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

<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Amount</th>
<th>Percentage</th>
<th>Current Fiscal Breakdown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>39,158,230</td>
<td>40%</td>
<td>3,099,362</td>
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<tr>
<td>NS</td>
<td>58,737,344</td>
<td>60%</td>
<td>4,649,042</td>
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<tr>
<td>CBRM</td>
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</table>
### ICIP Cash Flow

#### Funding Partner Costs

<table>
<thead>
<tr>
<th>Funding Partner</th>
<th>TOTAL</th>
<th>2020/2021</th>
<th>2021/2022</th>
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<th>2027/2028</th>
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</thead>
<tbody>
<tr>
<td>CANADA - 40% of &quot;Eligible&quot; costs</td>
<td>$34,289,564</td>
<td>$800,000</td>
<td>$2,608,208</td>
<td>$6,598,208</td>
<td>$6,124,504</td>
<td>$6,255,882</td>
<td>$6,255,882</td>
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</tr>
<tr>
<td>NOVA SCOTIA - 33.33% of &quot;Eligible&quot; costs</td>
<td>$51,447,847</td>
<td>$1,200,000</td>
<td>$3,912,312</td>
<td>$8,892,312</td>
<td>$9,951,754</td>
<td>$9,383,822</td>
<td>$9,383,822</td>
<td>$9,383,822</td>
<td>$9,383,822</td>
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<tr>
<td>CBRM - 26.67% of &quot;Eligible&quot; cost + land aqc. Costs</td>
<td>$ -</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$85,746,411</strong></td>
<td><strong>$2,000,000</strong></td>
<td><strong>$6,520,520</strong></td>
<td><strong>$14,820,520</strong></td>
<td><strong>$15,485,259</strong></td>
<td><strong>$15,639,704</strong></td>
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<tbody>
<tr>
<td>CANADA - 40% of &quot;Eligible&quot; costs</td>
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<td>$1,400,000</td>
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<tr>
<td>NOVA SCOTIA - 33.33% of &quot;Eligible&quot; costs</td>
<td>$8,040,456</td>
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<tr>
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<td>CANADA - 40% of &quot;Eligible&quot; costs</td>
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<tr>
<td>NOVA SCOTIA - 33.33% of &quot;Eligible&quot; costs</td>
<td>$884,312</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</thead>
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<tr>
<td>CANADA - 40% of &quot;Eligible&quot; costs</td>
<td>$909,820</td>
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<tr>
<td>NOVA SCOTIA - 33.33% of &quot;Eligible&quot; costs</td>
<td>$1,366,731</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$2,276,551</strong></td>
<td><strong>$2,276,551</strong></td>
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Total cost - Canada: $70,045,294
Total cost - Nova Scotia: $83,926,579
Total cost - CBRM: $2,276,551
Total funding: $145,658,324
Total - CBRM: $2,276,551

### Summary

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**Total - CBRM** | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 | $2,276,551 |
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 560 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  
George St (Ph. 2 of 3)  
Bentinck St. Culvert  
Prince Street  
Forrest St.  
George Street (Ph 3 of 3)  
Sydney  
Sydney  
Sydney  
Sydney  
Sydney  
Sydney  
Water, Road  
Water, Storm, Road  
Culvert  
Water, Storm, Road  
Water, Road  
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 Street  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
MacAskil’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
8th Street  New Waterford  Water, Road