

**Continuing to Address Recreational Water Quality at Parlee Beach:
A Renewed Work Plan**

Recommendation from <i>Parlee Beach Water Quality - Final Report - Shediac, New Brunswick, March, 2018</i>	Timing	Preliminary Budget	Lead Agency*
1. Enhance and continue watershed monitoring programs to gather additional data that will help identify specific sources of bacteria. Enhancements may include: increasing sampling frequency, additional collection sites, weather stations, conducting DNA testing (both at the beach and in the watershed), and sampling during wet conditions / rainfall events.	2018	\$150,000	ELG
2. Apply the hydrodynamic model to validate the transport paths related to actual discharges into the Bay (concentrations, volumes, weather conditions).	2018	\$35,000	ELG, consultant
3. Conduct a targeted investigation in the high-density areas with sub-standard building lots, identified in the consultant's report, to verify if on-site sewage disposal systems are a potential source of bacteria.	2018	\$50,000	JPS, DH
4. Develop and implement a watershed management plan for Shediac Bay. Further details are included in Appendix C of the "Recommendations for Enhanced Watershed Management in New Brunswick". (Briefly the watershed management plan should cover water quality monitoring, assessment, reporting, public education, stakeholder engagement and stewardship initiatives.)	2018 and 2019	\$165,000 per year (\$330,000 over two years)	ELG
5. Conduct a hydraulic/ hydrology study at the "pond" at Parlee Beach Provincial Park to identify any remedial action that may be necessary to mitigate poor water quality in the pond and drainage creek.	2018	\$50,000	THC, consultant
6. Develop and validate a tool for predicting water quality, based on relevant environmental and meteorological data, which could be used by the Medical Officer of Health (MOH) to issue "No Swimming Advisories" at Parlee Beach. A predictive tool would address concerns with the 48-hour delay related to analyzing water quality samples.	2018	\$25,000	DH, consultant

7. Continue data collection by lifeguards (beachgoer numbers, air and water temperature, and boater numbers) to better understand the relationship between Parlee Beach activities and water quality.	2018	Existing departmental resources	THC
Recommendation from <i>Final Report - Parlee Beach Water Quality - Shediac, New Brunswick, March, 2018</i>¹	Timing	Preliminary Budget	Lead Agency*
8. To enhance swimmer safety and mitigate potential effects of motorized boats near Parlee Beach, implement the “people-powered recreation zone” delineated during stakeholder and public consultations conducted in August 2017.	2018	Existing departmental resources	THC
9. Continue the dog waste management / education program and expand to the entire Shediac Bay Watershed.	2018	\$20,000 (signage) \$15,000 (implementation) \$35,000 (total)	Red Dot Assoc. Inc.
10. Identify examples of stormwater quality management methods that are appropriate for the Shediac Bay Watershed that could be implemented by local communities.	2018	\$50,000 (initial study; not including capital costs of implementation)	ELG, Town of Shediac, LSDs, consultant
11. Engage the agricultural community to explore precautionary mitigative methods aimed at reducing the potential for bacteria from agricultural operations to enter Shediac Bay.	2018	Existing departmental resources	AAF
12a. Continue the boater education program	2018	Existing departmental resources	Shediac Yacht Club and the Pointe-du-Chêne Harbour Authority
12b. Subsidize, for one year, the use of pump-out facilities at the Shediac Yacht Club and the Pointe-du-Chêne Harbour Authority and improve tracking of the frequency of use of these facilities.	2018	\$10,000	Shediac Yacht Club and the Pointe-du-Chêne Harbour Authority.
13. Develop an education program aimed at operating and maintaining on-site sewage disposal systems in the Shediac Bay Watershed.	2018	\$25,000 (materials, brochures, etc.)	ELG, DH
14. Establish a Working Group to review the regulation and oversight of on-site sewage disposal systems, including inspection and enforcement, design standards, and options for ensuring that on-site sewage disposal systems are properly functioning and maintained.	2018	Use existing departmental resources to establish working group	ELG, DH, JPS

Estimated Total Cost (2018-2019)		\$595,000	
Estimated Total Cost (2019-2020)		\$165,000	
Grand Total		\$760,000	
Other Actions by Government Departments (in Addition to the 14 Recommendations in the Parlee Beach Report)	Date to Initiate	Preliminary Cost Estimate	Lead Agencies*
Best practices for beach wrack management at Parlee Beach	As required	Existing departmental resources	THC
Continued beach sand replenishment (beach nourishment) at Parlee Beach	As required	Existing departmental resources	THC
Improved wetland protection including amending the <i>Watercourse and Wetland Alteration Regulation</i> under the <i>Clean Water Act</i> to extend protection to coastal Provincially Significant Wetlands less than 1 hectare in size	By the end of 2020	Existing departmental resources	ELG
Obtain Blue Flag designation for Parlee Beach	On-going	Existing departmental resources	THC

*Notes:

AAF - Department of Agriculture, Aquaculture and Fisheries

DH - Department of Health

ELG - Department of Environment and Local Government

JPS - Department of Public Safety

LSD - Local Service District

THC - Department of Tourism, Heritage and Culture

The list of lead agencies is not necessarily exhaustive. Other partners may also be involved in the implementation of elements this work plan.