

Town of Erin

Water Resource Recovery Facility (WRRF)

Presentation to the Region of Peel Council
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Our commitment to the community

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**Protection of our environment
remains at the forefront**

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**A sustainable solution to an
unsustainable system**

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**Stakeholder and community
engagement throughout the project**

Approved Environmental Assessment

- The project has been planned using the very thorough Municipal Class Environmental Assessment process and was approved by the Ministry of the Environment, Conservation and Parks (MECP)
- The Town received formal response from MECP on August 29, 2019 allowing the project to proceed
- The EA included an Assimilative Capacity Study & Thermal Impact Assessment of the West Credit River
- These studies and reports were taken into consideration when the effluent limits and objectives were determined
- The Erin WRRF will adhere to one of the strictest effluent requirements in North America
- The approved Erin WRRF limits the maximum urban growth to a population of 14,500 people

Project Highlights

- The full build out of the Erin WRRF is 7.2 million litres
- Full build out flow will occur in stages
- The treated water from the Erin WRRF will be treated using ultrafiltration membranes
- The Erin WRRF is designed with several mitigation measures to reduce solar or temperature gain such as:
 - Reflective coatings for aeration pipes
 - Underground tanks or partially below grade tanks
 - A 2 km effluent forcemain from the plant to the West Credit River to allow for additional oxygen to dissolve and for the effluent temperature to lower further

Monitoring

- The Town and WSP are working closely, hand in hand, with MECP and CVC, to jointly develop a Receiver Monitoring Plan. The plan will include monitoring of parameters such as temperature, dissolved oxygen, nitrogen, phosphorus and ammonia both upstream and downstream of the Erin WRRF outfall
- Additionally, fish monitoring and Benthic monitoring, which are good indicators of the health of the river, will be undertaken at the upstream and downstream monitoring locations
- The collected data will be compiled into a report and made publicly accessible on the Town's website
- The Report will be reviewed jointly with MECP and CVC to identify and implement, if required, mitigation measures to protect the West Credit River
- The above is in addition to the monitoring of the effluent at the Erin WRRF, before it reaches the West Credit River

Conclusion

- Town of Erin is committed to ensuring, protecting and managing the natural resources of the West Credit River and its ecosystem
- The Erin WRRF is a key infrastructure project that is required for the sustainable growth of the community and to discontinue the use of septic tanks to avoid possible groundwater contamination
- We are fully dedicated to ensuring that the protection of our environment remains at the forefront of our discussions as this project moves forward



Thank you

For information about the Town of Erin wastewater project, please visit www.erin.ca

