



Georgia Strait Alliance
Caring for Our Coastal Waters

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www.GeorgiaStrait.org

Over 7 million people live in Salish Sea region



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Pollution prevention - wastewater



- #1 polluter of surface water in Canada
- Metro Vancouver
 - Only 50% treated to secondary level only
 - Annacis
 - Langley
 - LuLu
 - Lions Gate and Iona currently primary

Important local fish habitat

- Burrard Inlet:
 - over a 100 species of invertebrates, 70 species of fish, & many species of birds.
- Seymour and Capilano Rivers
 - significant salmon populations, including Coho, Chinook and Chum, and steelhead trout.



“Whale contamination illustrates how ignorant [we] are about the effect of the thousands of chemicals being dumped in the ocean.”

"It's not very reassuring for humans to find high levels of endocrine-disrupting chemicals in animals at the top of the food chain. We would be unwise to ignore what we are seeing.”

- Dr. Peter Ross, Times Colonist, February 10, 2008

The traditional path

Primary treatment (1800s)
Settles the solids



Secondary treatment (1914)
Bugs consume the organics

Sewage contains ten times the energy
needed to treat it
- David Bagley



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Closing the loop



Sludge & oil to biodiesel



Sludge to oil reactor, California (also converts ammonia to fertilizer)



**Tourist boat powered by biodiesel
in Montreal: 50 people, 50 knots**

Moving forward

- Still waiting new federal regulations
 - Secondary treatment minimum standard
- Metro Vancouver:
 - Lions Gate – 2020
 - Consultation starting now
 - Iona - 2030 (or sooner)
 - CSOs:
 - Vancouver – 2050
 - Langley - 2075





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