

# Clean Water and Waste Water Fund

Please complete all fields

## SECTION I - APPLICANT INFORMATION

### APPLICANT INFORMATION

Town of Parrsboro

Legal Name of Applicant

|               |                |                 |
|---------------|----------------|-----------------|
| 4030          | Eastern Avenue | 4030            |
| Street Number | Street Address | Apartment/Suite |
| 400           | Parrsboro      | Nova Scotia     |
| PO Box        | Municipality   | Province        |
|               |                | B0M 1S0         |
|               |                | Postal Code     |

### CONTACT INFORMATION

Language Preference       English       French

|                      |           |
|----------------------|-----------|
| Raymond              | Hickey    |
| First Name, Initials | Last Name |

Chief Administrative Officer

Contact's Position

|               |                |                 |
|---------------|----------------|-----------------|
| 4030          | Eastern Avenue | 4030            |
| Street Number | Street Address | Apartment/Suite |
|               | Parrsboro      | Nova Scotia     |
| PO Box        | Town           | Province        |
|               |                | B0M 1S0         |
|               |                | Postal Code     |

|               |     |              |
|---------------|-----|--------------|
| 902-254-2036  |     | 902-254-2313 |
| Telephone No. | Ext | Fax          |

rhickey@town.parrsboro.ns.ca

Email

### JOINT APPLICATION

Is this a joint application?       Yes       No

If No, please explain why a shared initiative is not appropriate:  
(If the space provided is not sufficient, please attach additional information as required)

The proposed project is a Wastewater Treatment Plant. This plant will exclusively serve residents of the Town of Parrsboro. However, this application is submitted with the full support of the County of Cumberland, whom Parrsboro will be joining November 1st, 2016.

SECTION II - PROJECT INFORMATION

PROJECT INFORMATION

PARRSBORO WASTEWATER TREATMENT PLANT AND NETWORK EXPANSION

Project Name

Please give an overview of the proposed project

The Project is the construction of a wastewater treatment plant, and expansion of the Town's wastewater collection network to include more homes. Currently, wastewater in Parrsboro is not treated and flows directly into the Bay of Fundy. The sewer network also only services approximately one third of Parrsboro homes. The proposed project would provide necessary treatment to the wastewater, and double the number of residents who can access the service.

PROJECT NATURE

Wastewater

Project Category

Drinking Water

To invest in water infrastructure that contributes to economic growth, a clean environment and stronger communities.

- Drinking water treatment infrastructure.
- Drinking water distribution systems (may include metering as part of a larger project).

Type of Project:

- New Construction
- Renewal
- Material Enhancement

Is this a multiphase project?

- Yes
- No

Public / Private Partnership

- Yes
- No

**PROJECT LOCATION**

|                                      |   |
|--------------------------------------|---|
| 140                                  | Two Islands Road                                    |
| Project Street Number                | Street Address                                      |
| Parrsboro                            | B0M 1S0   |
| Project Town                         | Postal Code   |
| Nova Scotia                          | Two Island Road/Main Street                         |
| Province                             | Project Nearest Intersection or Legal Land Location |
| Parrsboro Harbour                    |   |
| Project Point of Interest/Place Name | Other Project Location Information                  |
| 64°19'28.3"W                         | 45°24'04.1"N  |
| Project Latitude                     | Project Longitude                                   |

**PROJECT SCREENING**

|  |                                      |                                     |
|--|--------------------------------------|-------------------------------------|
| Is the project consistent with all applicable municipal by-laws?   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Will the project meet applicable provincial/federal regulations and permitting requirements?   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Has the project's design started?  | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Has the project's design been completed?   | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Has the project tender been called?  | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Has the project contract been awarded?   | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Has construction started?  | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Does the project involve federal or provincial owned assets or land?   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Is the project consistent with long-term regional and/or local development plans?  | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Will the project be planned constructed and operated in a manner that takes into account risks related to extreme natural events and/or climate change?  | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Is the project supported by the Municipal Climate Change Action Plan?  | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Is the project supported by a Cost-Benefit Analysis? If "Yes" please provide a copy.   | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Is the project supported by an Asset Management Plan? If "Yes" please provide a copy.  | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |
| Is the project supported by a Council Resolution ?<br><i>Please note : a copy of the Council Resolution (dated after April 1, 2016) must be submitted with your application.</i>   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Applicant confirms the project meets the incrementality requirement of the program. <i>Please note: an attestation by a senior delegated official of the municipality (CAO/Clerk Treasurer) must be attached to this application. "Project Incrementality" means a Project that would not otherwise have been undertaken in 2016-17 or 2017-18 and/or a Project that would not have been undertaken without federal funding.</i> | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |

Please identify the project's benefits. You will be required to report back on these.

### SECTION III - PROJECT OUTCOMES

|    | Project Benefits  | Quantity |
|----|---|----------|
| 1. | Number of systems that have improved the quality of wastewater effluent or storm water discharge    | 307      |
| 2. | Number of wastewater systems that have met or exceeded applicable regulations and guidelines a      | 307      |
| 3. | Number of wastewater systems that have increased their level of treatment as a result of funding    | 307      |
| 4. | Number of funded wastewater plans and studies that have resulted in identified capital projects tha | 2        |
| 5. |   |          |

Additional Benefits:

The Town of Parrsboro currently has a limited, untreated Sewer Network. Having an expanded Sewer network would make the community a much more appealing place to live. Treating the wastewater would have tremendous benefits to the environment. Beyond these clear, tangible benefits, there is additional value to the local economy, as a clean harbour could be a tourism asset and a local attraction. Further development could occur in the future with wastewater no longer polluting the beautiful coastal setting.

**SECTION IV - ADDITIONAL CATEGORY SPECIFIC INFORMATION / QUESTIONS**

**DRINKING WATER**

Has a source water protection / watershed management plan been developed?

Yes  No

Will there be any conservation measures in place to protect water sources?

Yes  No

Will the project raise drinking water quality to meet or exceed Federal/Provincial standards?

Yes  No

Does this project address critical capacity issues?

Yes  No

What was the date (year) of the last Water Rate Increase?

If the date of the last Water Rate increase is greater than 5 years ago, please explain the rationale for not seeking an increase in rates

Will full cost pricing supported by universal metering for water be in place? If "No", how will cost recovery be pursued and how will capital, operating and maintenance shortfalls be addressed?

**SECTION V - TIMELINES AND RATIONALE**

Please provide the anticipated date for each of the following project milestones.

Sep 1, 2016

Project Start Date (DD/MM/YY)

*The date at which the project's design was/will be started.*

Mar 31, 2018

Project End Date (DD/MM/YY)

*The date at which you will have deemed the project completed.*

May 1, 2017

Construction Start Date (DD/MM/YY)

*The date at which construction will start*

Mar 31, 2018

Construction End Date (DD/MM/YY)

*The date at which substantial completion will be achieved*

**PROJECT RATIONALE**

What are the specific problems that this project will address?

*This section should provide a synopsis of what is happening currently within the municipality or region and what might happen if no action is taken at this time. It should describe the history and the current state of affairs giving rise to the general problem and thus the need for the project.*

Parrsboro wastewater is currently untreated. A wastewater treatment plant will address this issue. If action is not taken, not only will Parrsboro harbour continue to be polluted, but the municipality will fail to meet Canadian Federal Wastewater Regulations that take effect in 2020.

How would your project address these specific problems?

*This section should indicate how the project would improve or fix the problem stated in the "Project Rationale" section. It should explain why Federal - Provincial funding is required to enable the project to proceed, increase its scope (size) or allow it to proceed earlier than originally planned.*

A wastewater treatment plant will completely address the issue of untreated sewer. Federal-Provincial funding is required as the municipality simply can not afford to build the plant only in time to meet Federal 2020 Wastewater Regulations.

What alternatives to the proposed solution have been considered?

All options for a sewage treatment plant have been considered, such as mechanical systems or lagoon systems. However, no options have been considered that do not involve building a sewage treatment plant, as this plant must be built.

Does this project contribute to a sustainable community?

Yes, wastewater treatment is vital to an environmentally sustainable community.

Describe any innovative technology that will be employed during the realization of the project.

*Provide details on the technology to be incorporated into the proposed project. Focus on new approaches, best practices and whether the project uses the best available technologies (that are economically feasible) or innovation to address the problem.*

The latest technology of mechanically treated wastewater systems is being proposed for the project. Since the proposed project is to be located in the heart of the downtown Parrsboro community, a discrete wastewater system is the most desirable. A modern SBR treatment plant should blend in with the surrounding area and provide clean water entering the harbour and be odor-free to neighbor

What are the significant project risks and what is your strategy to mitigate those risks?

*Risks are uncertainties or constraints that may prevent the project from completing on time, on budget, or in its original scope. Indicate any known risks (such as short construction season, possible uncertainties in building site that might influence cost, etc.) and specify how those uncertainties may impact the performance of the project, either in duration, cost, or in meeting the requirements. Then indicate what actions will be taken in advance or during the project to reduce the effect of the risk(s) (mitigation).*

One of the reasons the SBR system is the preferred option for Parrsboro is risk mitigation. Other options, such as lagoon systems, can encounter problems if the soil on site is not as expected, greatly increasing costs.

A geotechnical analysis of the ground on the preferred site has already been conducted, and the site is suitable.

The biggest risk going forward would be potential coastal erosion at the proposed site, but we will take all necessary steps to strengthen the coast line.

How will the operation and maintenance of this infrastructure be done and financed?

*Indicate who will own the infrastructure involved in this project and how it plans to finance the associated operating and maintenance costs.*

Operation and maintenance will be handled by the Parrsboro Public Works department. It will be funded through user fees from wastewater customers.

How will the project contribute to economic growth, a clean environment and stronger communities?

*Indicate how the project will benefit Canadians by contributing to economic growth, a clean environment and stronger communities.*

The project will have a significant impact on economic growth, by allowing proper development of the Parrsboro waterfront. The coastal scenery and beaches are a major attraction for the community, and having clean water vastly improves its value. The environment will obviously see a significant benefit from the treatment of wastewater, and overall the community will become a stronger, more desirable place to live.



**SECTION VI - PROJECT COSTS**

Please Note: You are required to provide a detailed cost estimate with your application.

| <b>Eligible Costs:</b>       | <b>Amount</b>         |
|------------------------------|-----------------------|
| - Environmental Costs        | \$0.00                |
| - Design / Engineering Costs | \$759,000.00          |
| - Construction Costs         | \$5,759,500.00        |
| - Contingency Costs          | \$1,151,500.00        |
| - Other, Specify:            | \$0.00                |
| - Other, Specify:            | \$0.00                |
| - Taxes (HST)                | \$1,150,500.00        |
| <b>Gross Eligible Costs</b>  | <b>\$8,820,500.00</b> |
| Tax Rebate                   | \$821,760.73          |
| <b>Net Eligible Costs</b>    | <b>\$7,998,739.27</b> |

**COST ESTIMATE CERTIFICATION**

Please indicate who has prepared the project cost estimates, as well as the date the estimates were verified.

Name:

Date:

Have the estimates been adjusted to reflect current year dollars?

Yes

No

**PROPOSED FINANCING OF ELIGIBLE COSTS**

| Fiscal Year  | Municipal Sources | Provincial (SCF) | Federal (SCF)  | Other  | Totals         |
|--|-------------------|------------------|----------------|--------|----------------|
| 2016-17  | \$1,999,684.82    | \$1,999,684.82   | \$3,999,369.64 | \$0.00 | \$7,998,739.28 |
| 2017-18  | \$0.00            | \$0.00           | \$0.00         | \$0.00 | \$0.00         |
| <b>Total</b>   | \$1,999,684.82    | \$1,999,684.82   | \$3,999,369.64 | \$0.00 | \$7,998,739.28 |
| <b>% of Costs</b>  | 25%               | 25%              | 50%            | 0%     |                |
| Specify Other Funding Source 1:  |                   |                  |                |        |                |
| Other Funding Amount1:   | \$0.00            |                  |                |        |                |
| Specify Other Funding Source 2:  |                   |                  |                |        |                |
| Other Funding Amount2:   | \$0.00            |                  |                |        |                |
| Specify Other Funding Source 3:  |                   |                  |                |        |                |
| Other Funding Amount 3:  | \$0.00            |                  |                |        |                |
| Total funding from other sources:  | \$0.00            |                  |                |        |                |
| <i>Please note: Under the Clean Water and Wastewater Fund, the maximum federal contribution from all sources will be fifty percent (50%) of the total eligible costs of a project.</i> |                   |                  |                |        |                |

| <b>OTHER PROJECT FINANCING</b>  |   |
|---|---|
| Will the project require the borrowing funds?   | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Will the project be for the benefit of commercial operations only?  | <input type="radio"/> Yes <input checked="" type="radio"/> No |
| Do you have a plan to fund, operate, and maintain the asset over its lifecycle?   | <input checked="" type="radio"/> Yes <input type="radio"/> No |
| Will the contract award process be competitive, fair, and transparent (e.g., no sole-source contracts, no union-only processes) and consistent with the Agreement on Internal Trade and Canada's international trade obligations? | <input checked="" type="radio"/> Yes <input type="radio"/> No |

**SECTION VII - ENVIRONMENTAL ASSESSMENT**

**ENVIRONMENTAL CONSIDERATIONS**

|  |                                      |                                     |
|--|--------------------------------------|-------------------------------------|
| Does the project involve works described in the <i>Regulations Designating Physical Activities</i> of the Canadian Environmental Assessment Act, 2012? | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Does the project involve works or activities on, under, over, through or across a water body such as a wetland, stream, river or lake?                 | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Does the project involve works or activities within 30 metres of a water body?   | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Does the project involve physical works or activities involving the likely release of a polluting substance into a water body?                         | <input checked="" type="radio"/> Yes | <input type="radio"/> No            |
| Has a provincial Environmental Impact Assessment been carried out for this project?<br><br>If "Yes" please provide the EIA #: _____                    | <input type="radio"/> Yes            | <input checked="" type="radio"/> No |

**ENVIRONMENTAL ASSESSMENT CONTACT INFORMATION**

Indicate who should be contacted for questions regarding the environmental assessment requirements.

|                            |  |
|----------------------------|--|
| <b>Name of EA Contact:</b> |  |
| <b>Position:</b>           |  |
| <b>Address:</b>            |  |
| <b>Phone Number:</b>       |  |
| <b>Email:</b>              |  |

**ABORIGINAL CONSIDERATIONS**

|  |                           |                                     |
|--|---------------------------|-------------------------------------|
| Are there Aboriginal groups or communities in the area?<br>If so, please list them.  | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| •  |                           |                                     |
| •  |                           |                                     |
| •  |                           |                                     |
| •  |                           |                                     |
| •  |                           |                                     |
| Could the project have adverse effects on those Aboriginal groups' ability to hunt, fish, gather or continue use of the land and resources for traditional purposes? | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Have the Aboriginal groups been consulted about the project?   | <input type="radio"/> Yes | <input checked="" type="radio"/> No |
| Will the project have adverse impacts on established or potential Aboriginal Treaty rights?  | <input type="radio"/> Yes | <input checked="" type="radio"/> No |

**DECLARATION**

By checking this box I certify that the information stated in this application is truthful and accurate and the required documentation is being submitted with this application.

Raymond Hickey

Jun 24, 2016

Name

Date (DD/MM/YY)

Chief Administrative Officer

Title

Required Documents:

- Council Resolution
- Detailed Estimate
- Project Site Map
- Relevant Studies
- Incrementality Attestation

**SUBMISSION INSTRUCTIONS**

Please complete all fields.  
You may then save this form.  
If you require assistance or have questions please contact:

**Ahmad Shahwan, P.Eng.**  
**(902) 424-5676**  
**Ahmad.Shahwan@novascotia.ca**