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Tsleil-Waututh Nation: restoring shellfish harvest opportunities in Burrard Inlet, Canada

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Restoring Shellfish harvest opportunities in Burrard Inlet, Canada



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John Konovsky, Lindsey Ogston, Hillary Hyland

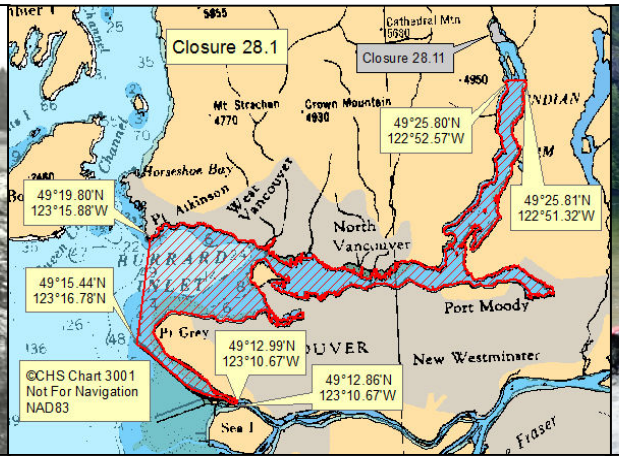
Tsleil-Waututh Nation
Salish Sea Ecosystem Conference, Seattle, April 2018

TSLEIL-WAUTUTH NATION
PEOPLE OF THE INLET

Current state of Burrard Inlet

- 1885: herring extirpated
- 1972–present: closed to bivalve harvesting
- Witnessed a decline in habitat type, function, connectivity, and species populations
- Contains point and non-point pollution sources
- Lacking coordinated monitoring and environmental stewardship oversight
- Lacking continuous record of land use and environmental quality

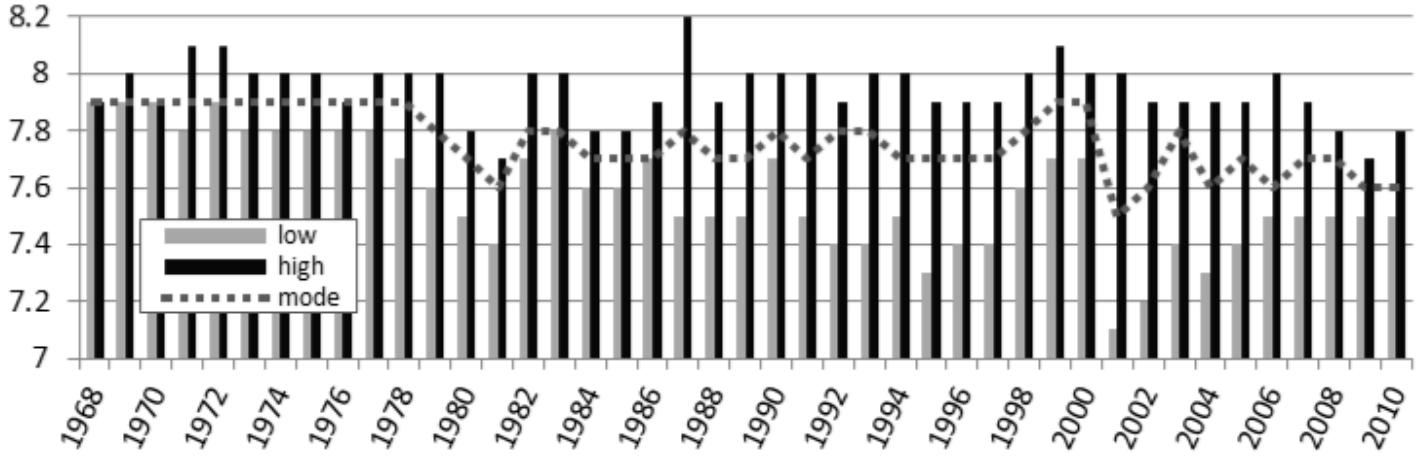
Site reclassification process

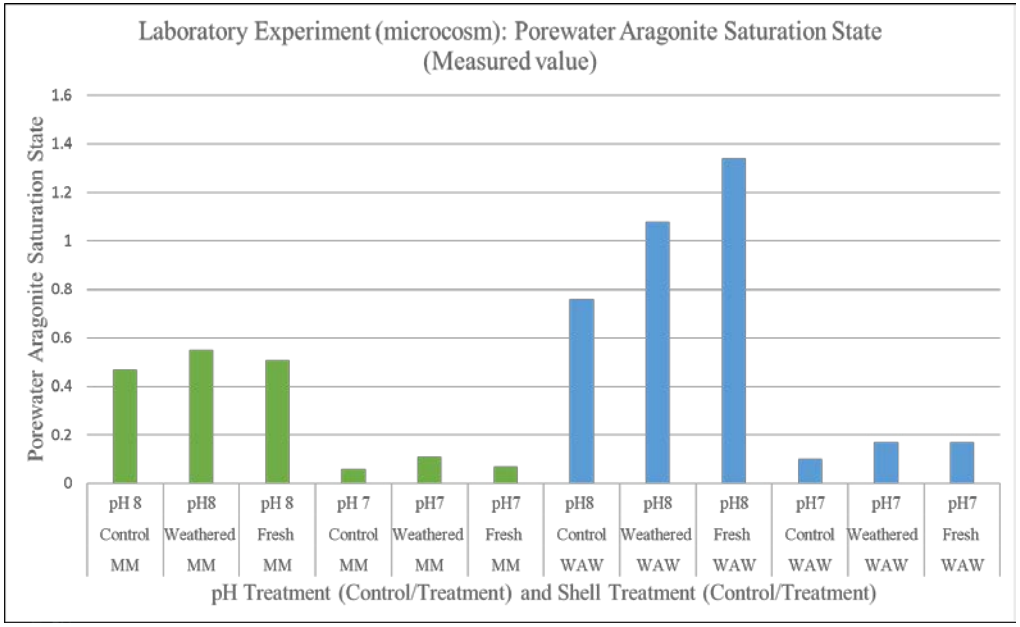


Year Initiated	2005-2010	2010-2015	2015-2020
Activity	1. Water quality sampling 2. Point source pollution inventory	1. Viral dilution model 2. Marine biotoxin monitoring 3. Community Harvest Management Plan and Area classification	1. PRISC reclassification 2. First TWN harvest 3. Create conditions to expand opportunities….

TWN science related to shellfish program

Seawater pH at Vancouver Aquarium (Marliave, 2011)



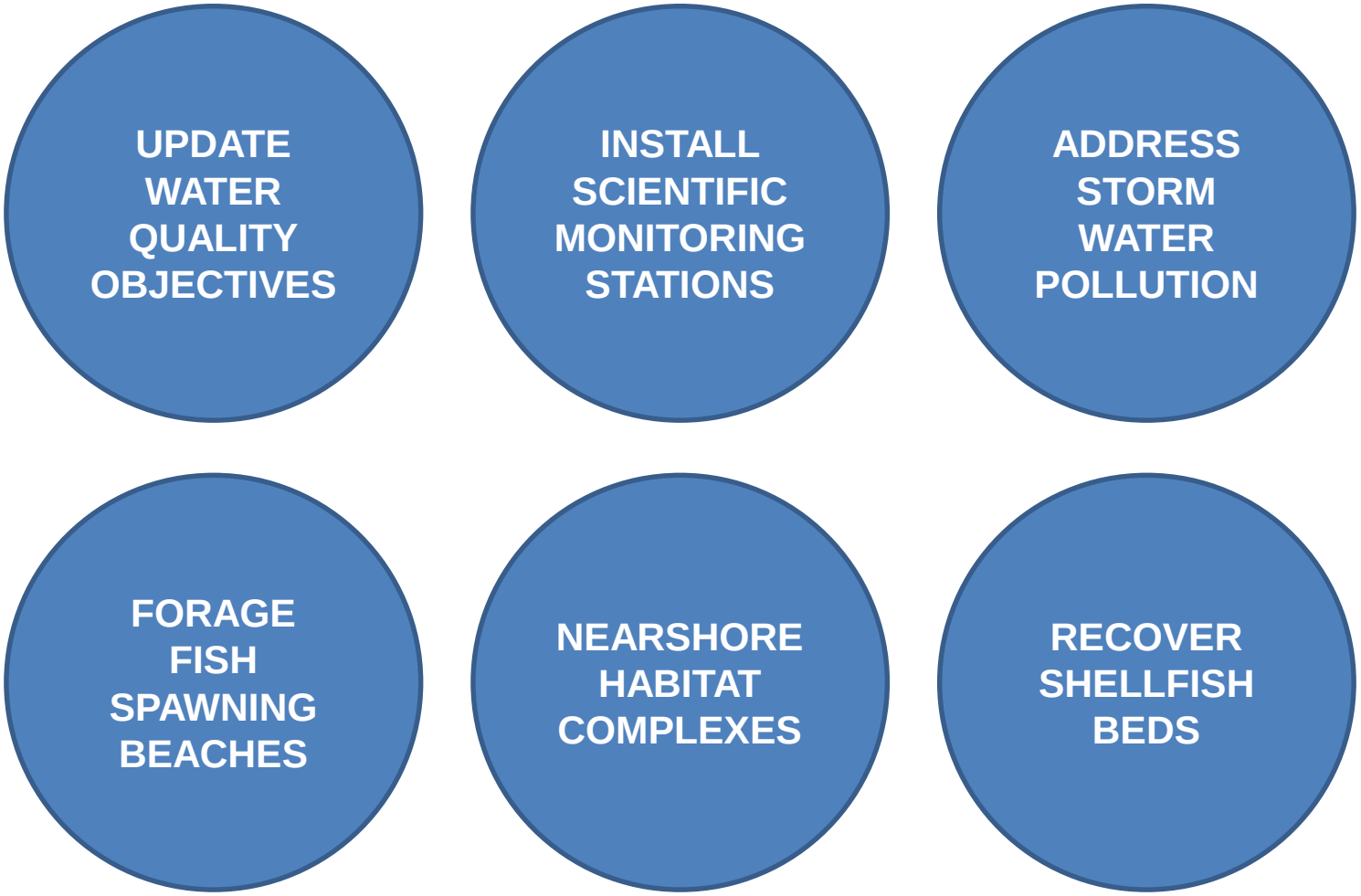


(Doyle, M.Sc. Thesis, Royal Roads Univ., 2016)

(ONC, 2017)

Site restoration priorities

Burrard Inlet Action Plan – 6 Priority Actions



MST* Cumulative Effects Monitoring Framework

*MST = Musqueam, Squamish, and Tsleil-Waututh Nation

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Thanking all of you

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