Municipal Class Environmental Assessment Study: Water and Wastewater Servicing in the Nobleton Community

Public Consultation Centre 2 Summary Report

November 25, 2020
Microsoft Teams Live Event

Prepared for: The Regional Municipality of York

Prepared by: LURA Consulting

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A. Introduction

I. PCC Background

The second Public Consultation Centre (PCC) for the Water and Wastewater Servicing Municipal Class Environmental Assessment (EA) for the Nobleton Community was held online on Wednesday, November 25, 2020. The open house event was hosted virtually by York Region via Microsoft Teams Live Events. Participants were provided with the option to join through the internet or phone.

The purpose of the PCC was to present the water/wastewater servicing alternatives that were considered, share the evaluation of these alternatives, present the recommended solutions, and obtain public input on the alternatives and proposed solutions. The PCC provided participants with an opportunity to learn more about the project and engage with members of the project team through various means, including:

- Viewing one of three sessions hosted throughout the day at 10 AM, 2 PM, and 7 PM, which included:
    - Watching a recorded presentation on the evaluation of servicing alternatives and recommended servicing solutions (identical in each session)
    - Participating in a facilitated question and answer period (informed by public questions)
- Completing an online survey
- Viewing presentation boards and supporting materials posted online
- Providing feedback directly to York Region's Project Manager

The PCC was attended by approximately 60 participants across all three sessions.

II. PCC Briefing

A briefing document was prepared following the PCC. This document provides a high-level summary of the open house. It describes:

- The purpose of the event
- The engagement opportunities available to participants at the event
- A summary of comments and questions received during the open house.

A copy of the PCC briefing document is provided in **Appendix A.**

B. Notices & Distribution

I. Notices

A Notice of Open House was first distributed to residents and stakeholders on November 12, 2020, through email, mail, and on the York Region website. The Notice was also published on the Region's social media accounts on the following dates:

- York Region's Twitter page on November 12, 19 and 24, 2020
- York Region's Facebook page on November 12, 2020 as a boosted, geotargeted post for two weeks.

The Notice was also published in the local newspaper, *King Connection*¸ on November 12 and 19, 2020.

A copy of the Notice is attached in **Appendix B**.

II. Distribution List

Notices were sent via mail or email to: various municipal and provincial governments and agencies; utilities; community associations; private companies; and First Nation groups. Notices were also sent to properties located within the study area (Figure 1). Residents who requested to be added to the mailing list were also sent the Notice.

Figure 1: A map illustrating the study area, service area, and existing Regional infrastructure.

C. Participants

A total of **36 participants** joined the PCC across the three sessions, either virtually or by phone.

D. PCC Summary

PCC 2 was hosted virtually by York Region via a Microsoft Teams Live Event. The PCC was held as a series of three 1-hour long town hall-style events throughout the day at 10 AM, 2 PM, and 7 PM. The PCC was attended by approximately 60 participants across all three sessions. Of the 60 participants, most joined virtually via Microsoft Teams Live, and nine joined via telephone. The PCC was attended by municipal staff, consultants, and interested members of the public. Identical video presentations were shared at each session. All digital materials were made available online on York Region's website, at www.yorkregion.ca/nobletonea. Each PCC session featured a 17-minute video presentation that provided:

- context on the purpose and steps involved for the EA study
- an overview of the water/wastewater servicing alternatives that were considered as part of the study and the evaluation of these alternatives, as well as the recommended solutions
- opportunities for residents and stakeholders to stay informed about the project

A copy of the presentation slides is provided in **Appendix D**.

Following the presentation, participants were invited to ask questions of the project team. Questions asked by PCC participants focused on planning policy, water servicing options, water quality, wastewater servicing, conservation, project costs, development, and further engagement opportunities for the project. Questions surrounding planning policy focused on the Greenbelt Plan and its guidance related to connecting to a lake-based supply for water servicing, and the Oak Ridges Moraine Conservation Plan regarding water regeneration. Questions about water servicing focused on new well locations and potential limitations of the aquifer. Multiple participants raised water quality questions about iron levels of well-based water supply. One participant asked whether recent changes to land uses were included in the project's calculations. Another asked if York Region would be implementing an education campaign to help share the benefits of conservation with the public. A few questions were asked about the overall cost of the EA and construction of the project. One participant asked why new development is frozen until the new water supply is provided. Finally, one participant asked when PCC 3 will be held in 2021. Questions asked and responses from the project team are transcribed below in Section I.

Participants were also invited to complete an online survey, providing feedback to the project team on both the material presented and the format of the online open house. Six individuals filled out the online survey, which remained open from November 25 to December 11, 2020. Their responses are documented in Sections II and III.

A copy of the survey questions asked is provided in **Appendix E**.

I. Question and Answer Period

A summary of questions asked throughout all three PCC events are summarized below according to themes. Participants had questions on the study overview, water quality, the alternative solutions evaluated, the environment, planning and growth, and participation in the study. Questions are denoted with a "Q", answers are denoted with an "A", and comments are denoted with a "C".

Study overview

Q: Will any of these initiatives increase the already exorbitant water rates we currently pay in Nobleton?

- A: Water and wastewater billing grades are managed by the Township of King. If you have further questions about your water or wastewater bills, please visit the Township of King website at www.king.ca or alternatively you can contact Service King. The number is 905-833-5321 or you can email serviceking@king.ca. Having said all of that, we are hoping that the result of this study would provide the servicing required to meet the growth in your community, which subsequently would affect the rates in your favour.

Q: Is there a preliminary (high-level) cost estimate for the recommended solutions?

- A: Growth-related infrastructure will be assigned and paid for by new development. The final capital cost breakdown (i.e., growth component vs. non-growth component) will be determined at a later stage of the project once the Recommended Solution has been selected. For more information on York Region's budget and how finances are used to deliver services, please visit www.York.ca/budget.

Q: Why is additional servicing capacity needed in Nobleton?

- A: The current water and wastewater systems have a limited capacity; additional water and wastewater infrastructure would be required to accommodate expected future growth.

Water quality

Q: It would be a shame to spend tax money on a new well that will provide the same poor quality of water with high iron levels. If we are going to get the same quality, why not just increase the capacity of our current wells (i.e., bigger pumps; bigger casing; etc.)?

- A: In terms of expanding the capacity of the existing wells, it is part of the solution we are proposing. That is increasing the capacity of Well #2.
- With regard to poor water quality, water quality issues such as iron, odour and taste have been raised and discussed as part of this study and considered in the recommended solution. York Region and the Township of King regularly sample the drinking water, as required by the Safe Drinking Water Act, to ensure it meets high standards for quality. The water supply complies with the Ontario Drinking Water Quality Standards. York Region is in the process of completing a Region-wide groundwater treatment study. The outcome of this study will include treatment recommendations for the Nobleton water system. To learn more about drinking water quality and monitoring visit www.york.ca/drinkingwater.

Q: Nobleton residents are very upset about the amount of iron in our water. Why is this not considered in the social and cultural evaluation category?

- A: Water quality issues such as iron, odour and taste have been raised and discussed as part of this study and considered in the recommended solution. York Region and the Township of King regularly sample the drinking water, as required by the Safe Drinking Water Act, to ensure it meets high standards for quality. The water supply complies with the Ontario Drinking Water Quality Standards. York Region is in the process of completing a Region-wide groundwater treatment study. The outcome of this study will include treatment recommendations for the Nobleton water system. To learn more about drinking water quality and monitoring visit www.york.ca/drinkingwater.
- C: Elevated concentrations of iron in exceedance of the aesthetic objectives have been reported in wells 2 and 3 and elevated iron concentration is common in deep aquifers in York Region. Any new well drilled within the same existing aquifer will also contain elevated iron levels.

Q: Will the addition of a new well help address some of the pressure concerns residents are experiencing?

- A: There are a few causes for water pressure concerns, some of which are under the jurisdiction York Region, others are under the jurisdiction of the Township of King. Any quality or pressure concerns should be directed to the Township of King. The Environmental Assessment team is working closely with the Township to resolve these issues where we can, as part of the overall water supply and generation of water from the wells into the storage system. However, concerns specifically related to water pressure are the responsibility of the Township of King.

Q: In the statement ""if the well supply cannot meet the necessary quality and quantity requirements", does the word "quality" include the aesthetic objective for iron?

- A: Yes, it does. Water quality issues such as iron odor and taste have all been raised and discussed as part of this study and considered in the recommended solution. We heard quite a few comments during the first Public Consultation Centre about this.

Alternative Solutions

Q: Is lake-based service cheaper or healthier? Why not increase the water supply from all of the current wells?

- A: Economic impacts were a part of the evaluation of all the alternatives presented. Based on overall capital cost, life cycle costs and operations and maintenance costs, connecting to the lake-based supply was the most expensive of the three options. Increasing the capacity of the existing well, in combination with a new production well, resulted in the lowest overall impact after evaluating the natural environment, social, cultural, jurisdictional, regulatory, technical and economic criteria.
- Since increasing groundwater supply can meet the anticipated growth, connecting to the lake-based water supply is not permitted. According to the province's long-term plan, A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019), extending supply from a Great Lake's source is generally only permitted if the local groundwater supply is unable to meet the quantity and or quality requirements.

Q: In your list of Alternative solutions, a conditional pass was given to allow for the addition of a lake-based supply, "if the well supply cannot meet the necessary quality and quantity requirements". Can you expand on this? Was the conditional pass given for quality or quantity or both?

- A: It relates back to evaluating the alternative. We did look at surface water lake-based supply, and it was evaluated and considered for both quality and quantity considerations against the well system. We gave it a conditional pass to carry forward further in the evaluation but was only to be considered if we discovered that a well-based supply would not provide sufficient quality and quantity. As we have concluded from our study, a new well will provide that. Therefore, the regulations do not permit a connection to the lake-based system.

Q: Are wells F and H within the same aquifer as the existing wells 2, 3 and 5?

- A: An aquifer is defined as layers of soil permeable enough to permit a useful amount of water to be extracted from it. There are a number of aquifers including the Scarborough and Thorncliffe aquifers underlying the study area. These aquifers were considered when we were doing the study on well sites. The Scarborough aquifer encompasses well sites 2, 3, and 5. As the recommended site is well site 5 the water will come from the Scarborough Aquifer.

Q: King City and Bolton are both on City water. Why is Nobleton not tapping into a lake-based water supply?

- A: The evaluation criteria shows that increasing the capacity of the existing well in combination with a new production well has the lowest overall impact. Since increasing groundwater supply can meet the anticipated growth, connection to the lake-based supply is not permitted.
- King City had all the necessary approvals for lake-based supply before the most recent update of the province's long-term plan, A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019). This update further restricted the extension of water and wastewater services unless deemed necessary.

Environment

Q: I understand groundwater has more minerals than lake-based water, which has more contaminants. Will York Region be conducting an education program to help people understand the benefits of groundwater and the value of conservation?

- A: Through the presentation it was noted that water conservation is part of the recommended solution moving forward. Although water conservation on its own cannot provide all the water required it is an important part for the Nobleton community moving forward. For more information on water quality, visit York Region's website.

Q: It appears that the possible new well location(s) are within the same aquifer as the existing well 2. If it is not possible to increase capacity based on the current wells due to aquifer limitations, then how can adding a new well still within the same aquifer increase the quantity/capacity?

- A: When we are talking about the capacity of the system, we are talking about the capacity of the existing wells, not necessarily the capacity of the aquifer. The aquifer does have a finite capacity and a limitation on what can be drawn from it. The limitation that we refer to are related to the limitations on the capacity of the well's ability to draw the water out of the ground. Even though the new well will be in the same aquifer, there are detailed studies and testing to show that by adding additional wells will not adversely impacting the ability of the existing well to draw water.

Q: Many people still put their sump pumps into sewer lines instead of the into the ditches. Will meters be installed to reduce this practice?

- A: It is not unusual for communities that have sump pumps that are supposed to be discharging to the surface still connected to the sanitary sewer system. York Region and the Township of King would encourage that sump pumps be directed to the surface and not to the sewage system, as it takes up valuable capacity. Metering would be under the jurisdiction of the Township of King. Through an environmental assessment study such as this one, metering is not typically within the detailed scope of study.

Planning and growth

Q: Can you expand on the provincial policy that prohibits the extension of lake-based service into the Greenbelt?

- A: The provincial policy and specifically the prevention of extending lake-based water servicing in the Greenbelt was put in place many years ago to help deal with urban sprawl throughout the Greater Toronto Area. One of the main principles was to allow communities that had existing lake-based supply to continue to grow and densify, and for municipalities such as Nobleton to allow growth within their boundaries without expanding over the Greenbelt. Essentially, the provincial policy is a document put forward by the government to ensure communities grow

within their community, limit sprawl, and protect sensitive environmental features such as the Oak Ridges Moraine.

Q: Given the ongoing municipal comprehensive review (MCR) process, has consideration been given to the possibility of additional expansion of services for growth beyond that presently identified in the Town's Official Plan?

- A: This study is only looking at the possibility of serving growth within the urban area boundary. We do not have the authority to add the properties outside of this boundary. To learn more about the land designation within the Township of King, please visit the Township of King's website and look at their Official Plan.

Q: If the Province amends the Growth Plan to allow conversion to lake-based system, will this option be part of the Phase 3?

- A: Increasing the capacity over the existing well in combination with the new production resulted in the lowest overall impact after evaluating the natural environment, social, cultural, jurisdictional, regulatory, technical, and economic criteria. These are all required by the Ministry for us to review. Since increasing groundwater supply can meet the anticipated growth, connecting to the lake-based water supply is not permitted under the regulation. According to the Province's long-term plan A Place to Grow: Growth Plan for the Greater Golden Horseshoe extending supply from great Lakes sources is generally only permitted if the local groundwater supply is unable to meet the quantity and quality requirements. In this study, current regulation only allows us to use the groundwater supply. If the policy changes then this EA, should time allow, will consider that as part of the growth.

Q: The Region of York recently endorsed a reconfiguration of the employment lands on the property located at 12805 Highway 27. The reconfiguration resulted in approximately 8 acres being changed to residential. Will the Region consider this land use change in the calculations for water/wastewater in Nobleton?

- A: This study is only looking at the possibility of serving growth within the urban area boundary. We do not have the authority to add the properties outside of this boundary. To learn more about the land designation within the Township of King, please visit the Township of King's website and look at their Official Plan.

Q: What is the exact wording in the Greenbelt Plan regarding water servicing? Does it not it say that lake-based water and sewer are only possible if it is an emergency? Development is not an emergency.

- A: The wording is: "settlement areas that are serviced by rivers and then lakes or groundwater municipalities will not be permitted to extend water or wastewater services from a Great Lake source unless the extensions are required for reasons of public health and safety". In essence, to expand using a lake-based system, we must be able to demonstrate the existing well system is insufficient. This is not the case, since increasing groundwater supply can meet the anticipated growth.

Q: When considering water for Nobleton since some of this land is on the Oak Ridges Moraine, is there any consideration of looking at regeneration of water, as prescribed by the Oak Ridges Moraine legislation? Or do you just think about removing water but not how to regenerate the aquifer?

- A: All applicable policies and regulations were reviewed as part of the environmental assessment through our investigation and a thorough background assessment of the pertinent data and baseline mapping of the well locations. The well locations were chosen to not impact

existing supply or cause future problems. This included the Oak Ridge Moraine Conservation Plan for mapping and the relevant policy as well as the hydrogeological mapping and reports available for the area.

Q: What's the time horizon you are planning to? Is it consistent with the Official Plan to 2031?

- A: This study looks at the possibility of servicing future growth in Nobleton up to year 2041. The existing Nobleton Community Plan can be found on King Township's website. The Township is currently undertaking a review of the Official Plan for the Township, which includes Nobleton as well.

Q: Why is all new development frozen for additional and small expansion like secondary units, or new lot developments? Why can we not use a septic system until the new water supply is provided - why there is no alternative bridging solution beside freezing all development?

- A: The Region is unable to answer that question as it is the Township of King who designates development as part of their Official Plan and the Nobleton Community Plan. This study is looking at the possibility of servicing growth within the urban area boundary, and we do not have the authority to add properties outside of the boundary. To learn more about the land designation within the Township of King please visit their website and look at their Official Plan.

Participation in the Study

Q: Is there a link to download the EA Study?

- A: Yes, there will be. At this time, we are currently in Phase Two of this Environmental Assessment study. Once this study is complete, all of the study materials will be posted online and available in hardcopy format within the Region as well for review and comments.

Q: What quarter in 2021 will the Open House 3 be in?

- A: the exact date is not finalized, but we are expecting that the third open house will be in the spring or summer of 2021. Once we know the exact date the project will be updated, and notice will be sent out to stakeholders.

II. Feedback on the Material Presented

Participants were asked to share feedback on the material presented in PCC 2 through the online survey. They were asked if they had any questions or comments on the evaluation processes for water and wastewater servicing, and if they had any comments on the preferred alternative solutions for both water and wastewater servicing. They were also asked if there were any additional issues they would like to see addressed in the next phase of the project, and if they had any additional thoughts or comments about the project. Minor edits have been made to spelling and grammar. The intent of the comments has not been altered.

Do you have any questions or comments on the evaluation process for water servicing?

- 1 participant responded "No", 1 responded "Yes", and 3 participants skipped the question.
- 1 participant shared the following feedback:
    - What population/household/business threshold are we building to/from? Doing nothing, halting growth to current capacity is the lowest cost option. Doubling/re-sizing wells are unlikely to generate a corresponding increase in the output: what will be done

if this does not generate the required water? Should not this be the first component, i.e., confirm adequate water supply before any further work is done? Output?

Do you have any comments on the preferred alternative solution for water servicing?

- 1 participant responded “No”, 1 responded “Yes”, and 2 participants skipped the question.
- 2 participants shared the following feedback:
    - The preferred alternative seems reasonable as long as the potential future addition of the second well site (F) would be easily integrated into this solution when required to service additional growth
    - I am concerned the wells are serviced by a groundwater profile area that is increasingly being urbanized impacting the well replenishment. Who is paying for this? The existing tax base structure or new development? This should not be a burden on the existing tax base.

Do you have any questions or comments on the evaluation process for wastewater servicing?

- 2 participants responded “No”, 1 responded “Yes”, and 3 participants skipped the question.
- 1 participant shared the following feedback:
    - What capacity of population/household/business are we building from/to? Doing nothing/growth to capacity is the cheapest option. Why are we pretending it can't be done?

Do you have any comments on the preferred alternative solution for wastewater servicing?

- 2 participants responded “No”, and 2 participants skipped the question.
- 2 participants shared the following feedback:
    - I’m not certain the proposed solution will accommodate future growth. It seems this solution is a temporary fix and ultimately a new facility will be required
    - Will the forcemain increase in throughput force an earlier replacement/increased maintenance of the forcemain itself (due maintenance and/or capacity), or is this included in the costing? Who is paying for this? The existing tax base structure or new development? This should not be a burden on the existing tax base. What are the additional costs for maintenance of the larger facility?

Are there additional issues you would like to see addressed in the next phase?

- 3 participants skipped the question.
- 3 participants shared the following feedback:
    - If possible - please address construction timelines and construction methods - (Direction drill vs Open cut forcemains etc...)
    - It is difficult to get past all the points in the preface stating that you are aware of all the issues the community has raised about the horrible quality, taste, and feel of our current water and the desire to tap into Lake Ontario yet it is being ignored as a real solution and yet more wells are being proposed to account for future development. There must be something more we can do. We live here and have to deal with the

decisions that are being made right now. I would like to see tapping into Lake Ontario as a serious consideration. Our water runs orange, smells and tastes of high levels of chlorine, ruins our clothing and our fixtures and is horrible for our skin and frankly tastes horrible. It would be nice to be able to drink a glass of water from my tap as I was able to when I lived in Toronto.

- Financing. Impact on the existing tax base. Capacity changes projections (Original projections, current use (i.e. are they higher lower) future projections with the delta of the original to current - i.e. how they aligned with what happened, and are we making the same errors in judgement. Timeline/order: i.e. are we determining well viability first as all this work depends on viable well water supply. Impact of urbanization current and infill on groundwater: what steps are being taken to protect the recharge areas of the wells now?

Do you have any additional thoughts or comments about this project?

- 1 participant responded "No", and 3 participants skipped the question.
- 2 participants shared the following feedback:
  - I would like to see more discussion of our current water issues in the community and how this will be solved. The addition of even more wells for future development may solve the water quantity issue but certainly will not solve the water quality issue. I am well versed in risk assessment and allowable levels set by the government- I am not satisfied with this explanation as the water quality this community has to live with is horrible.
  - There's still a number of folks on septic in town (i.e. not hooked up even though available): has this been considered in the analysis?

III. Feedback on the Open House Format

Participants were asked to share feedback on the format of PCC 2. They were asked to rate the format of the presentation overall, on a scale of 1 to 5, and to share information about their experience. Minor edits have been made to spelling and grammar. The intent of the comments has not been altered.

On a scale of 1 (poor) to 5 (excellent), how would you rate the presentation format overall?

- 1 participant skipped the question.
- 2 participants rated the presentation format as a "2" and 3 participants rated the presentation as a "5".
- The average rating across respondents was 4.2 out of 5.

Please let us know about your experience: What did you like best or find most useful about the presentation, or consultation materials? Did you encounter any technical difficulties with the presentation or consultation materials? Do you have any other feedback or comments for us on the consultation process or format?

- 4 participants skipped the question.
- 2 participants shared the following feedback:

- The presentation was great! Appeared to run problem-free. I liked the numerous staff involved as questions related to the Project, Water, and Wastewater as staff responded to the specific questions that were asked in their respected field. Overall well done!
- I would recommend all background technical material be made more visible within the format. I also believe this is far too opaque, as it does not make it clear this is a much larger request to increase the development in Nobleton.

E. Comments and Issues

Participants were invited to provide emailed comments or concerns, and issues related to the proposed project by emailing the Region's Project Manager. The feedback received generally related to:

- how to participate in PCC 2
- water quality issues in Nobleton
- expanding the servicing area
- the cost of water and wastewater servicing
- community impacts of the project
- the need to consider appropriate growth and intensification.

Table 2 documents the written comments received through email. Minor edits have been made to spelling and grammar. The intent of the comments has not been altered.

Table 2: Comments and issues provided by participants regarding Public Consultation Centre 2.

Submission Type	Comment/Issue
Email	I don't understand how to join the Open House planned for Nobleton. I just dial up york.ca/nobletonea and that will magically get me there? Right now that takes me to a webpage that advertises this Open House. Will there be something there to click on for the meeting?
Email	Thank you for your notification about the upcoming online open house #2 for the Water and Wastewater Servicing in the community of Nobleton Class EA study by York Region. Following your online open house, can you please provide me with a PDF version of the materials for my review/file?
Email	I would like to attend the online open house #2 on November 25th but I was not able to find the meeting link. Could you please direct me to where I can find it or send it to me?
Email	This is to acknowledge receipt of the attached letter on the Water and Wastewater Servicing in the Nobleton Community Project. Please note that all future correspondence must be addressed to [NAME REMOVED FOR PRIVACY REASONS]. Could you please let us know if any archaeological studies are anticipated as part of this project?
Email	I hope to find you well. We are residents of Nobleton residing at [ADDRESS REMOVED FOR PRIVACY REASONS]. I received a notice for the "Nobleton Water and Wastewater Servicing Municipal Class Environmental Assessment Study".

Submission Type	Comment/Issue
	We feel it is very important to have the municipal water and wastewater services extended per the notice. Please let me know if we can be of assistance in relation to this assessment.
Voicemail	Thank you for the prompt reply. I was under the impression the area within the blue dotted line already had water and wastewater services. Overall, it would make sense to cover the area until Diana Dr., as the current residents have a bad quality of independent well water and wastewater issues. Is there an application or a petition that can be submitted to extend the area up to Diana Dr? I would appreciate a phone call for a better understanding of this. I can be reached at [PHONE NUMBER REMOVED FOR PRIVACY REASONS].
Email	I am writing in regards to the notice received for the water and water service issue. We moved to Nobleton almost 4 years ago, downsizing from Woodbridge because we are now retired and on a fixed income. We purchased a semi-detached home hoping to be able to afford a smaller home. The reason for this email is that we can not believe the cost of the water supply up here in Nobleton. Our last bill was $1,088.09 for a period of 3 months. We do not have a pool, have no other people in our home, therefore unbelievable why we had such a bill to pay. Another complaint is not only we had to purchase a water softener to ensure the water is of better quality, but we still notice rust stains in our toilets and bathroom sinks. During the summer we decided to replace all our toilets because the ones from the builder had rusted so badly due to the quality of water when we moved in and could not remove the stains. However, now we notice that also with the new toilets are starting to rust even with the water softener. My question is why is the sewer use, water maintenance and sewer charges are more than the water usage. It is atrocious, especially when the quality is very poor and continuing to cause rust problems and maybe even a health hazard in the long run in this community. Something has to be done!!!! I called the Township of King and the only thing they could tell me is that the population in Nobleton is small and that we don't have enough people to pay for the water service. This can't be true when we are seeing more new builds and more to come along King Rd. and we do belong as part of King-Vaughan. I was part of Vaughan and never paid these types of charges for water when I had my children at home and we were a family of six. Also, I am noticing that many people are not maintaining their lawns in this area due to the water charges. I can't blame them and will probably have to do the same if this continues. Even though we paid a lot of money to do our landscaping professionally to make the area look attractive, we will be forced to stop watering our lawn and join everyone else that feels the same. We are not only paying a lot for the water service, but also the property taxes which is ridiculous for the size of the home. If we knew this, we certainly would have stayed where we were. This being said, I'm sure that with the increase of homes being built, and further discussion with the Township of King, that your office can come up with a resolution to help the community afford the water usage and at the same time, have safe water and also we can keep up the properties with proper water service. I will try to attend the meeting on-line, but sometimes I am not able to connect so I

Submission Type	Comment/Issue
	thought of writing my concerns to you directly. Thank you for giving me the opportunity to send you our concerns and hopefully, something will be done about this.
Email	1) To understand the impacts this project may have on the Nobleton community, part of which is situated on the Oak Ridges Moraine, has the study team accessed groundwater data from the Oak Ridges Moraine Partnership? 2) Does MNRF have a role in this project? i.e. Has the MNRF completed a risk assessment? 3) Has a water budget been completed and monitored for the source water protection area? Can you share this data? 4) Are you examining the impact of water conservation efforts, operational efficiencies and optimizing existing infrastructure (as per the provincial, Places to Grow Plan) before considering new infrastructure? What programs/processes have been undertaken in this regard? 5) Are planners, engineers and finance at York Region working together on the project team to create an integrated plan for long term growth as part of the MCR, 2051 planning process? 6) Prior to the selection of a preferred alternative will full cost accounting of the project be undertaken to understand the long-term costs for capital, maintenance and on water and wastewater rates?
Voicemail	Interested in joining virtual PCC.
Email	I watched the Online open house #2. I just can't help but think that the overall solution, for now, and especially for the future of our town, Nobleton is to connect to the pipe which is servicing all of York Region south of us. Is it not just 4 km south of us at Kirby Road? And if not for the current town plan, will it not be the only solution for the next one? If so why would we spend anything on fixing the current system? When most of York Region seems to be on the other wastewater system? I look forward to your answer.
Email	I'm sorry I missed this on Wednesday. Is there a summary sheet or minutes of the meeting which you could provide me with?
Email	To begin, I would like to commend you and your team for attempting to complete an environmental assessment that is community-based. I do however have some major concerns, some of which I have addressed in the survey. As I can appreciate that you have to defer to some of the current literature and studies as well as the threshold limit values set by the government, and the province's long-term plans, however, it is essential that your team acknowledges and addresses the fact that the community is completed unsatisfied with the current water quality within Nobleton. It appears that this study is only concerned about water quantity and servicing it for future developments and has completely disregarded the fact that the community has very strongly outlined to your team that the quality of the water here is horrible. I have read through the detailed presentation alongside the FAQ and I feel there really needs to be more discussion on what the community needs (tapping into Lake Ontario) rather than saying it simply can not be done in this community (despite it being done

Submission Type	Comment/Issue
	in Kleinburg and King City). The addition of even more wells for future development may solve the water quantity issue but certainly will not solve the water quality issue. I am hoping that your team can somehow come together with the community to actually address this equally important issue at hand (water quality). I am happy to liaison in any capacity necessary. I live in this community with my family, which includes two small children - I am not satisfied hearing that the water is within safe limits yet our water runs orange and/or smells heavily chlorinated at certain times. This is directly the result of living in a community whose water source is well water. I look forward to hearing from you soon.
Email	I am sending this email in regards to a notice we received from you dated November 12th about the Water and Wastewater Servicing in the Nobleton Community EA and online open-house. Firstly, I wanted to thank you for your letter and to inform you at York Region that we had a new Chief elected in August, his name is [NAME REMOVED FOR PRIVACY REASONS]. Secondly, to my understanding, Nobleton falls just outside our Treaty area so you need not update us as you continue to work through this project. I am not however speaking on behalf of the other Williams Treaties communities so please continue to contact them unless they tell you otherwise. I want to stress that much of York Region does fall within our treaty area so please continue to keep us informed on proposed future projects.
Voicemail	Missed PCC 2, looking for more information.
Survey	What population/household/business threshold are we building to/from? Doing nothing, halting growth to current capacity is the lowest cost option. Doubling/re-sizing wells are unlikely to generate a corresponding increase in output: what will be done if this does not generate the required water? should not this be the first component, i.e. confirm adequate water supply before any further work is done? output? I am concerned the wells are serviced by an groundwater profile area that is increasingly being urbanised impacting the well replenishment. Who is paying for this? The existing tax base structure or the new development? This should not be a burden on the existing tax base. What capacity of population/household/business are we building from/to? Doing nothing/growth to capacity is the cheapest option. Why are we pretending it can't be done? What capacity of population/household/business are we building from/to? Doing nothing/growth to capacity is the cheapest option. Why are we pretending it can't be done? Financing. Impact to existing tax base. Capacity changes projections (Original projections, current use (i.e. are they higher lower) future projections with the delta of the original to current - i.e. how they aligned with what happened, and are we making the same errors in judgement. Timeline/order: i.e. are we determining well viability first as all this work depends on viable well water supply. Impact of urbanization current and infill on groundwater: what steps are being taken to protect the recharge areas of the wells now?

Submission Type	Comment/Issue
	There's still a number of folks still on septic in town (i.e. not hooked up even though available): has this been considered in the analysis I would recommend all background technical material be made more visible within the format. I also believe this is far too opaque, as it does not make it clear this is a much larger request to increase the development in Nobleton.
Survey	The preferred alternative seems reasonable as long as the potential future addition of the second well site (F) would be easily integrated into this solution when required to service additional growth. I'm not certain the proposed solution will accommodate future growth. It seems this solution is a temporary fix and ultimately a new facility will be required
Survey	It is difficult to get past all the points in the preface stating that you are aware of all the issues the community has raised about the horrible quality, taste, and feel of our current water and the desire to tap into Lake Ontario yet it is being ignored as a real solution and yet more wells are being proposed to account for future development. There must be something more we can do. We live here and have to deal with the decisions that are being made right now. I would like to see tapping into Lake Ontario as a serious consideration. Our water runs orange, smells and tastes of high levels of chlorine, ruins our clothing and our fixtures and is horrible for our skin and frankly tastes horrible. It would be nice to be able to drink a glass of water from my tap as I was able to when I lived in Toronto. I would like to see more discussion of our current water issues in the community and how this will be solved. The addition of even more wells for future development may solve the water quantity issue but certainly will not solve the water quality issue. I am well versed in risk assessment and allowable levels set by the government- I am not satisfied with this explanation as the water quality this community has to live with is horrible.
Survey	If possible - please address construction timelines and construction methods - (Direction drill vs Open cut forcemains etc...). The presentation was great! Appeared to run problem-free. I liked the numerous staff involved as questions related to the Project, Water, and Wastewater as staff responded to the specific questions that were asked in their respected field. Overall well done!
Email	Thank you for sending us notification regarding 'Study for Water and Wastewater Servicing in the community of Nobleton'. In our preliminary assessment, we have confirmed that Hydro One has existing high voltage Transmission facilities in proximity to your study area (Nobelton WRRF). Hydro One does not have concerns with regards to your project as long as the expansion of Nobleton WRRF is confined to the existing site. Hydro One would like to stay informed as more information becomes available so that we can advise if the preferred solution changes to conflict with our assets, and if so; what resulting measures and costs could be incurred by the proponent. Note that this response does not constitute approval for your plans and is being sent to you as a courtesy to inform you that we must continue to be consulted on your project. In addition to the existing infrastructure mentioned above, the applicable transmission corridor may have provisions for future lines or already contain secondary land uses (e.g., pipelines, watermains,

Submission Type	Comment/Issue
	parking). Please take this into consideration in your planning. Also, we would like to bring to your attention that should (Study for Water and Wastewater Servicing in the community of Nobleton) result in a Hydro One station expansion or transmission line replacement and/or relocation, an Environmental Assessment (EA) will be required as described under the Class Environmental Assessment for Minor Transmission Facilities (Hydro One, 2016). This EA process would require a minimum of 6 months for a Class EA Screening Process (or up to 18 months if a Full Class EA were to be required) to be completed. Associated costs will be allocated and recovered from proponents in accordance with the Transmission System Code. If triggered, Hydro One will rely on studies completed as part of the EA you are current undertaking. Consulting with Hydro One on such matters during your project's EA process is critical to avoiding conflicts where possible or, where not possible, to streamlining processes (e.g., ensuring study coverage of expansion/relocation areas within the current EA). Once in receipt of more specific project information regarding the potential for conflicts (e.g., siting, routing), Hydro One will be in a better position to communicate objections or not objections to alternatives proposed. If possible at this stage, please formally confirm that Hydro One infrastructure and associated rights-of-way will be completely avoided, or if not possible, allocate appropriate lead-time in your project schedule to collaboratively work through potential conflicts with Hydro One, which ultimately could result in timelines identified above. In planning, note that developments should not reduce line clearances or limit access to our infrastructure at any time. Any construction activities must maintain the electrical clearance from the transmission line conductors as specified in the Ontario Health and Safety Act for the respective line voltage. Be advised that any changes to lot grading or drainage within, or in proximity to Hydro One transmission corridor lands must be controlled and directed away from the transmission corridor. Please note that the proponent will be held responsible for all costs associated with modifications or relocations of Hydro One infrastructure that result from your project, as well as any added costs that may be incurred due to increased efforts to maintain said infrastructure. We reiterate that this message does not constitute any form of approval for your project. Hydro One must be consulted during all stages of your project. Please ensure that all future communications about this and future project(s) are sent to us electronically to secondarylanduse@hydroone.com
PCC	Is the water level in the aquifer going down? I understand that people nearby but outside the urban area boundary are having to get water trucked in during summer months but until recently they never had to do that.

F. Responses to Comments

The project team will consider all feedback received from Public Consultation Centre 2 to determine the next steps for the project. Feedback from participants will also assist with improving the next open house. It is anticipated that the next open house will take place in 2021.

Appendix A – Public Consultation Centre Briefing

Municipal Class Environmental Assessment Study:
Water and Wastewater Servicing in the Nobleton Community
Public Consultation Centre (PCC) #2, November 25, 2020
Briefing Summary

The second Public Consultation Centre (PCC) for the Water and Wastewater Servicing Municipal Class Environmental Assessment (EA) for the Nobleton Community was held online on Wednesday, November 25, 2020. It was hosted virtually by York Region via Microsoft Teams Live Events. The PCC was held as a series of three 1-hour long town hall events throughout the day at 10 AM, 2 PM, and 7 PM. Identical presentations were shared at each session. All digital materials were made available online on York Region's website, at www.yorkregion.ca/nobletonea.

The purpose of the Class EA is to identify long-term water and wastewater servicing solutions for the community of Nobleton. The purpose of the PCC was to present the water/wastewater servicing alternatives that were considered, share the evaluation of these alternatives, present the recommended solutions, and obtain public input on the alternatives and proposed solutions. The PCC provided attendees an opportunity to learn more about the project and engage with members of the project team through various means, including:

- Viewing one of three sessions hosted throughout the day which included:
    - Watching a recorded presentation on the evaluation of servicing alternatives and recommended servicing solutions (identical in each session)
    - Participating in a facilitated question and answer period (informed by public questions)
- Completing an online feedback form
- Viewing presentation boards and materials posted online
- Providing feedback directly to York Region's Project Manager

The PCC was attended by approximately 60 participants across all three sessions. Of the 60 participants, most joined via Microsoft Teams Live, and 9 joined via telephone. Municipal staff, consultants, and interested members of the public attended the PCC. No identified members of the media were present.

Questions asked by PCC attendees focused on planning policy, water servicing options, water quality, wastewater servicing, conservation, project costs, development, and further engagement opportunities for the project. Questions surrounding planning policy focused on the Greenbelt Plan and its guidance related to connecting to a lake-based supply for water servicing, and the Oak Ridges Moraine Conservation Plan regarding water regeneration. Questions about water servicing focused on new well locations and potential limitations of the aquifer. Water quality questions pertaining to iron levels of well-based water supply were raised by multiple participants. One participant asked whether recent changes to land uses were included in the project's calculations. Another asked if York Region would be implementing an education campaign to help share the benefits of conservation with the public. A few questions were asked about the overall cost of the EA and construction of the project. One participant asked why new development is frozen until new water supply is provided. Finally, one participant asked when PCC 3 will be held in 2021. These questions were responded to in the PCC sessions, and all feedback was logged for consideration by York Region and the project team.

Appendix B – Notice of Open House

NOTICE OF ONLINE OPEN HOUSE #2

Municipal Class Environmental Assessment Study
Water and Wastewater Servicing in the Nobleton Community

LEARN MORE!
HAVE YOUR SAY.

The Regional Municipality of York is identifying long-term water and wastewater servicing options for the Nobleton community through a Schedule C Municipal Class Environmental Assessment (Class EA). The Class EA will support growth in the community and optimize the use of existing Regional infrastructure.

At this time our open house is moving to an online format.

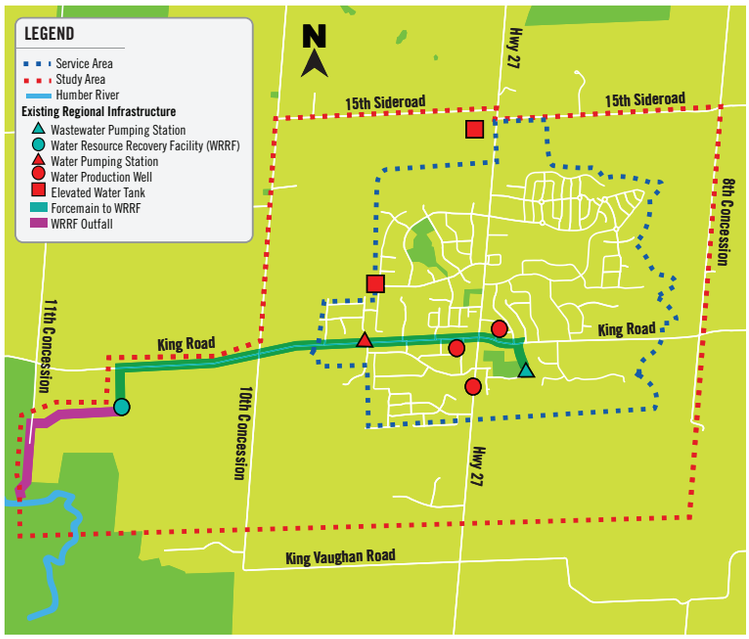
WE WANT TO HEAR FROM YOU!

You are invited to join the online open house to review and comment on:

1. Water and wastewater servicing solutions that were considered
2. Recommended solutions to support forecasted growth in Nobleton

For more information about the study visit **york.ca/nobletonea**

All materials, including information to join the open house will be provided.



ONLINE OPEN HOUSE:

Date: Wednesday, November 25, 2020
Time: Three (3) identical 1-hour sessions
10 a.m., 2 p.m. and 7 p.m.

To join the online open house: **york.ca/nobletonea**
This notice was issued on Thursday, November 12, 2020.

THANK YOU FOR YOUR PARTICIPATION IN THIS STUDY.

If you are unable to join the online open house, you can call 416-764-8658 | Toll Free 888-886-7786 and listen to the session. Please let us know if you require additional accommodations to participate. We will arrange for you to take part in another way. Meeting materials and an accessible version of this notice are available upon request.

York Region's number one priority is protecting the health and safety of staff and all our communities. As we monitor the ongoing COVID-19 situation, York Region is committed to effective engagement and consultation with the public and stakeholders in accordance with the Municipal Class Environmental Assessment process.

To submit questions, comments or to be added to the mailing list, please contact:

Afshin Naseri, P.Eng.
Senior Project Manager, Environmental Services
The Regional Municipality of York
17250 Yonge Street Newmarket, ON L3Y 6Z1
afshin.naseri@york.ca
1-877-464-9675 ext. 75062 Fax: 905-830-6927

York Region

Appendix D – Presentation Slides

Water and Wastewater Servicing in the Nobleton Community

Municipal Class Environmental Assessment Study

Online Open House No. 2

Wednesday, November 25th, 2020
Online Sessions: 10 to 11 a.m.; 2 to 3 p.m.; and 7 to 8 p.m.

York Region

Project Background

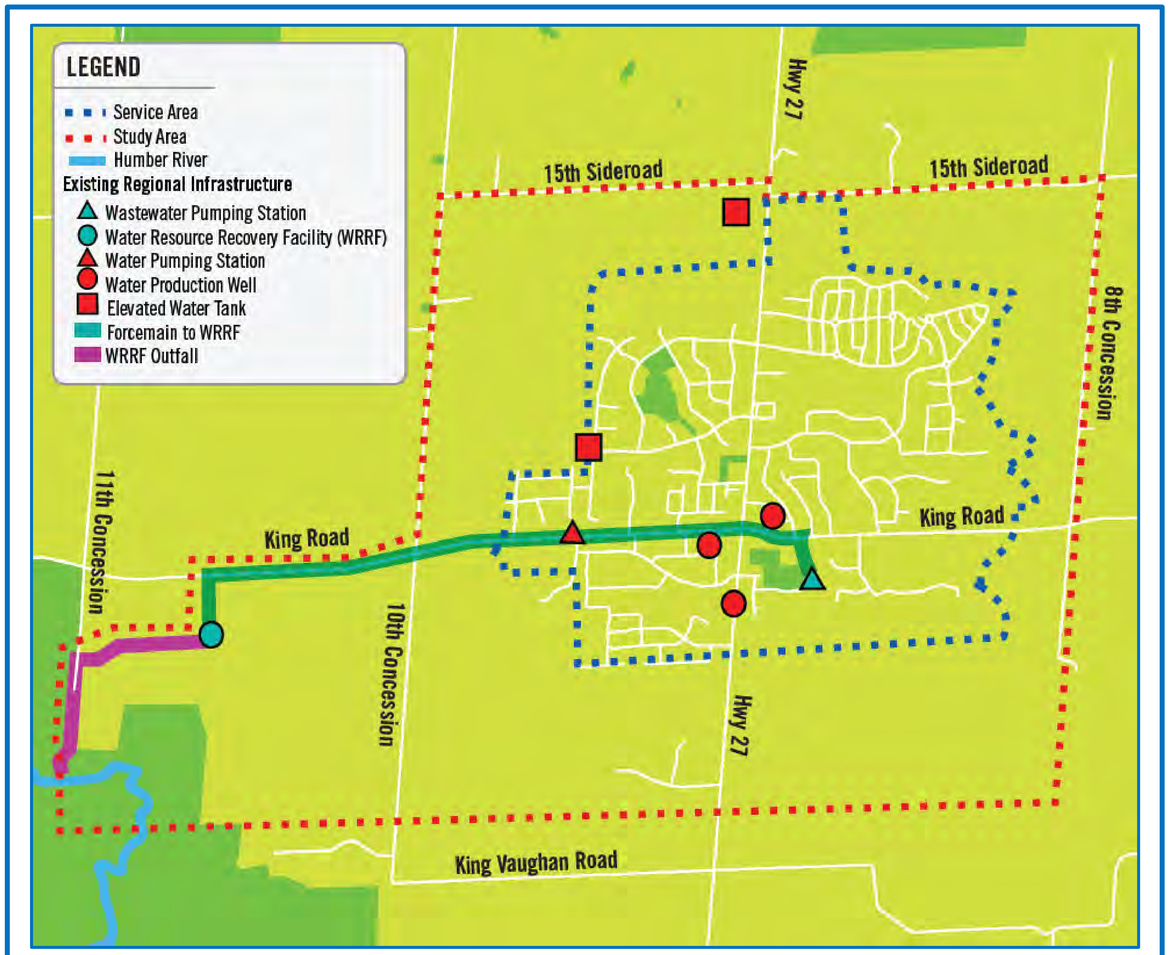
Problem/Opportunity Statement for this Municipal Class Environmental Assessment (Class EA) Study

- To identify **long-term water and wastewater servicing solutions** to support forecasted growth in Nobleton to 2041 while **optimizing the use of existing Regional infrastructure.**

Purpose of this Open House

- Present the **alternatives considered**
- Share the **evaluation of alternatives**
- Share the **recommended solutions**
- **Obtain your input**

We want to hear from you!



Study Area and Service Area

Service Area: *Community of Nobleton boundary including current and planned service areas*

Study Area: *All serviced area plus an assessment of potentially impacted lands due to new infrastructure requirements*

York Region

Schedule C Municipal Class Environmental Assessment Study Process

Before EA Technical Studies

Phase 1 Problem or Opportunity

- Identify the problem or opportunity
- **Conduct public consultation**

Public Open House #1 February 2019

Phase 2 Alternative Solutions

- Identify and evaluate alternative solutions to problem
- **Conduct public consultation**
- Select recommended solution

Online Open House #2

We are here

Phase 3 Alternative Designs

- Identify and evaluate alternative designs for the recommended solution
- **Conduct public consultation**
- Select preferred design

Open House #3

Phase 4 Environmental Study Report

- Complete Environmental Study Report
- Post report for 30 day public and agency review period

Public Review Period

Project Timeline

Stay informed throughout the study process by visiting the York Region EA Website (**york.ca/nobletonea**).

We are here

November 2018
Notice of Commencement

February 2019
Open House #1

November 2020
Open House #2

Summer 2021
Open House #3

Winter 2021
Environmental Study Report & Notice of Study Completion

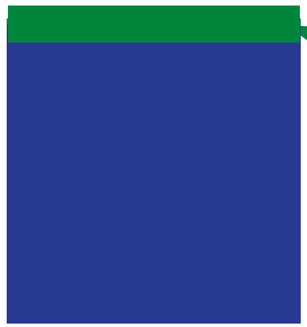
Nobleton Water System: Needs Assessment

STORAGE

Current Storage
3,845 m^3

to

Target Storage
3,917 m^3



Minor increase in storage required to meet growth

GROUNDWATER SUPPLY

Current Supply
51.6 L/s

to

Target Supply
89.5 L/s

Significant increase in supply required to meet growth

Nobleton Wastewater System: Needs Assessment

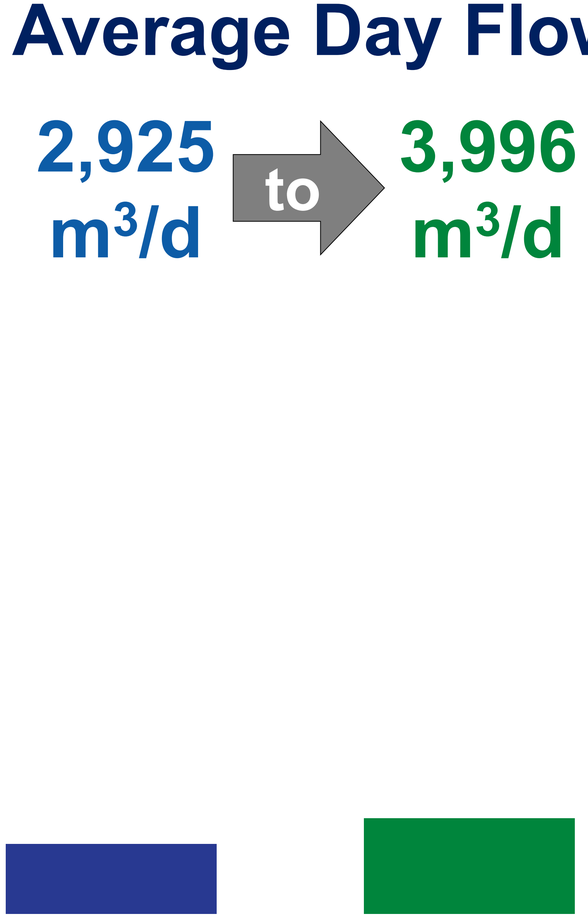
WATER RESOURCE RECOVERY FACILITY (WRRF)

FLOW TRANSFER (PUMP STATION & PIPES)

HUMBER RIVER (RECEIVING WATER)

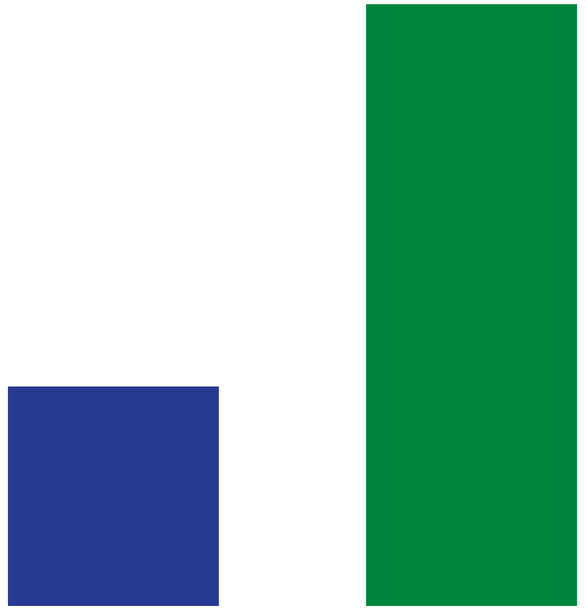
Average Day Flow

2,925 m^3/d to 3,996 m^3/d



Peak Flow

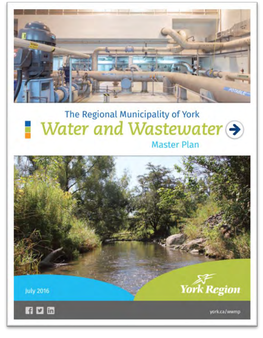
9,177 m^3/d to 25,174 m^3/d



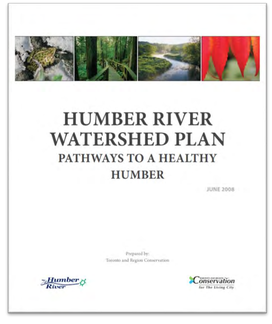
Plans for Consideration

This Class EA must also consider input from various existing documents.

Places to Grow

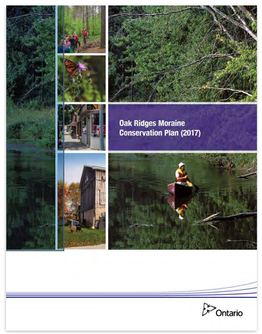


York Region's 2016 Water and Wastewater Master Plan

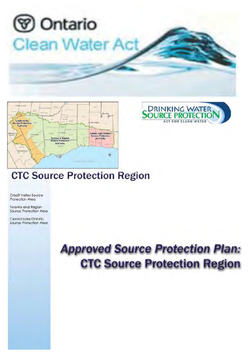


Humber River Watershed Plan

King Township Official Plan (Draft)

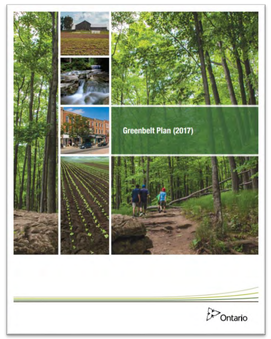


Oak Ridges Moraine Conservation Plan

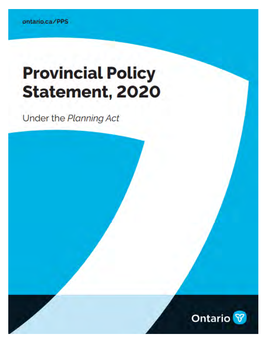


Clean Water Act / Source Protection Plan

York Region's 2010 Official Plan



Greenbelt Plan



Provincial Policy Statement

Technical Studies

Natural Environment Impact Assessment

- Identification of natural features (wetlands, forests, species at risk, etc.)

Hydrogeological Assessment

- Review of groundwater conditions in the Study Area (existing wells, groundwater levels, etc.)

Cultural Heritage Resource Assessment

- Review of cultural heritage resources in the Study Area

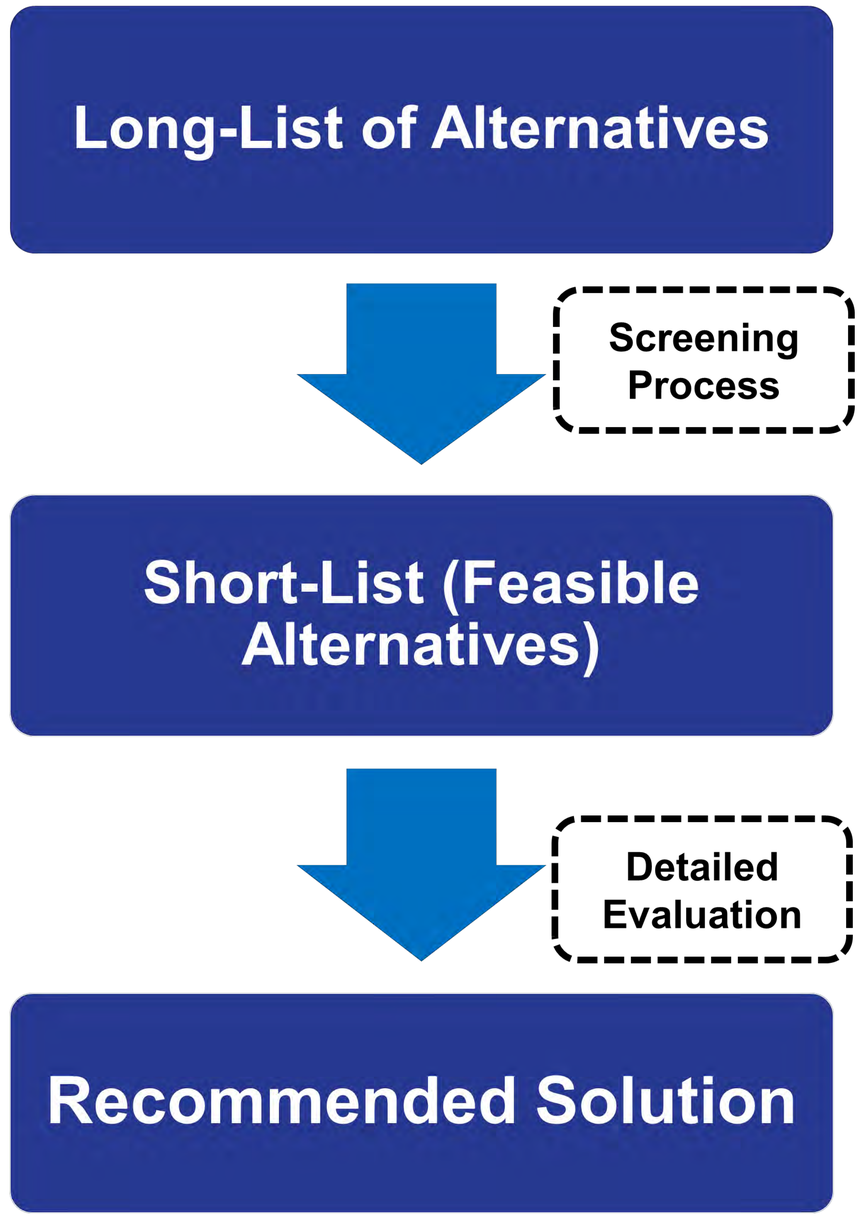
Archaeological Assessment

- Review of potential archaeological resources in the Study Area

Geotechnical Assessment

- Assessment of subsurface soil conditions

Evaluation Process



Screening Long-List of Alternative Water Supply Solutions

Solutions Considered to Address Water Supply Needs	Long-List of Alternative Water Supply Solutions Screening Summary	Screening Status
1. Do Nothing - Permit Growth Without Increasing Capacity	▪ Unable to provide supply to meet forecasted growth ▪ Carried forward for comparative purposes only	**Fail**
2. Limit Growth Up To Existing Capacity	▪ Unable to provide supply to meet forecasted growth	**Fail**
3. Encourage Water Conservation To Reduce Usage	▪ Unable to provide supply to meet forecasted growth ▪ Recommended conservation be carried forward as separate ongoing program to help reduce water supply needs	**Fail**
4. Increase Capacity of Existing Wells (Well #2, #3 and/or #5)	▪ Unable to increase capacity enough to provide enough supply to meet forecasted growth	**Fail**
5. Increase Capacity of Existing Well #2 and Add a New Production Well	▪ Able to provide supply to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**
6. Increase Capacity with Two New Production Wells	▪ Able to provide supply to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**
7. Develop a Blended System with the Addition of a Lake-Based Water Supply Connection to the Existing Wells	▪ Able to provide supply to meet forecasted growth ▪ Carried forward conditionally. The province's long-term plan, A Place to Grow, only allows the addition of a lake-based supply connection if well supply cannot meet the necessary quality or quantity requirements.	**Conditional Pass**
8. New Water Supply Source from Humber River	▪ Unable to provide sufficient supply from Humber River to meet forecasted growth	**Fail**

Short-List of Alternative Water Supply Solutions

Three alternatives passed the screening process and were selected for detailed evaluation:

1) Supply Alternative A

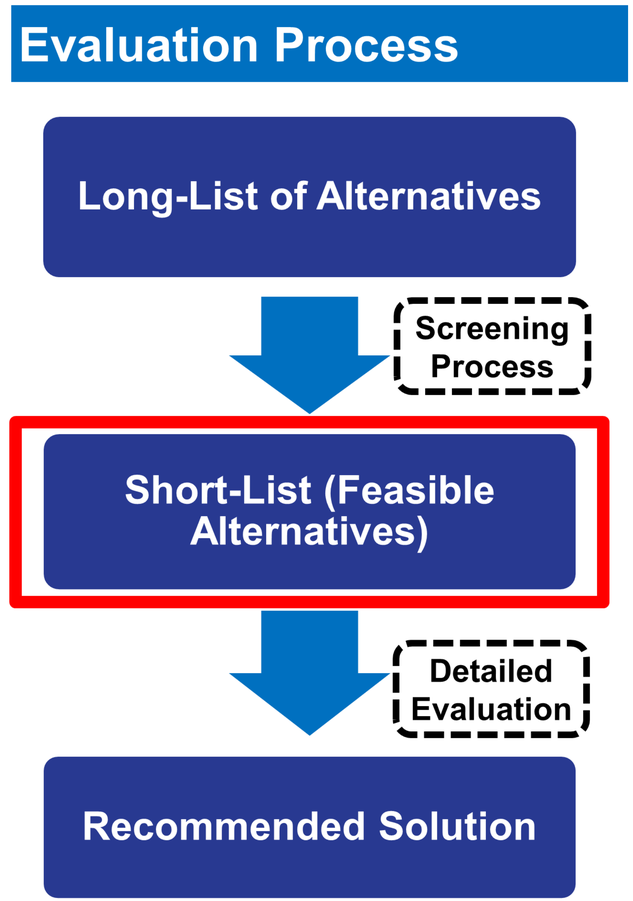
- Increase Capacity of Existing Well #2 and Add a New Production Well

2) Supply Alternative B

- Increase Capacity with Two New Production Wells

3) Supply Alternative C

- Develop a Blended System with the Addition of a Lake-Based Water Supply Connection to the Existing Wells



Water Supply Alternatives (Well Sites Considered)

Eight potential new well sites were narrowed down to two, Site F and Site H. Sites were narrowed down to those that would provide the best potential groundwater supply, make the most sense logistically, be simplest to implement and best meet all applicable policies and regulations. This led to the following water supply sub-alternatives:

1) Supply Alternative A1:

- Increase Capacity at Existing Well #2
- Add New Well at Site F

2) Supply Alternative A2:

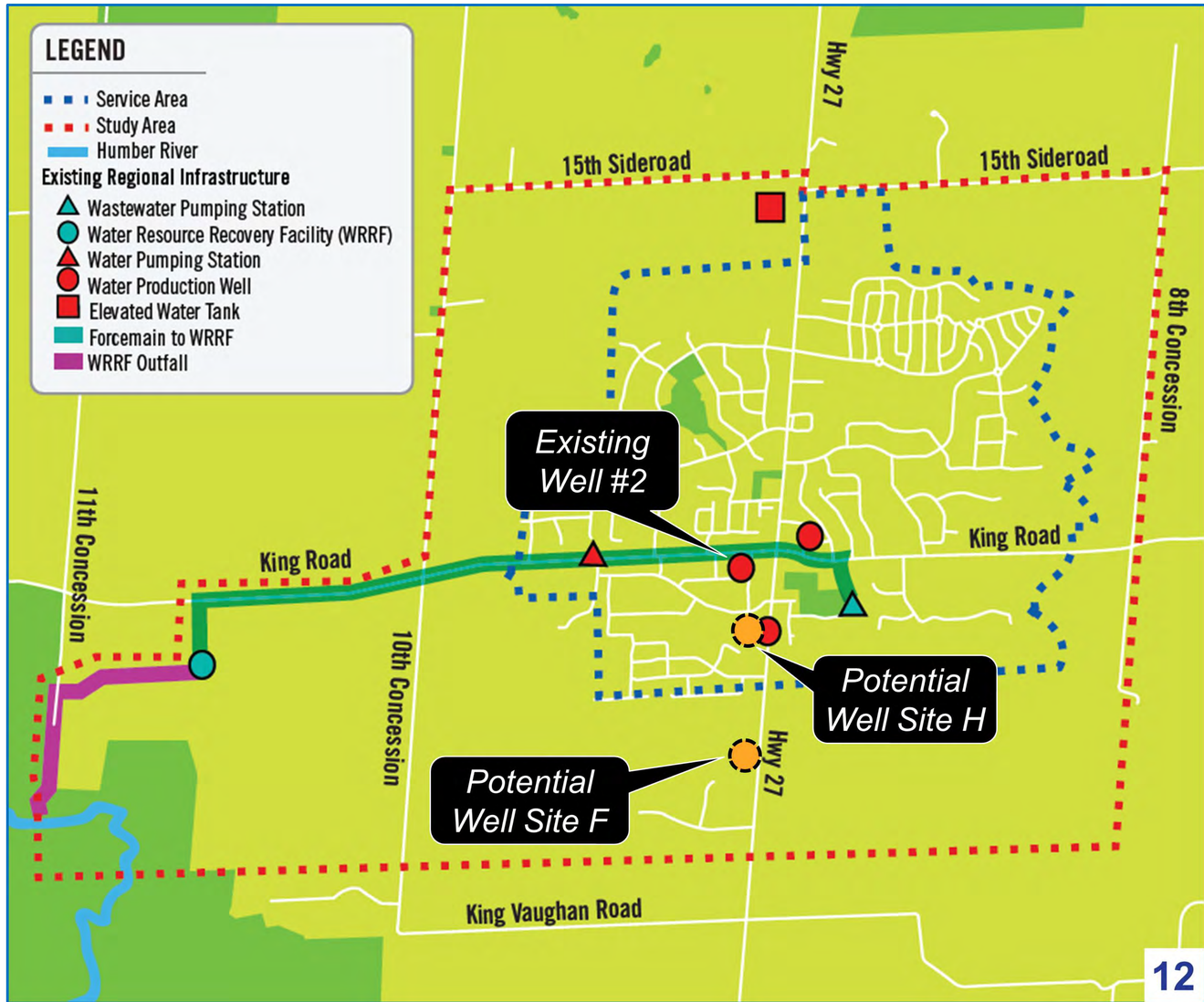
- Increase Capacity at Existing Well #2
- Add New Well at Site H

3) Supply Alternative B:

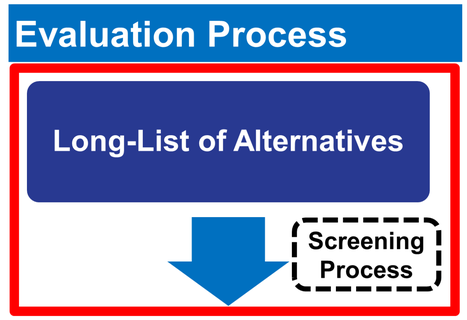
- Add New Well at Site F
- Add New Well at Site H

4) Supply Alternative C:

- No change to wells
- Add Lake-Based Supply



Screening Long-List of Alternative Water Storage Solutions



Solutions Considered to Address Water Supply Needs	Long-List of Alternative Water Supply Solutions Screening Summary	Screening Status
1. **Do Nothing - Permit Growth Without Increasing Capacity**	▪ Unable to provide storage capacity to meet forecasted growth ▪ Carried forward for comparative purposes only	**Fail**
2. **Limit Growth Up To Existing Capacity**	▪ Unable to provide storage capacity to meet forecasted growth	**Fail**
3. **Encourage Water Conservation To Reduce Usage**	▪ Unable to provide storage capacity to meet forecasted growth ▪ Recommended conservation be carried forward as part of overall servicing strategy	**Fail**
4. **Modify Existing Design Guidelines' Storage Requirements**	▪ Does not meet existing Design Guidelines and there is not enough evidence to support modification of Guidelines	**Fail**
5. **New Storage Facility (Replace Existing Nobleton South Elevated Tank Storage Facility With Bigger Storage Facility)**	▪ Able to provide storage capacity to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**
6. **Increase Overall Well Supply to Avoid New Storage**	▪ Able to provide storage capacity to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**

Short-List of Alternative Water Storage Solutions

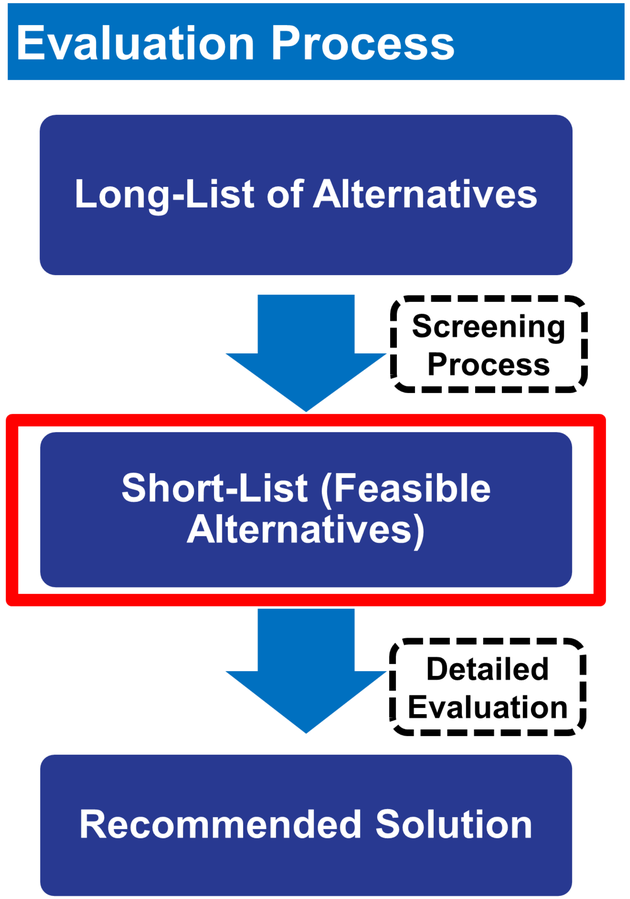
Two alternatives passed the screening process and were selected for detailed evaluation:

1) Storage Alternative A

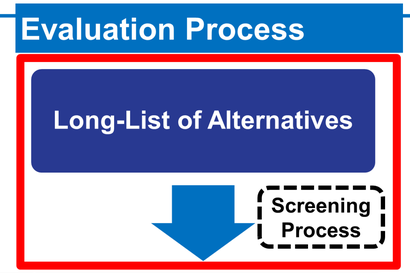
- Add New Storage Facility (Replace Existing Nobleton South Elevated Tank Storage Facility With Bigger Storage Facility)

2) Storage Alternative B

- Increase Overall Well Supply to Avoid New Storage



Screening Long-List of Alternative Wastewater Servicing Solutions



Solutions Considered to Address Water Supply Needs	Long-List of Alternative Water Supply Solutions Screening Summary	Screening Status
1. Do Nothing - Permit Growth Without Increasing Capacity	▪ Unable to provide wastewater capacity to meet forecasted growth ▪ Carried forward for comparative purposes only	**Fail**
2. Limit Growth Up To Existing Capacity	▪ Unable to provide wastewater capacity to meet forecasted growth	**Fail**
3. Reduce Inflow and Infiltration	▪ Unable to provide wastewater capacity to meet forecasted growth ▪ Recommended inflow/infiltration reduction be carried forward as part of overall servicing strategy to help reduce future infrastructure requirements	**Fail**
4. Expand and Upgrade the Existing Janet Avenue Pumping Station, Forcemain and Nobleton Water Resource Recovery Facility (WRRF) and Outfall	▪ Able to provide wastewater capacity to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**
5. Construct a New Pumping Station, Forcemain and New Water Resource Recovery Facility (WRRF) and Outfall	▪ Able to provide wastewater capacity to meet forecasted growth while meeting existing and proposed regulations, plans and policies	**Pass**
6. Convey Additional Flows to Neighbouring Water Resource Recovery Facilities	▪ Able to provide wastewater capacity to meet forecasted growth ▪ Does not meet requirements of Greenbelt Plan and inconsistent with recommendations of York Region Water and Wastewater Master Plan	**Fail**
7. Convey All Flows to Lake-based Treatment Systems	▪ Able to provide wastewater capacity to meet forecasted growth ▪ Does not meet requirements of Greenbelt Plan and inconsistent with recommendations of York Region Water and Wastewater Master Plan	**Fail**
8. Maintain Existing and Convey Additional Flows to Lake-based Treatment Facilities	▪ Able to provide wastewater capacity to meet forecasted growth ▪ Does not meet requirements of Greenbelt Plan and inconsistent with recommendations of York Region Water and Wastewater Master Plan	**Fail**

Short-List of Alternative Wastewater Servicing Solutions

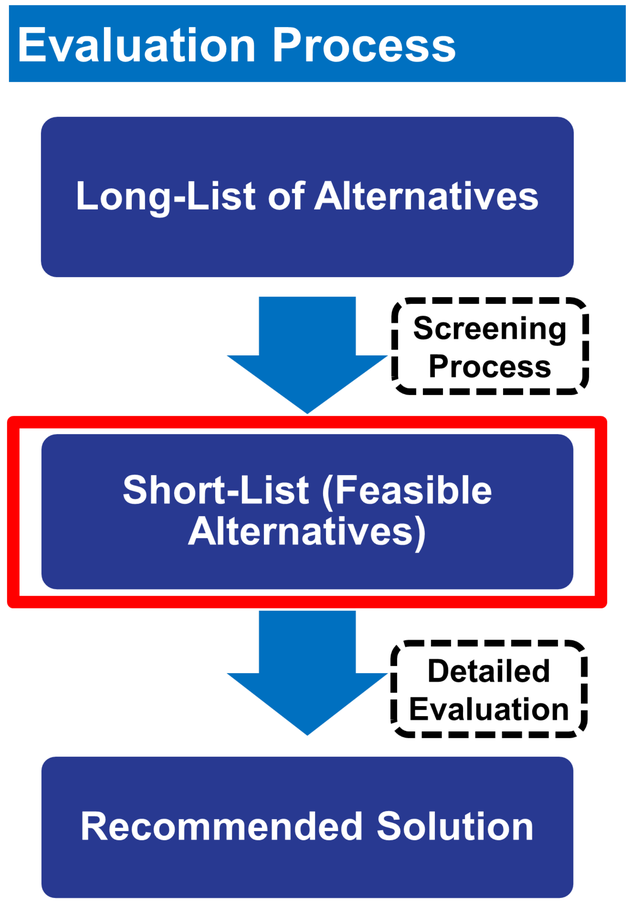
Two alternatives passed the screening process and were selected for detailed evaluation:

1) Wastewater Servicing Alternative A

- Expand and Upgrade the Existing Janet Avenue Pumping Station, Forcemain and Nobleton Water Resource Recovery Facility (WRRF) and outfall

2) Wastewater Servicing Alternative B

- Construct a New Pumping Station, Forcemain and New Water Resource Recovery Facility (WRRF) and outfall



Alternative Solutions Evaluation Criteria

When evaluating possible water and wastewater servicing solutions, a broad range of criteria were considered. Criteria were refined based on feedback obtained during Open House #1.

Natural Environment

- Aquatic Vegetation and Wildlife
- Terrestrial Vegetation and Wildlife
- Groundwater Resources
- Surface Water Resources
- Greenhouse Gas Emissions

Social & Cultural

- Short-term Community Impacts
- Long-term Community Impact
- Archaeological Sites
- Cultural/Heritage Features

Jurisdictional / Regulatory

- Land Requirements
- Ability to Accommodate Potential Future Regulatory Changes
- Permits and Approval

Technical

- Constructability
- Redundancy of Supply/Service
- Resilience to Climate Change
- Operations and Maintenance Requirements
- Adaptability to Existing Infrastructure
- Maximizing Use of Existing Infrastructure

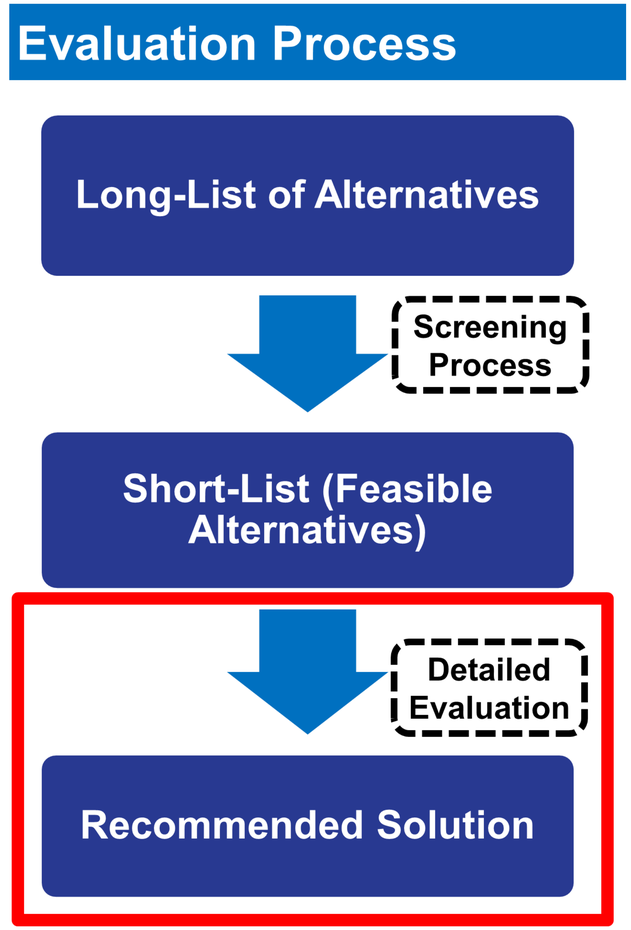
Economic

- Capital Cost
- Lifecycle Cost
- Land Acquisition Cost

Water Supply Alternatives Detailed Evaluation

Evaluation Category	Do Nothing Permit Growth Without Increasing Capacity	Supply A1: Increase Capacity of Existing Well #2 in Combination with New Production Well at Site F	Supply A2: Increase Capacity of Existing Well #2 in Combination with New Production Well at Site H	Supply B: Increase Capacity with Two New Production Wells	Supply C: Develop Blended System with Addition of Lake-Based Connection to Existing Wells
Natural Environment	🟢	🟡	🟡	🟡	🔴
Social & Cultural	🟢	🟡	🟢	🟡	🔴
Jurisdictional /Regulatory	🟡	🟡	🟢	🟡	🔴
Technical	🔴	🟡	🟢	🟡	🔴
Economic	🟢	🟡	🟢	🟡	🔴
Overall Rank	Not Applicable	2	**1**	3	4

Evaluation Process



Scoring Description

- 🟢 Low Impact / Most Preferred
- 🟡 Moderate Impact
- 🔴 Most Impact / Least Preferred

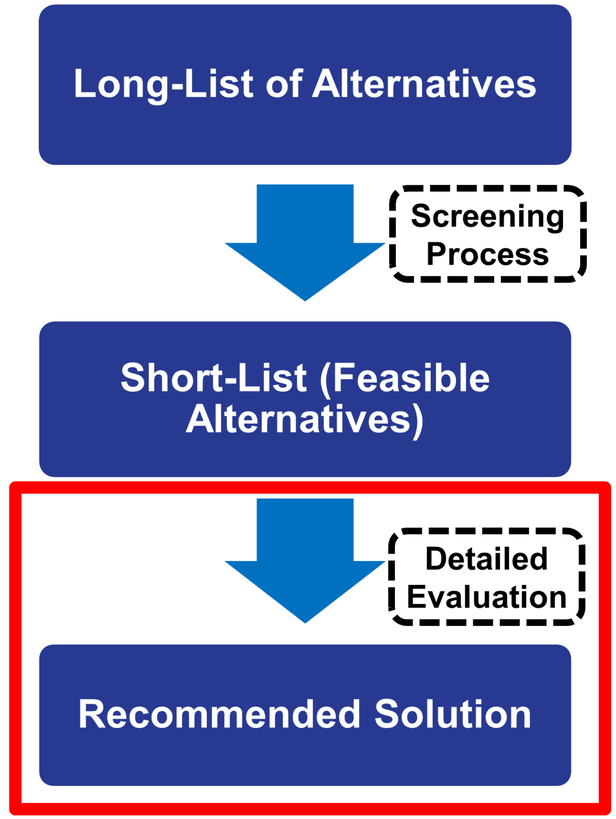
Water Supply Alternatives Detailed Evaluation: Summary of Evaluation

Evaluation Category	Summary of Evaluation
Natural Environment	▪ A1, A2 and B will have low/moderate impact to vegetation and wildlife and moderate greenhouse gas emissions ▪ C will have moderate to significant impact to vegetation and wildlife and high greenhouse gas emissions ▪ A1, A2 or B will have greater impact to groundwater resources than C, but not considered significantly greater
Social & Cultural	▪ All will have some short-term impacts during construction (increased traffic, noise, dust), C will have the greatest ▪ A1, B and C will have short-term impacts on traffic along Highway 27, C will have the most significant impacts ▪ A1, A2 and B have moderate long-term community impacts (water aesthetics, requires wellhead protection areas) ▪ A1, A2 and B have no impact on cultural or heritage features, C has some risk of impact
Jurisdictional /Regulatory	▪ All can accommodate potential future changes in drinking water quality requirements ▪ C crosses Greenbelt Plan's "Protected Countryside" making approvals difficult ▪ A1, B and C require land acquisition
Technical	▪ C provides best system redundancy (two sources) but requires the most construction and all new infrastructure ▪ A1, A2 and B will provide the required system redundancy ▪ A1 and A2 maximize use of existing Well Site #2, A2 also maximizes facility at Well Site #5 ▪ A1 and A2 require least operations and maintenance resources, B requires more (2 sites), C requires most (new water supply system)
Economic	▪ A2 has the lowest capital cost, A1 and B are moderate and C has the highest capital cost ▪ A1 and A2 have lowest overall total lifecycle cost, B is moderate and C is the highest ▪ A1, B and C all require land acquisition cost

Water Supply Alternatives Detailed Evaluation: Highest Ranked Alternative - Alternative A2

Evaluation Category	Summary of Evaluation
Natural Environment	A2 (along with A1 and B) ranked highest overall as they have least impact to aquatic/terrestrial vegetation and wildlife, surface water and groundwater resources and greenhouse gas emissions overall.
Social & Cultural	A2 ranked highest overall as construction is confined to existing sites, minimizing short- and long-term impacts, and has no impact to cultural or heritage features.
Jurisdictional /Regulatory	A2 ranked highest overall as it can accommodate potential future changes in drinking water quality requirements, is less challenging to approve than C and does not require land acquisition.
Technical	A2 ranked highest overall as it requires the least amount of construction, maximizing use of existing sites and facilities, minimizes the additional operations and maintenance resources required and avoids traffic impacts to Highway 27 during construction.
Economic	A2 ranked highest overall as it has no land acquisition cost, lowest capital cost and lowest overall lifecycle cost
Overall	**A2 ranked highest overall, ranking 1st in 4 of the 5 evaluation categories and tied with A1 and B in the 5th category.**

Evaluation Process



Water Storage Alternatives Detailed Evaluation

Evaluation Category	Do Nothing: Permit Growth Without Increasing Capacity	Storage A: New Storage Facility (Replace Existing Nobleton South Elevated Tank Storage Facility With Bigger Storage Facility)	Storage B: Increase Overall Well Supply to Avoid New Storage
Natural Environment	🟢	🟢	🟢
Social & Cultural	🟢	🟢	🟢
Jurisdictional /Regulatory	🟡	🟡	🟢
Technical	🔴	🟡	🟢
Economic	🟢	🔴	🟡
Overall Rank	Not Applicable	2	**1**

Evaluation Process

- Long-List of Alternatives
- ↓ Screening Process
- Short-List (Feasible Alternatives)
- ↓ Detailed Evaluation
- Recommended Solution

Scoring Description

- 🟢 Low Impact / Most Preferred
- 🟡 Moderate Impact
- 🔴 Most Impact / Least Preferred

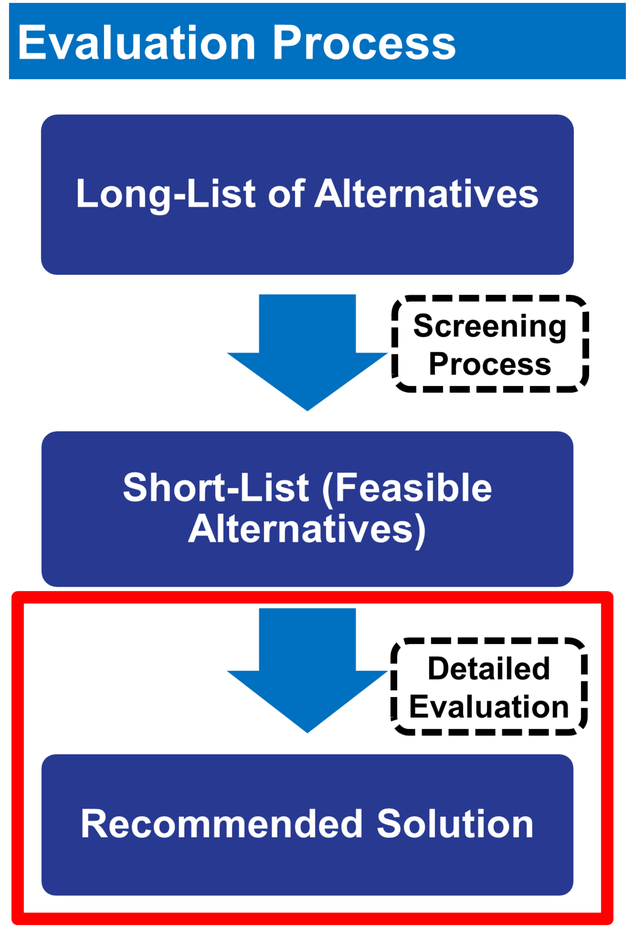
Water Storage Alternatives Detailed Evaluation: Summary of Evaluation

Evaluation Category	Summary of Evaluation
Natural Environment	▪ A and B will have low or no significant impact to vegetation and wildlife, and surface water resources and greenhouse gas emissions ▪ B will require minimally greater use of groundwater resources than A (increase overall well supply versus new storage) but neither has significant impact on existing resources
Social & Cultural	▪ Both will have some short-term impacts during construction (increased traffic, noise, dust), A will have greater impact due to construction of new storage facility ▪ Neither will have significant long-term community impacts or impact to cultural or heritage features
Jurisdictional /Regulatory	▪ Both can accommodate potential future changes in drinking water quality requirements ▪ A requires more approvals than B ▪ A may require some land acquisition
Technical	▪ A requires the most construction ▪ Both provide redundancy, through greater storage (A) and greater supply (B) ▪ Neither has significant impact to operations and maintenance resources required ▪ B maximizes use of existing infrastructure whereas A replaces existing functional storage facility
Economic	▪ A has higher capital and lifecycle cost than B ▪ A may require some land acquisition costs

Water Storage Alternatives Detailed Evaluation: Highest Ranked Alternative - Alternative B

Evaluation Category	Summary of Evaluation
Natural Environment	B and A ranked equally, as neither has significant impact on aquatic/terrestrial vegetation and wildlife, surface water and groundwater resources, or greenhouse gas emissions.
Social & Cultural	B and A ranked equally, with B being marginally better than A due to short-term impacts associated with construction of new tank. Overall, A and B have similarly minimal Social & Cultural impacts.
Jurisdictional /Regulatory	B ranked highest overall with no additional land acquisition and fewer approval requirements.
Technical	B ranked highest overall due to its ability to maximize the use of existing infrastructure while avoiding unnecessary new assets. This results in less construction, minimizing potential impacts.
Economic	B ranked highest overall due to its lower capital, lifecycle and land acquisition costs. B maximizes investment in existing infrastructure (storage facility) while only marginally increasing cost of well supply.
Overall	**B ranked highest overall, ranking 1st in 3 of the 5 evaluation categories and ranking equally to A in the two other categories.**

Evaluation Process



Recommended Water Servicing Solutions

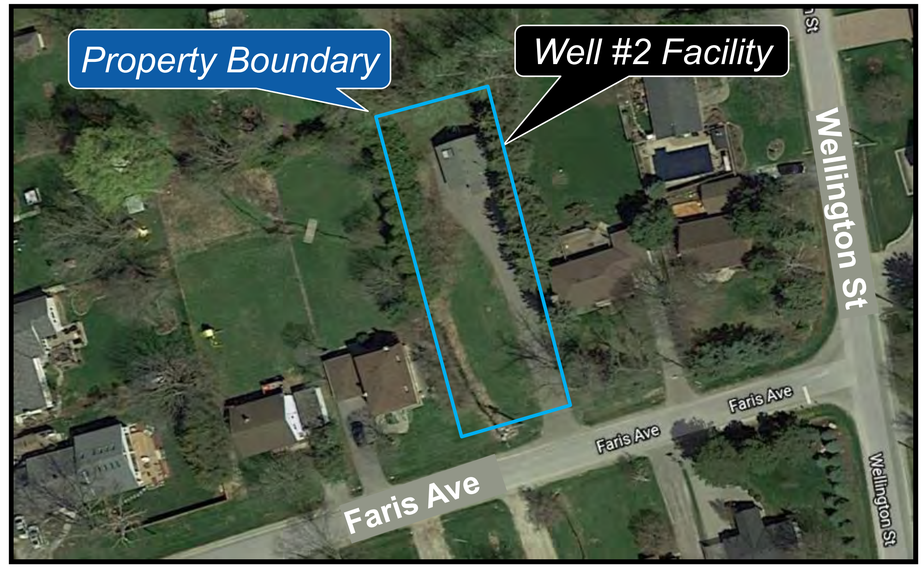
Evaluation has identified the recommended water supply and storage solutions

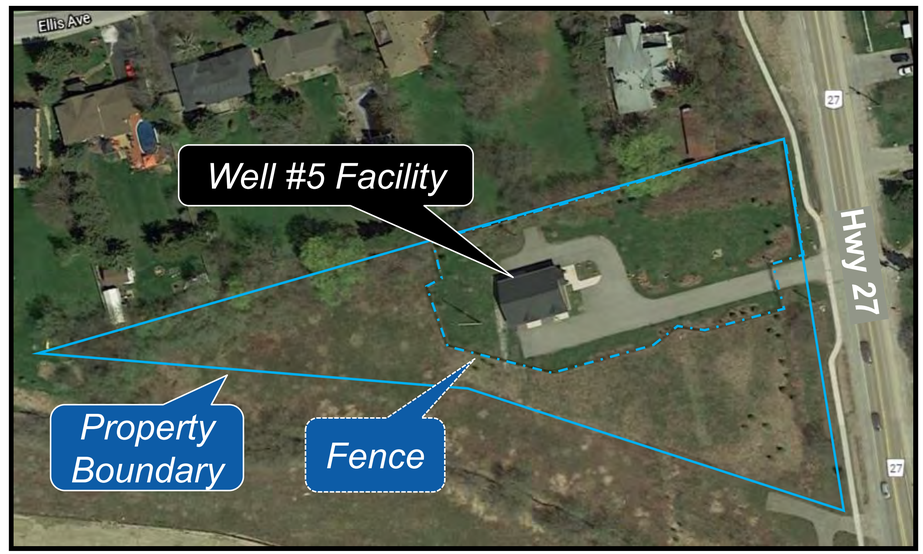
Water Supply Alternative A2

- Increase Capacity at Existing Well #2
  - Upgrades to facility to be confined to existing site
- Add New Well Supply at Site H
  - Located on same site as Existing Well #5

Water Storage Alternative B

- Increase Overall Well Supply to Avoid New Storage





Wastewater Alternatives Detailed Evaluation

Evaluation Category	Do Nothing: Permit Growth Without Increasing Capacity	Wastewater A: Expand and Upgrade the Existing Janet Avenue Pumping Station, Forcemain and Nobleton WRRF and Outfall	Wastewater B: Construct a New Pumping Station, Forcemain and WRRF and Outfall
Natural Environment	🟢	🟢	🟡
Social & Cultural	🟢	🟢	🟡
Jurisdictional /Regulatory	🟡	🟢	🟡
Technical	🔴	🟡	🔴
Economic	🟢	🟢	🟡
Overall Rank	Not Applicable	**1**	2

Evaluation Process

- Long-List of Alternatives
- ↓ Screening Process
- Short-List (Feasible Alternatives)
- ↓ Detailed Evaluation
- Recommended Solution

Scoring Description

- 🟢 Low Impact / Most Preferred
- 🟡 Moderate Impact
- 🔴 Most Impact / Least Preferred

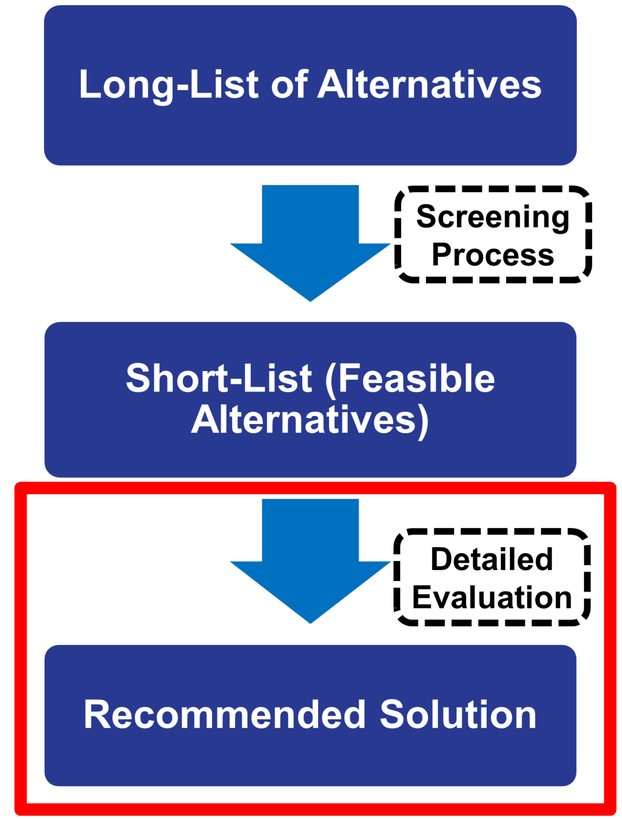
Wastewater Alternatives Detailed Evaluation: Summary of Evaluation

Evaluation Category	Summary of Evaluation
Natural Environment	▪ A is expected to have least impact to vegetation and wildlife as expansion is limited to existing sites and facilities ▪ Neither A or B is expected to impact groundwater resources ▪ A and B could impact surface water resources (discharge to Humber River) but design will mitigate impacts ▪ B will have greater impact on greenhouse gas emissions (operating two new facilities) than A (upgraded facilities)
Social & Cultural	▪ A will have moderate short-term impacts during construction (increased traffic, noise, dust), B will have greater impact ▪ A will have some long-term community impacts (e.g. increase in local traffic for sludge haulage), B will have greater impact (two new facilities) ▪ B requires further investigation on impact to archeological sites and cultural/heritage features
Jurisdictional /Regulatory	▪ Both can accommodate potential future changes in drinking water quality requirements ▪ B requires land acquisition for new facilities, A may require limited additional land ▪ B requires extensive new permits/approvals, A requires some amended and additional permits/approval
Technical	▪ A requires moderate amounts of construction to upgrade/expand, B requires more to build new infrastructure ▪ B provides greater redundancy than A (new facilities and infrastructure vs expanded) ▪ B requires greater additional operations and maintenance resources (expanded facilities require less additional operations and maintenance) ▪ A maximizes use of existing Water Resource Recovery Facility (WRRF) and Pumping Station, B does not
Economic	▪ A has moderate capital, operations and maintenance, lifecycle and land acquisition costs overall ▪ B has high capital, operations and maintenance, lifecyle and land acquisition costs overall

Wastewater Alternatives Detailed Evaluation: Highest Ranked Alternative - Alternative A

Evaluation Category	Summary of Evaluation
Natural Environment	A ranked highest overall as impacts are limited to upgraded existing sites, mitigating impacts to aquatic/terrestrial vegetation and wildlife, as well as greenhouse gas emissions.
Social & Cultural	A ranked highest overall as impacts are limited to upgraded existing sites. This mitigates short-term construction impacts and minimizes potential impacts to archeological sites and cultural/heritage features. No significant long-term impacts expected.
Jurisdictional /Regulatory	A ranked highest as it requires limited land acquisition and fewer permits/approvals.
Technical	A ranked highest overall due to its ability to maximize the use of existing infrastructure and limit additional operations and maintenance resource requirements.
Economic	A ranked highest overall due to its lower capital, lifecycle and land acquisition costs.
Overall	**A ranked highest overall, ranking 1st in 5 of the 5 evaluation categories.**

Evaluation Process



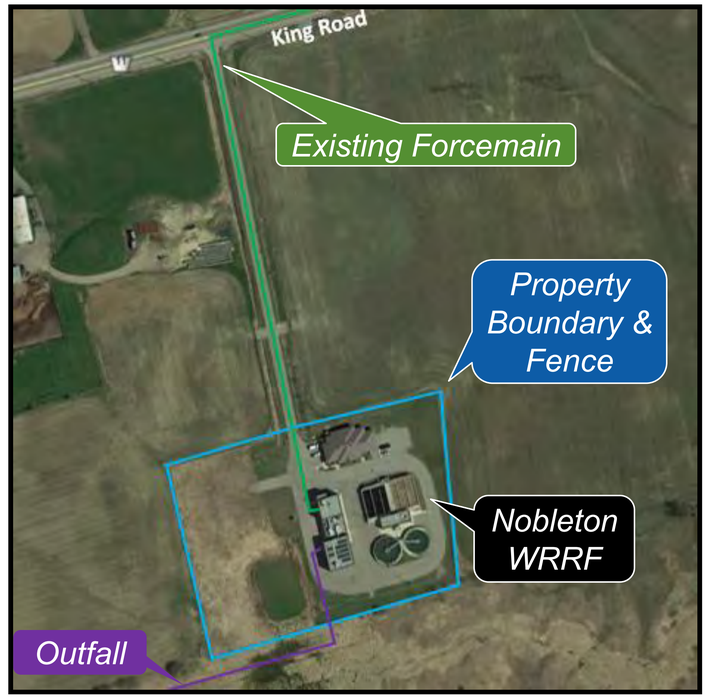
Recommended Wastewater Servicing Solution

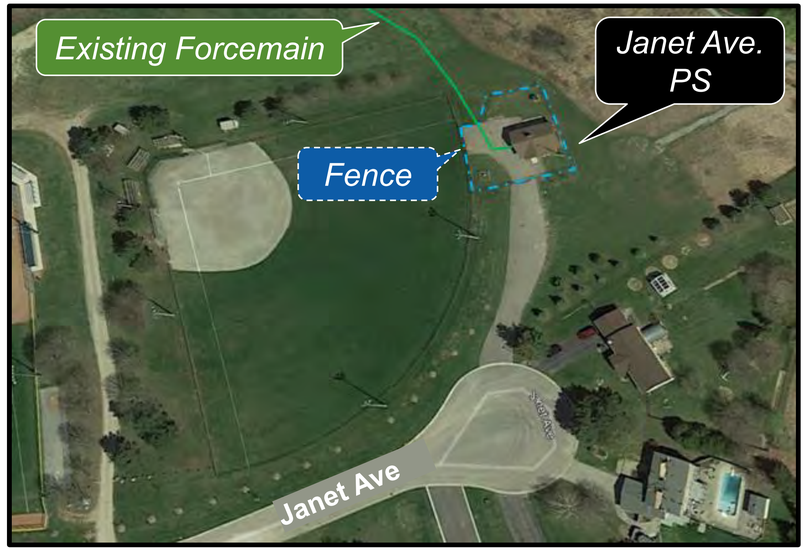
Evaluation has identified the recommended wastewater servicing solution

Wastewater Servicing Alternative A

- Expand and Upgrade the Existing Nobleton Water Resource Recovery Facility (WRRF) and outfall
  - Facility upgrades to be confined to existing site

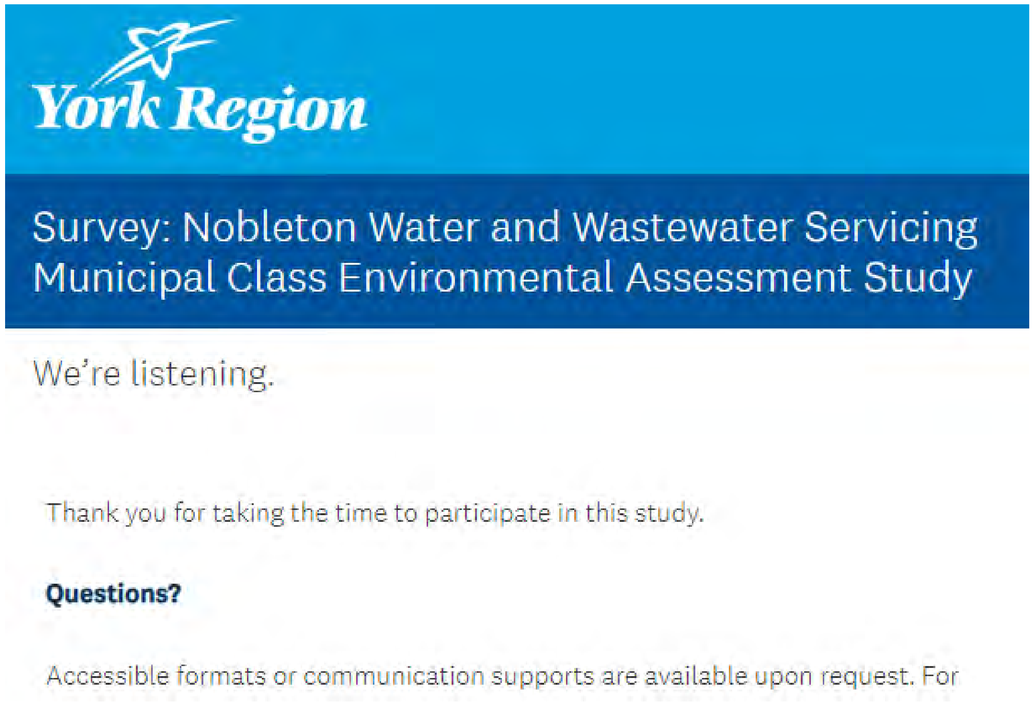
- Expand and Upgrade the Existing Janet Avenue Pumping Station and forcemain
  - Located on same site as existing Janet Avenue Pumping Station
  - Forcemain to be twinned or replaced from Janet Pumping Station to Nobleton WRRF





What's Next? Share your thoughts – we're listening.

- To provide your feedback, complete the survey. Survey can be accessed at **york.ca/nobletonea.**
- Stay informed and sign up for project updates by visiting our project webpage **york.ca/nobletonea.**
- Please complete the survey by **Friday December 11th, 2020.**


York Region

Survey: Nobleton Water and Wastewater Servicing Municipal Class Environmental Assessment Study

We're listening.

Thank you for taking the time to participate in this study.

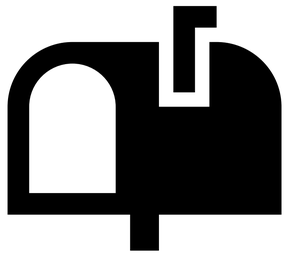
Questions?

Accessible formats or communication supports are available upon request. For

What's Next? Share your thoughts – we're listening.

Please contact us if you are unable to access the online survey.

afshin.naseri@york.ca



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Appendix E – Survey Questions

Open House 2 Survey: Nobleton Water and Wastewater Servicing Municipal Class Environmental Assessment Study

1. Did you attend a live online open house presentation?
2. Do you have any questions or comments on the evaluation process for water servicing?
3. Do you have any comments on the preferred alternative solution for water servicing?
4. Do you have any questions or comments on the evaluation process for wastewater servicing?
5. Do you have any comments on the preferred alternative solution for wastewater servicing?
6. Are there additional issues you would like to see addressed in the next phase?
7. Do you have any additional thoughts or comments about this project?
8. On a scale of 1 (poor) to 5 (excellent), how would you rate the presentation format overall?
9. Please let us know about your experience: What did you like best or find most useful about the presentation, or consultation materials? Did you encounter any technical difficulties with the presentation or consultation materials? Do you have any other feedback or comments for us on the consultation process or format?