

CANADA'S
MUSICAL
COAST
Inverness County



Projects Overview - Inverness

PROJECT NAME & TASKS	PROJECT DESCRIPTION	START DATE	DUE DATE
<p align="center">Inverness Growth Management Strategy</p>	<p>The scope of work will establish recommendations for interventions and/or policy changes that can be implemented and/or adopted by the Municipality to better manage and leverage growth and development within the Community of Inverness and improve community livability.</p>	<p>2020-03-01</p>	<p>2020-12-14</p>
<p>Phase 1: Understanding the Issues Phase 2: Engaging Stakeholders/ROI Analysis Phase 3: Developing the Strategy, Land Suitability Analysis, Water Modelling Study integration</p>			
<p align="center">Inverness WWTP & Collection System- System Assessment Report and Pre-Design Study</p>	<p>The purpose of the project is to carry out a System Assessment Report and Pre-Design Study of the Inverness Wastewater Treatment Plant and Collection System to help determine necessary upgrading works in order to meet regulatory compliance and have capacity to accommodate long term growth, mitigating odor and noise complaints. Prioritize linear renewals based on capacity to accommodate flows and condition of the infrastructure.</p>	<p>2020-04-17</p>	<p>2020-11-30</p>
<p>Phase 1: Project Administration & Management Phase 2: Assets & Authorizations Phase 3: Optimization & Asset Management Phase 4: Develop Design Parameters Phase 5: Option Evaluation, Professional Recommendation Phase 6: Preliminary Design of Preferred System</p>			
<p align="center">J-Class Roads</p>	<p>Cost shared program (NSTIR/MOCI) for paving of subdivision (J-Class) streets for fiscal year 2020/2021.</p>	<p>Ongoing</p>	<p>Ongoing</p>
<p>Phase 1: Municipal staff review condition of linear infrastructure Phase 2: Municipal staff work with engineering consultants for linear infrastructure upgrades Phase 3: Municipal Council submits roads for consideration Phase 4: Municipal Council reviews approved projects and accepts projects to advance based on condition, preparedness and feasibility Phase 5: Linear infrastructure upgrades are subcontracted out. Phase 6: Municipal staff will coordinate and collaborate with NSTIR on tendering and construction</p>			

Recapitalization of Central Avenue		2020-01-03	2021-11-30
<p>Phase 1: Coordinating with NSTIR</p> <p>Phase 2: Engineering and costing of linear infrastructure and active transportation upgrades</p> <p>Phase 3: Engagement of regulatory bodies and stakeholders i.e. NSP & Eastlink</p> <p>Phase 3: Council review and community engagement</p> <p>Phase 4: Municipal staff will coordinate and collaborate with NSTIR on tendering and construction</p>	<p>The Municipality will coordinate with NSTIRs planned paving of Central Avenue. Working with engineering consultant's linear infrastructure, active transportation upgrades will be designed and budgeted for council review and consideration for budget purposes. Municipal staff will coordinate with NSTIR on the tender and construction process.</p>		
Possible Service Extensions		Ongoing	Ongoing
<p>Phase 1: Work with Developers to determine needs</p> <p>Phase 2: Work with Engineering consultants to determine scope, capacity, design and costing</p> <p>Phase 3: Work with consultants to determine ROI</p> <p>Phase 4: Presentation to Municipal Council for review, consideration, budgeting and prioritization.</p>	<p>The purpose of the project is to work with interested developers and community residents interested in residential and commercial development to identify and investigate the feasibility of service extensions.</p>		
Water Modelling Study		2020-06-11	2020-10-31
<p>Phase 1: Establish baseline, data review, data gap analysis, hydraulic model development and validation, defining level of service objectives.</p> <p>Phase 2: Hydrant Flow Testing</p> <p>Phase 3: Problem, opportunity and solution: evaluating water system performance, identifying upgrades required to meet levels of service. Analyze and identify existing system deficiencies under the following categories water quality, pressure, fire flow and growth.</p> <p>Phase 3: Final Report</p>	<p>To better understand the current system's operational capacity for providing domestic water and fire protection, as well as to identify opportunities & potential upgrades that may be required in support of potential future development opportunities within the water service area.</p>		

<p align="center">Inverness Wellfield Development & Improvement Program</p>	<p>To ensure ongoing, compliant access to potable water for current and future service populations.</p>	<p>Ongoing</p>	<p>Ongoing</p>
<p>Phase 1: Work with regulatory bodies and ensure continued and increased access to potable, compliant water source to serve existing population and enhance capacity for growth</p> <p>Phase 2: Work with Engineering consultants to determine scope, timeline and budget</p> <p>Phase 3: Undertake ongoing monitoring and wellfield enhancement and development work</p>		<p>2019-10-31</p>	<p>2020-11-30</p>
<p align="center">Generator Project</p> <p>Phase 1: Municipality tendered the work.</p> <p>Phase 2: Electrical and panel upgrades completed</p> <p>Phase 3: Installation of generators, ATS and surge protection at 95%</p> <p>Phase 4: Inspections, load testing, commissioning and staff training</p>		<p>To investigate, consult and develop an organizational sludge management plan in compliance with the InfraGuide's Best Practices for biosolids management and wastewater treatment plant optimization. The preferred method of sludge removal will be based on many factors including but not limited to operational ease, operational costs, life cycle costs, end-product usage and will be economically, socially, and environmentally beneficial.</p>	<p>2020-08-15</p>
<p align="center">Biosolids Management Plan</p> <p>Phase 1: Review current practices</p> <p>Phase 2: Forecast future production</p> <p>Phase 3: End use and options evaluation</p> <p>Phase 4: Final plan</p>			

<p align="center">Outfall Inspection</p>	<p>These inspection program reports will be used by Municipal Engineering Consultants to make repair recommendations, to ensure no risk to public health and safety, regulatory compliance, life span and capacity to accommodate future peak flows.</p>	<p align="center">2020-09-01</p>	<p align="center">2020-09-30</p>
<p>Phase 1: Municipality collected estimates and contracted the work out to Atlantic Sub Sea, for Inverness and Whycocomagh ROV & Diving inspection of the WWTP Outfalls.</p> <p>Phase 2: Work is underway this week in Whycocomagh and next week for Inverness.</p> <p>Phase 3: Report will inform necessary repairs and upgrades.</p>			
<p align="center">Flushing & CCTV Program Priority Streets in Inverness</p>	<p>To undertake a Flushing & CCTV program of the sanitary sewer pipes on priority streets in the community of Inverness to confirm pipe conditions and priorities for replacement.</p>	<p align="center">2020-09-01</p>	<p align="center">2020-11-30</p>
<p>Phase 1: RFP & Tender</p> <p>Phase 2: Advance the work</p> <p>Phase 3: Final Report</p>			
<p align="center">Geothermal Prefeasibility Study</p>	<p>To investigate the potential of a Mine Water Heat Network in the community of Inverness.</p>	<p align="center">2019-10-01</p>	<p align="center">2020-03-31</p>
<p>Phase 1: Municipality collected estimates and contracted the work out to Townrock Energy.</p> <p>Phase 2: High level investigation conducted</p> <p>Phase 3: Final report & recommendations</p>			

Successful Special Projects - Fund Generation 2018-2020
20-month period

Tourism Revitalization of Icons Program

Brand & Signature Spaces Project

ICIP Whycocomagh WWTP

Provincial Capital Assistance Program

Beautification & Streetscaping Program

Flood Risk Infrastructure Investment Program

Low Carbon Communities Funding

Community Works Program

\$9,335,117.00

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Project Update

Veteran's Memorial Court

Estimation of Cost

Cost Summary

Cost

Surface Works	\$1,243,057.25
Water System	\$793,079.10
Wastewater System	\$976,522.50
Storm Sewer	\$609,433.88
J-Class Road Repaving Municipal Cost Share	\$55,000.00
Subtotal	\$3,677,092.73
Design Contingency	\$183,854.64
Total	\$3,860,947.36

Return on Investment Analysis (ROI)

- In addition to the existing Scope of Services, for the Inverness Growth Management Strategy, the Municipality has engaged Turner Drake and Upland Planning & Design to perform a Return on Investment (ROI) analysis of a possible extension of 'Veterans Memorial Court' including its subterranean services from its current official end point in the vicinity of Civic# 52 to the edge of Property PID#50131887.
- The main objective of the additional services is to establish the financial viability of this infrastructure project, including a break-even point or a fair cost contribution for abutting property owners.
- Turner Drake & Partners will add revenue calculations, derived from analysis of property assessments in Inverness (and other communities if required), to estimate assessed values of potential development, as well as trends in assessment over time following construction. This will be combined into a *Discounted Cash Flow Analysis* in order to analyze the fiscal impact on the municipality, having regard for the timing of costs and revenues. These models will identify break-even points and/or necessary contributions from abutting property owners.

Next Steps

1

Complete the Water Modelling Study to determine capacity for expansion.

2

Complete the SAR & Pre-Design Study of the WWTP & Collection System to determine capacity for expansion.

3

Complete the Land Suitability Analysis & the Return on Investment Analysis.

4

Develop a Capital Plan to prioritize work and investment.

5

Apply for funding to help offset the cost of investment.

6

Decide on developer/cost share ratios.