# **NOVI**<sup>®</sup>

### Aquaculture Stewardship Council Certification

Comox Valley Regional District April 16, 2019



### Mowi Canada West

January 1<sup>st</sup> 2019 Marine Harvest changed its name to Mowi.

- Campbell River head office
- Processing plants in Klemtu, Port Hardy, and Surrey
- 600 total employees
- 45,000 tonne annual average harvest. Half of BC total harvest



### Mowi Canada West - 2018

- Sales: ~\$320million CAD
- Distribution: 68% US, 31% Can, 1% Asia
- Wages: ~\$3.4 million per month payroll/benefits
- Supply chain: ~\$16 million per month
- 175 suppliers North / Central Vancouver Island.





#### The Aquaculture Stewardship Council (ASC)Certification

The ASC is an independent, international non-profit organisation. ASC creates credible, science-based standards though transparent, multi-stakeholder processes for a number of commonly farmed seafood products.



#### Achieving Aquaculture Stewardship Council (ASC) Certification

- Gold standard in environmental certification
- Developed through 8 year dialogue process involving ENGOs, researchers and industry
- 23 Mowi Canada West marine sites are certified
- Extensive environmental monitoring including monitoring wild salmon.
- Treatment reduction target
- Commitment for 100% certification



Photo: Marine Harvest Canada

Marine Harvest Canada salmon farm first in North America to earn ASC certification

Buyers already committed to the limited volumes available.

#### Aquaculture Stewardship Council Guiding Principles

The ASC standard includes over 500 clauses that must be met to achieve certification

- Comply with all applicable national laws and local regulations
- 2. Conserve **natural habitat**, local **biodiversity** and **ecosystem function**
- 3. Protect the health and genetic integrity of wild populations
- 4. Use resources in an **environmentally responsible** manner
- 5. Manage disease and parasites in an environmentally responsible manner
- 6. Develop and operate farms in a **socially responsible manner**
- 7. Be a good neighbour and conscientious citizen



## Third Party Endorsement

- World's most influential seafood ranking
- June 2017: ASC certified salmon ranked as "good alternative"
- Sept 2017: All BC farm-raised Atlantic salmon recommended by seafood watch

# Monterey Bay Aquarium Seafood Watch<sup>•</sup>

Atlantic Salmon Salmo salar



Monterey Bay Aquarium



British Columbia, Canada Marine Net Pens

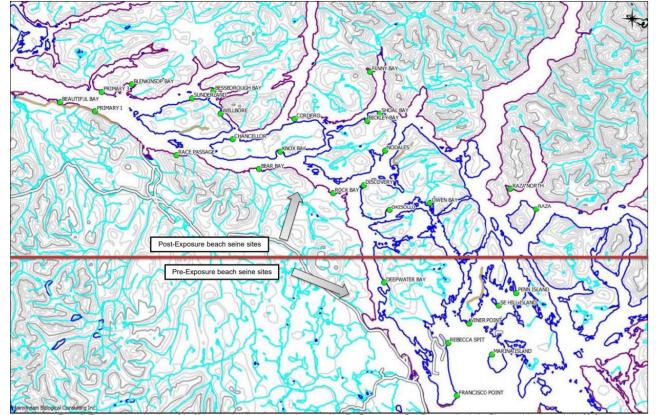
September 18, 2017 Seafood Watch Consulting Researcher

#### **ASC Requirements for Wild Salmonid**

**Indicator 3.1.6** "In areas of wild salmonids, monitoring of sea lice levels on wild outmigrating salmon juveniles, with results made publicly available".

- Third party analysis of sea lice levels on wild salmonids in each production area.
- Samples taken before expected exposure to farms and after.
- Levels are found to be consistently below the threshold of harm.

Species	Sample Location	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	Pre- Exposure	123	36	30	24.4	0.29	1.2
	Post- Exposure	599	25	24	4.0	0.04	1.0
pink	Pre- Exposure	125	38	29	23.2	0.30	1.3
	Post- Exposure	309	16	15	4.9	0.05	1.1

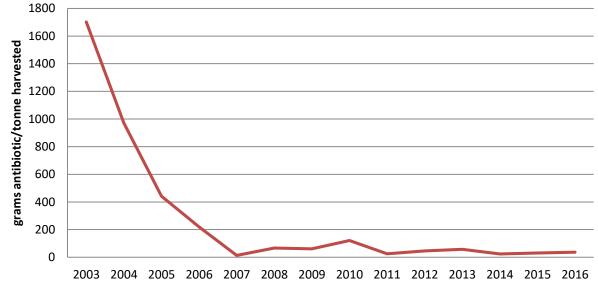




#### ASC requirements for antibiotic use

**Indicator 5.2.9** "Number of treatments of antibiotics over the most recent production cycle".

• ASC recognises that antibiotics may be required for proper management of salmonid health. However strict limits on use are a part of the ASC standard.



- Mowi strives to ensure the best health of our fish, and through husbandry improvements and vaccine development, a vast reduction in antibiotic use has been achieved.
- Mowi continues to further improve fish health, with the goal of eliminating the need for antibiotics in production.



## Investments in Fish Health

- Canada's largest
  aquaculture vessel
- Sea lice and gill health treatments
- Holds 3,000 cubic metres of water
- Reverse osmosis creates its own fresh water



## Investments in Fish Health

- Significant investments in non-medicinal sea lice treatments
- Mechanical removal of sea lice with Important tool in Integrated Pest Management
- Hydrolicer began treatments in spring 2018



# Working with First Nations

- Agreements with 13 First
  Nations Governments
- Engaging First Nations owned businesses as suppliers
- Building inclusive workforce reflective of community
- Developing First Nations monitoring programs

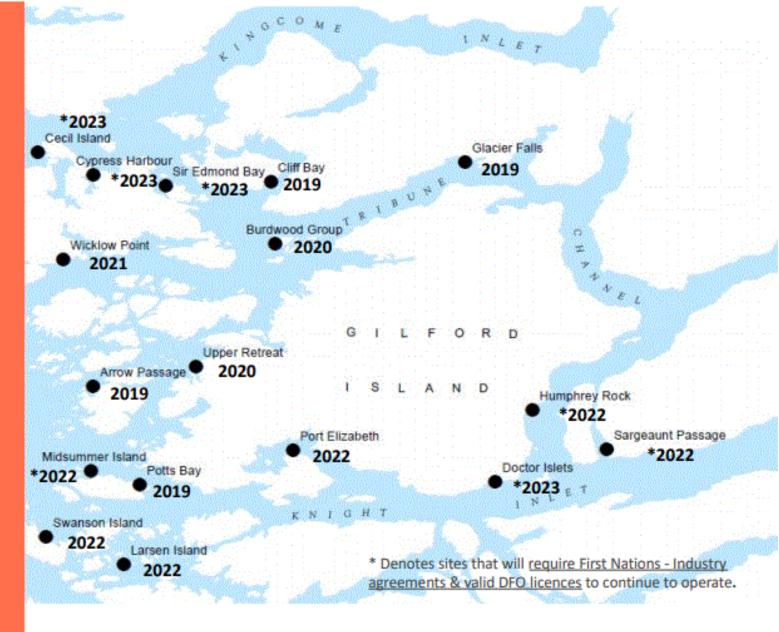
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### Broughton Recommendations December 14, 2018

### Jointly Supported Recommendations

- Orderly transition of salmon farms 2018 to 2023. Four of twelve Mowi farms may remain if there is First Nations Agreement
- Three farms decommissioned, nine tenures have been renewed
- First Nations oversight through Indigenous Monitoring and Inspection Plan
- Wild salmon restoration projects
- Increased First Nations Capacity
- \$143-million BC Salmon Restoration and Innovation Fund to support such projects



Mowi farms Glacier Falls, Arrow Passage and Potts Bay are currently being decommissioned

# Community Support

- Mowi helps over 140 community organizations every year
  - Tsolum River Society
  - Snow to Surf
  - Comox Bay Sailing Club
  - BC Seafood Festival



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### THANK YOU