

Wastewater Treatment Infrastructure Project (ICIP) \$97,895,574

Federal / Provincial Funding Approved

There are three core components to the Wastewater application under the ‘Investing in Canada Infrastructure Program’ (ICIP):

- Design and construct the two high-risk wastewater systems in Glace Bay and Port Morien,
- Replace the Battery Point UV Disinfection System, and
- Installation of UV disinfection systems at four existing wastewater treatment lagoons.

Federal Wastewater System Effluent Regulations (WSER) have been enforced since 2012. There is now an immediate need to address high-risk wastewater systems which have a compliance deadline of December 31st, 2020. This deadline cannot be achieved, however CBRM must continue working towards the goal of wastewater compliance by taking advantage of funding opportunities when they are available. With the completion of the ERA and Preliminary Design Project expected by March 31st, 2020, CBRM is now in position to transition into detailed design and construction of the high-risk system.

The final stage of treatment at the Battery Point Wastewater Treatment Plant is disinfection. The disinfection equipment at this site consists of a Trojan UV 4000plus system which is now discontinued and has reached the end of its useful life. To maintain adequate disinfection and to avoid the possibility of a major equipment failure and process upset the UV systems at Battery Point needs to be replaced. The proposed UV replacement project will occur during the 2020-21 fiscal year.

Disinfection upgrades at four of our Wastewater Treatment Lagoons are necessary due to upcoming Federal regulations for residual chlorine – Deadline January 1st, 2021. Although CBRM will not meet this deadline for two of the four sites, this project will set the trajectory to become compliant. This component of the project will be delivered during the 2020-21 fiscal year.

The total estimated project cost is \$97.9M and is expected to be delivered over the next seven (7) fiscal years. Infrastructure Canada and the Province of NS have agreed to fund 100% of the total project cost.

Current Fiscal Breakdown

2019-20 actual expenditure = \$0

2020-21 total estimated expenditure =7,748,404

2021-22 total estimated expenditure = 9,020,520

2022-23 total estimated expenditure = 18,721,279

2023-24 total estimated expenditure = 15,486,259

2024-25 total estimated expenditure = 15,639,704

2025-26 total estimated expenditure = 15,639,704

2026-27 total estimated expenditure = 15,639,704

Total Funding Breakdown			Current Fiscal Breakdown
Funding Source	Amount	Percentage	Amount
Canada	39,158,230	40	3,099,362
NS	58,737,344	60	4,649,042
CBRM	-	-	-

ICIP Cash Flow

ICIP - Green Stream

Funding Partner	GLACE BAY WASTEWATER TREATMENT SYSTEM															
	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028	2020/2021	2021/2022	2022/2023	2023/2024	2024/2025	2025/2026	2026/2027	2027/2028
TOTAL	\$ 34,298,564	\$ 2,608,208	\$ 5,928,208	\$ 6,194,504	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 800,000	\$ 2,608,208	\$ 5,928,208	\$ 6,194,504	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882
CANADA - 40% of "Eligible" costs	\$ 51,447,847	\$ 3,912,312	\$ 8,892,312	\$ 9,291,755	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 1,200,000	\$ 3,912,312	\$ 8,892,312	\$ 9,291,755	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822
NOVA SCOTIA - 33.33% of "Eligible" costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CBRM - 26.67% of "Eligible" cost + land acq. Costs	\$ 85,746,411	\$ 6,520,520	\$ 14,820,520	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 2,000,000	\$ 6,520,520	\$ 14,820,520	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704
TOTAL	\$ 85,746,411	\$ 6,520,520	\$ 14,820,520	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 2,000,000	\$ 6,520,520	\$ 14,820,520	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704
Funding Partner	PORT MORIEN WASTEWATER TREATMENT SYSTEM															
TOTAL	\$ 3,360,304	\$ 1,000,000	\$ 1,560,304	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 800,000	\$ 1,000,000	\$ 1,560,304	\$ -	\$ -	\$ -	\$ -	\$ -
CANADA - 40% of "Eligible" costs	\$ 5,040,455	\$ 1,500,000	\$ 2,340,455	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,200,000	\$ 1,500,000	\$ 2,340,455	\$ -	\$ -	\$ -	\$ -	\$ -
NOVA SCOTIA - 33.33% of "Eligible" costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CBRM - 26.67% of "Eligible" cost + land acq. Costs	\$ 8,400,759	\$ 2,500,000	\$ 3,900,759	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,500,000	\$ 3,900,759	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 8,400,759	\$ 2,500,000	\$ 3,900,759	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	\$ 2,500,000	\$ 3,900,759	\$ -	\$ -	\$ -	\$ -	\$ -
Funding Partner	BATTERY POINT UV															
TOTAL	\$ 589,541	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 589,541	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CANADA - 40% of "Eligible" costs	\$ 884,312	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 884,312	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVA SCOTIA - 33.33% of "Eligible" costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CBRM - 26.67% of "Eligible" cost	\$ 1,473,853	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,473,853	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 1,473,853	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,473,853	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Funding Partner	LAGOON UPGRADES (MEADOWBROOK, CENTERVILLE, SOUTHWEST BROOK, TOWER ROAD)															
TOTAL	\$ 909,820	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 909,820	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CANADA - 40% of "Eligible" costs	\$ 1,364,731	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,364,730.60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NOVA SCOTIA - 33.33% of "Eligible" costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CBRM - 26.67% of "Eligible" cost	\$ 2,274,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,274,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL	\$ 2,274,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,274,551	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Funding Partner	Summary															
Total	\$ 39,158,230	\$ 3,099,362	\$ 7,488,208	\$ 6,194,504	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 3,099,362	\$ 3,608,208	\$ 7,488,208	\$ 6,194,504	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882	\$ 6,255,882
Total cost - Canada	\$ 58,737,344	\$ 4,649,042	\$ 11,232,767	\$ 9,291,755	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 4,649,042	\$ 5,412,312	\$ 11,232,767	\$ 9,291,755	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822	\$ 9,383,822
Total cost - Nova Scotia	\$ 97,895,574	\$ 7,748,404	\$ 18,721,279	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 7,748,404	\$ 9,020,520	\$ 18,721,279	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704
Total funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total cost - CBRM	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL CASH FLOW	\$ 97,895,574	\$ 7,748,404	\$ 18,721,279	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 7,748,404	\$ 9,020,520	\$ 18,721,279	\$ 15,486,259	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704	\$ 15,639,704

2020 Piped Infrastructure Program "ICIP" – Phase 1

CBRM has 56 Piped Infrastructure Projects identified under the "ICIP" - Federal / Provincial Cost Share Program.

Province of Nova Scotia has communicated 100% funding for **PHASE 1** (13 Piped Infrastructure Projects) under the "Northern & Rural Communities Infrastructure Stream" of the New Building Canada – Investing in Canada Infrastructure Plan (ICIP).

This Program is funded at 50% Federal & 50% Provincial for all eligible costs.

2020-2021 = \$8,000,000

2021-2022 = \$9,750,000

2022-2023 = \$9,750,000

2023-2024 = \$9,750,000

2024-2025 = \$9,995,000

PROGRAM TOTAL = \$47,500,000

PHASE 1 Piped Infrastructure Projects - \$8,000,000

Union Street – Reserve to Commercial (Glace Bay) – Waterline, Storm Sewer, Road Reconstruction

Phalen's Road – Civic 360 to Main (Glace Bay) – Waterline, Storm Sewer, Road Reconstruction

King Edward Street (Glace Bay) – Sanitary Manholes, Road Reconstruction

McKeen Street – Main to Sterling (Glace Bay) - Sanitary Manholes, Road Reconstruction

Connaught Avenue "Phase 3" – Wallace to West (Glace Bay) - Sanitary Manholes, Road Reconstruction

Highland Street – Park to Grove (Glace Bay) - Waterline, Storm Sewer, Road Reconstruction

Connaught Avenue "Phase 1" – Civic 151 to Woodward (Glace Bay) - Storm Sewer, Road Reconstruction

Mechanic Street – Reserve to Park (Glace Bay) – Sanitary Manholes, Road Reconstruction

Dominion Street – Highland to MacLeod (Glace Bay) - Sanitary Manholes, Road Reconstruction

Brookside Street – Dominion to Commercial (Glace Bay) - Sanitary Manholes, Road Reconstruction

Gannon Street – Nolan to Reserve (Glace Bay) - Storm Sewer, Sidewalk, Road Reconstruction

Connaught Avenue "Phase 2" – Woodward to Wallace (Glace Bay) - Storm Sewer, Road Reconstruction

Wallace Road – Poloni to Connaught (Glace Bay) - Storm Sewer, Sidewalk, Road Reconstruction

FUTURE PHASES - Piped Infrastructure Projects - \$39,500,000

CENTRAL DIVISION

Atlantic Street	Sydney	Water, Road
George St (Ph. 2 of 3)	Sydney	Water, Storm, Road
Bentinck St. Culvert	Sydney	Culvert
Prince Street	Sydney	Water, Storm, Road
Forrest St.	Sydney	Water, Road
George Street (Ph 3 of 3)	Sydney	Water, Storm, Road

Charlotte Street(Ph 1 of 3)	Sydney	Water, Storm, Road
Bay Street	Sydney	Water, Road
Charlotte Street (Ph 2 of 3)	Sydney	Water, Road
Argyle Street (Ph 1 of 2)	Sydney	Culvert
Cossitt Strteet	Sydney	Water, Road
Sutherland Street	Sydney	Water, Road
Cornishtown Road	Sydney	Water, Road
South Bentinck	Sydney	Water, Road
St. Albans Street	Sydney	Water, Road
Charlotte Street(Ph 3 of 3)	Sydney	Storm, Road
Argyle Street (Ph 2 of 2)	Sydney	Water, Road
Whitney Avenue	Sydney	Water, Road
Dorchester Street	Sydney	Water, Storm, Road
Cross Street	Sydney	Water, Road
Davenport Road	Sydney	Water, Road
St. Peters Road	Sydney	Water, Road

NORTH DIVISION

Main Street west	Sydney Mines	Water, Storm, Road
Church Street	Sydney Mines	Water, Storm, Road
King Street	North Sydney	Water, Storm, Road
Vale Street	North Sydney	Water, Road

EAST DIVISION

Dominion Street	Dominion	Water, Storm, Road
Water Storage tank	Louisbourg	Water
Wilson Avenue	New Waterford	Water, Storm, Road
MacAskill's Dam Spillway	Tower Road	Water Spillway
Fletcher Street	Glace Bay	Water, Storm, Road
Seaview Street	Glace Bay	Water, Road
Hickman Street	Glace Bay	Culvert
Bay Street	Glace Bay	Culvert
Dorchester Street	Glace Bay	Water, Storm, Road
Pleasant Street	Dominion	Water, Storm, Road
Hudson Street	New Waterford	Water, Storm, Road
York Street	Glace Bay	Culvert
David Street	Glace Bay	Water, Road
King Street	New Waterford	Sanitary Sewer
Centre Ave	Glace Bay	Water, Storm, Road
Ellsworth Avenue	New Waterford	Water, Road
8 th Street	New Waterford	Water, Road