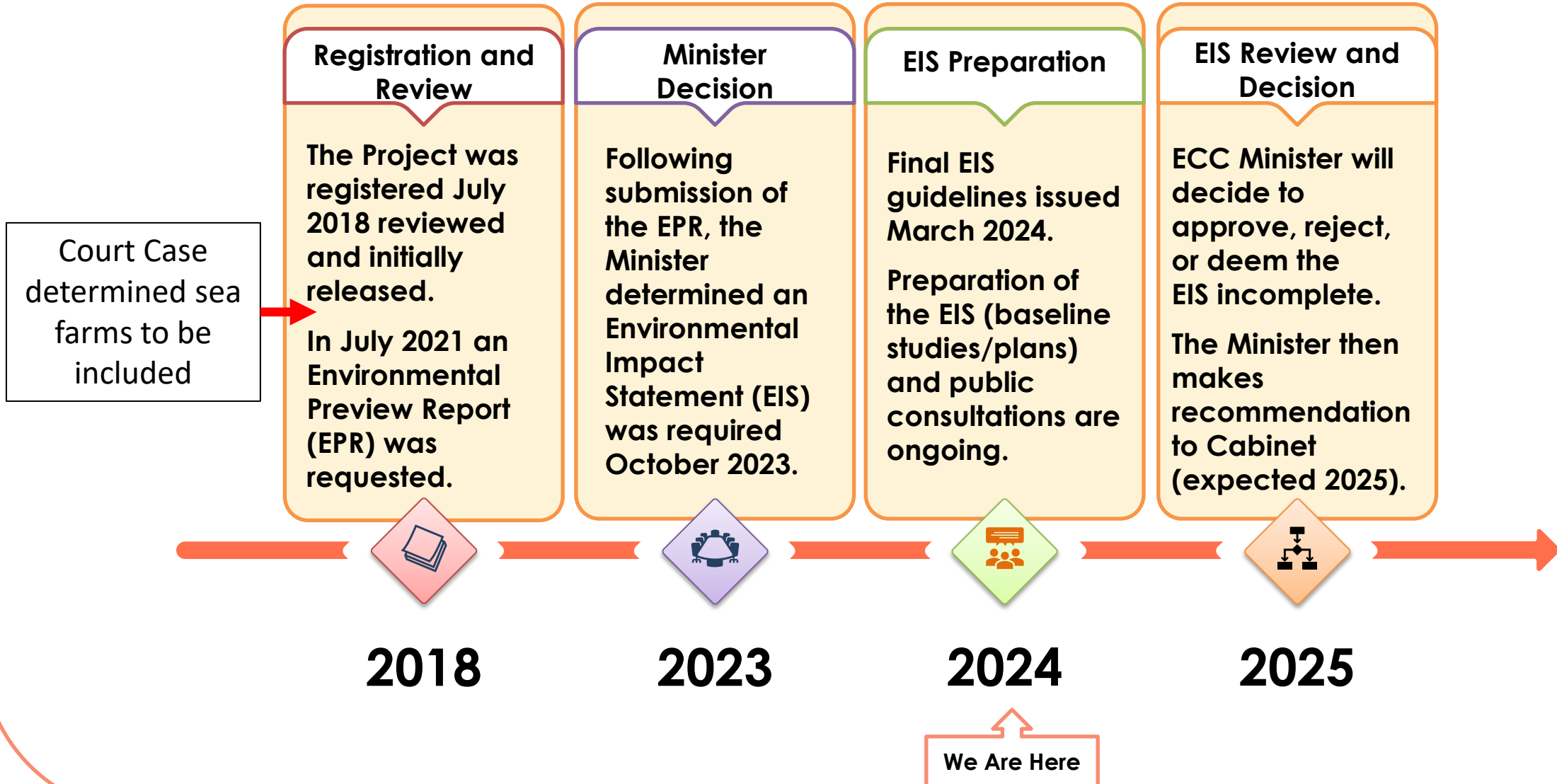


# Fish Transfer from Land to Sea

From West to South Coast of Newfoundland



# EIS Process and Timeline





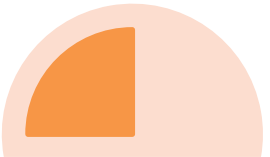
# EIS Preparation

## Public Consultation

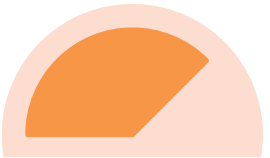
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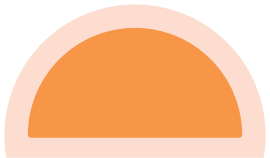
Approved Public Consultation Plan



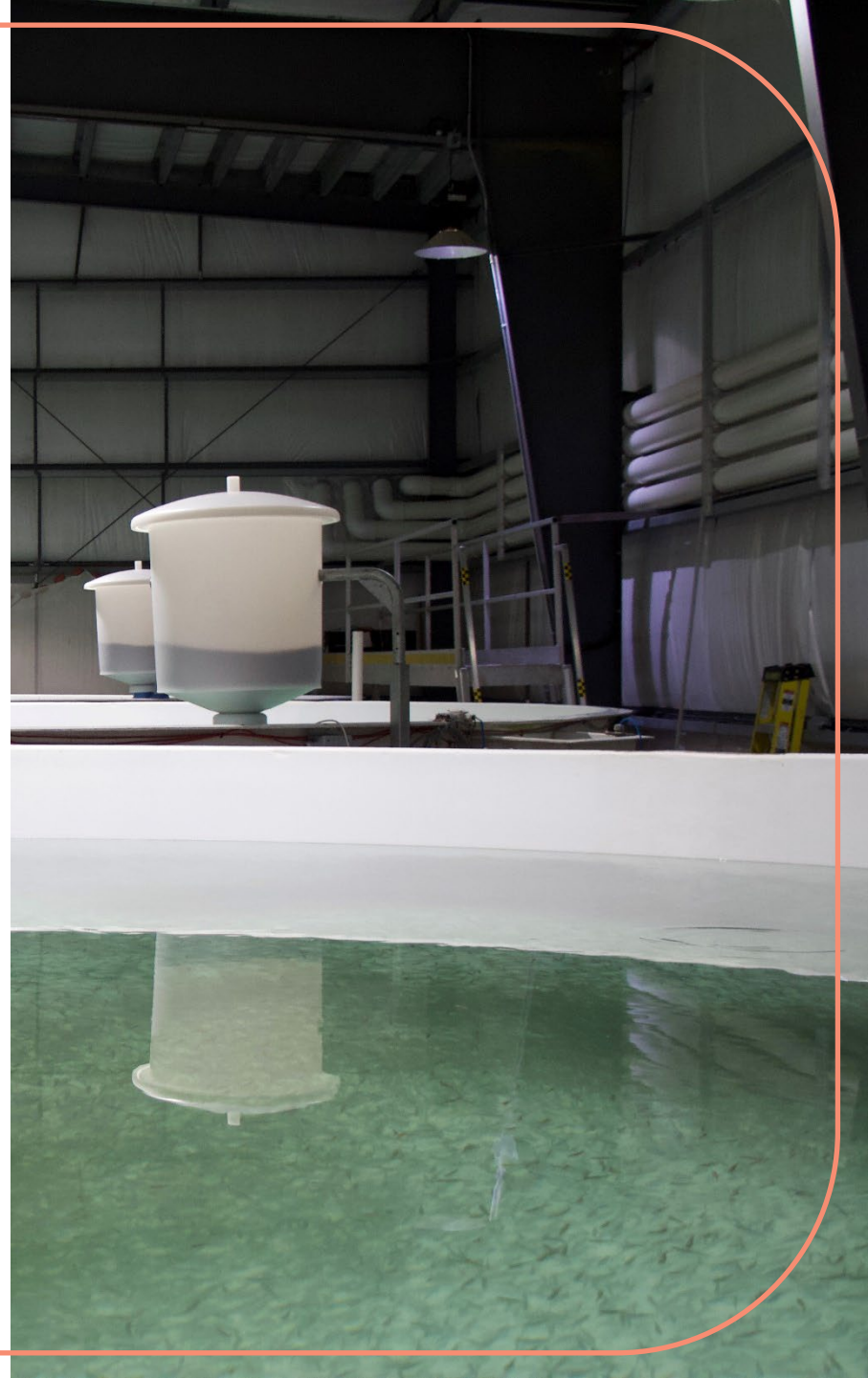
Public information sessions, Meetings with Indigenous groups and stakeholder meetings



Document concerns, questions, and statements of support



Summarize and address concerns for inclusion in the EIS



# EIS Methods: Overview

Scoping of Assessment

## Step 1: Selection of Valued Environmental Components (VECs)

- Rationale for selection
- Regulatory and policy setting
- Identification of spatial and temporal boundaries

Existing Conditions

## Step 2: Description of Existing Conditions

- Existing conditions methods (field and desktop studies)
- Establishment of existing environmental conditions (including focused Baseline Studies)

Assessment Criteria and Methods

## Step 3: Description of Assessment Criteria and Methods

- Residual effects characterization
- Identification of potential effects
- Screening of Project-environment interactions
- Analytical assessment techniques (e.g., modelling)

VEC Assessment

## Step 4: Mitigation and Management Measures

## Step 5: Assessment of Predicted Environmental Effects of the Undertaking

- Description of Project residual environmental effects
- Characterization of predicted (residual) environmental effects

Repeat for each Environmental Effect

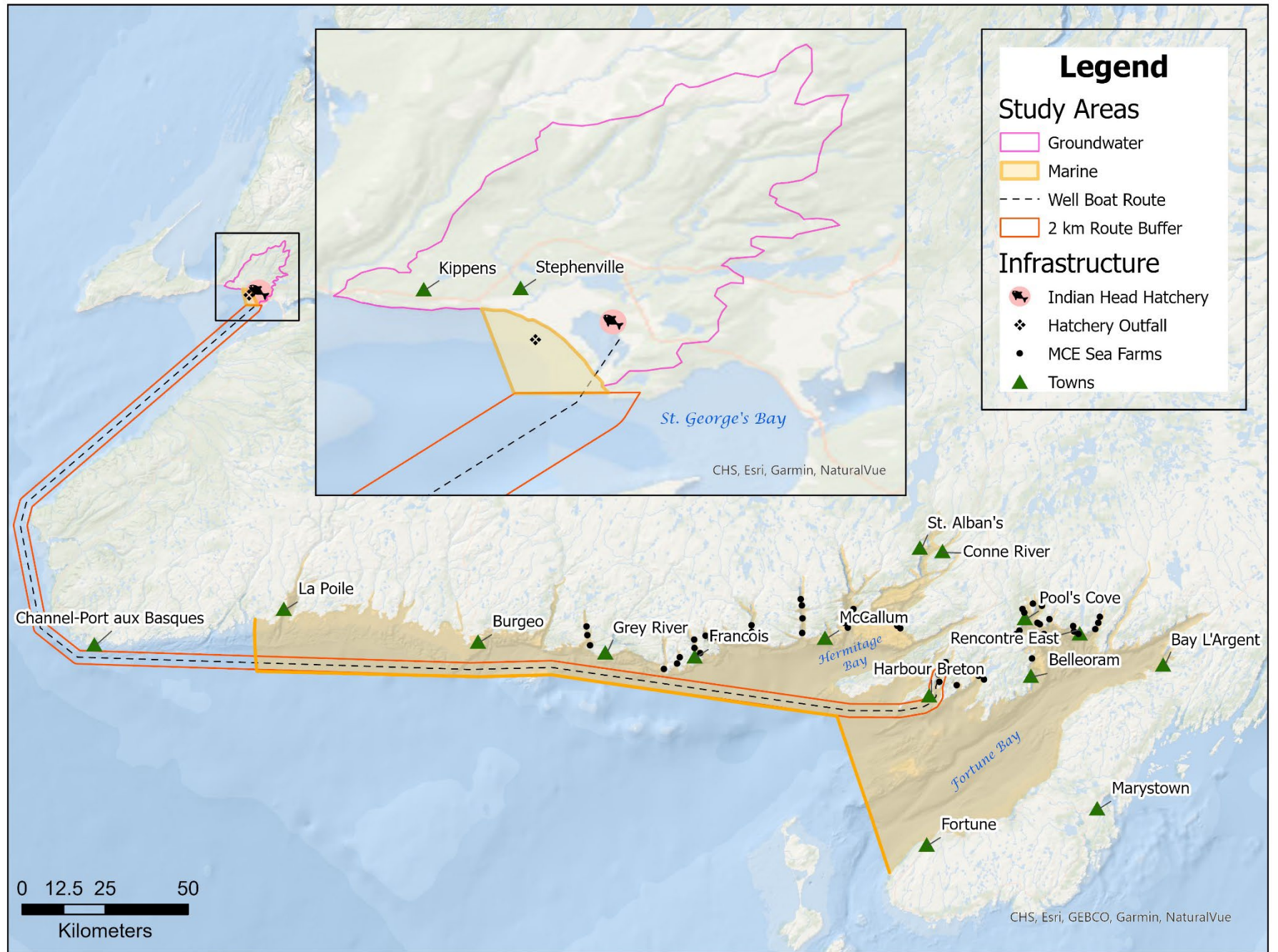
## Step 6: Determination of Significance

## Step 7: Prediction of Confidence

## Step 8: Follow-Up and Monitoring



# Study Areas





# Baseline Studies

## Wild Atlantic Salmon

- Population abundance, distribution, and migration
- Proximity of sea farms to rivers
- Genetic and ecological interactions with farmed salmon
- Model to predict potential for farmed salmon escapees

## Sea Farms (Bay Management Areas)

- Historical performance (escapees, sea lice, mortalities, treatments)
- Exposure zone modelling for fish health products
- Oceanographic, meteorological, water quality, and benthic habitat data and information
- Sea cage location and layout information

## Fish and Fish Habitat

- Identify fish and fish habitat including those that support a fishery
- Identify Species at Risk, Aquatic Invasive Species, and marine mammals
- Benthic surveys and aquatic dispersion modelling



## Environmental Effects Monitoring Programs (EEMPs)

- Genetic and Ecological Interactions of Escaped Farm Salmon with Wild Atlantic Salmon
- Groundwater Monitoring Program
- Benthic Monitoring Program
- Aquatic Invasive Species Management and Monitoring Program
- Climate and Meteorological Data Monitoring Program
- Marine Wildlife Monitoring Program

# **Genetic and Ecological Interactions of Escaped Farmed Salmon with Wild Atlantic Salmon**

- Develop in close consultation with Fisheries and Oceans Canada. They already complete work annually on the South Coast of NL.
- Continued engagement with special interest groups
- Methodology to be determined in the Environmental Effects Monitoring Program (EEMP)





## Meeting Outcomes and Next Steps

- **Interact** with Mowi staff, consultants, and industry members
- in attendance
- **Ask Questions** to the Experts
- **Provide Comments:** note your support for the Project and concerns about any specific Project features
  - Valuable for our team for preparation of Consultation Report that will be submitted to Department of Environment and to improve our industry.

### Thank you!

For more information, please visit our website:  
[indianheadproject.ca](http://indianheadproject.ca)



**Website/Email**

Email us at [stephenville.eis@mowi.com](mailto:stephenville.eis@mowi.com)

- Questions
- Comments
- Concerns
- Statements of Support

**MOWI**

**Thank you**