

Appendix B

Revised Evaluation of Alternatives



Appendix B. Revised Evaluation of Alternatives

Table B-1. Evaluation of Alternatives for Green Lane Water Treatment Plant – Technical Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Constructability of Proposed Well House	An evaluation of the conditions of the proposed Well Site location, based on the following: 1. Site access 2. Constructability (for example, geotechnical or proximity to adjacent buildings) 3. Proximity to municipal distribution system and large-diameter watermain 4. Proximity to sanitary collection system for building and process drainage	1. Alternative requires construction of access road off busy 4-lane road or through future development area. 2. There is moderate rolling topography in area requiring some cut and fill; greenfield site with suitable geotechnical conditions. 3. Existing watermain at Green Lane and Yonge would be extended along Green Lane. 4. Existing sanitary servicing is in close proximity to the Well Area. Area has planned watermain and existing sanitary utilities in close proximity; however, it has less favourable topography. No Preference	Similar as the Original E.A. Study Consolidates two well facilities into a single site Preferred
Aquifer Productivity	An evaluation of the productivity potential of each well, based on the following: 1. Aquifer Thickness 2. Available Drawdown 3. Well Screen Transmitting Capacity 4. Step-Test Specific Capacity 5. Step-Test Drawdown 6. Constant Rate Test Specific Capacity 7. Constant Rate Test Drawdown	Second-most productive aquifer for the following reasons: 1. Aquifer Thickness: 31 metres 2. Available Drawdown: 33 metres 3. Well Screen Transmitting Capacity: 104 L/s 4. Step-Test Specific Capacity (at 55 L/s): 71 L/s per metre 5. Step-Test Drawdown (55 L/s for 1 hour): 0.77 metre 6. Constant Rate Test Specific Capacity: 15 L/s per metre 7. Constant Rate Test Drawdown (55 L/s for 72 hours): 3.8 metres Not Preferred	Most productive aquifer for the following reasons: 1. Aquifer Thickness: same aquifer 2. Safe Available Drawdown: 48.6 metres, including a 7-metre clearance above the top of the screen (Well 2) 3. Well Screen Transmitting Capacity: 146 L/s (Well 2) 4. Step-Test Specific Capacity (at 100 L/s): 65.9 L/s per metre (Well 2) 5. Step-Test Drawdown (at 100 L/s for 1 hour): 1.52 metres (Well 2) 6. Constant Rate Test Specific Capacity: Not applicable. 7. Constant Rate Test Drawdown: a. Well 1: 2.84 metres (at 100 L/s for 24 hours) and 11.05 (200 L/s for 96 hours) b. Well 2: 3.63 metres (at 100 L/s for 24 hours) and 10.82 (200 L/s for 96 hours) Preferred

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Treatment Requirements	An evaluation of the raw well water quality and review of treatment requirements, based on the following: 1. Preliminary water quality results and all parameters listed in Ontario Regulation 169/03 (including levels of iron, manganese, nitrate, pH, sodium, total dissolved solids, hardness, methane, and organic nitrogen). 2. Consideration is to be given to difficulty of treatment, operational requirements, and associated costs. 3. Review of Wellhead Protection Areas to determine any potential future treatment and monitoring requirements by identifying any risks within that zone in accordance with Source Water Protection standards of the <i>Clean Water Act</i>.	1. Hardness and iron above Ontario Drinking Water Quality Standards and presence of manganese and methane. At this level, Original Class E.A. Study suggested that treatment of manganese and methane was not required. 2. Include treatment of iron (sequestration) – not efficient according to the GWTS (Jacobs 2020). 3. York Region has committed to delineating Wellhead Protection Areas, as outlined in the <i>Clean Water Act Technical Rules</i>, prior to commissioning new wells as part of regional water supply system Not Preferred	1. Hardness and iron exceeding Ontario Drinking Water Quality Standards. Presence of manganese and methane at levels less than York Region guideline for treatment (York Region 2022d) 2. Iron and manganese removal treatment is required, with provision for future methane treatment. Improved water quality. 3. York Region has committed to delineating Wellhead Protection Areas, as outlined in the <i>Clean Water Act Technical Rules</i>, prior to commissioning new wells as part of regional water supply system Preferred
Approval Requirements	An evaluation of the approval requirements specific to a proposed location, based on consideration of the following: 1. Municipal approvals (site plan approval, building permit) 2. Ministry of Environment, Conservation and Parks (Permit to Take Water, Drinking Water Works Permit, Municipal Drinking Water Licence) 3. Oak Ridges Moraine Conservation Plan 4. Lake Simcoe Region Conservation Authority 5. Ministry of Natural Resources and Forestry (<i>Endangered Species Act</i>).	1. York Region will obtain appropriate municipal approvals from the Town of East Gwillimbury, including site plan approval and a building permit. 2. York Region will amend the current Permit to Take Water, Drinking Water Works Permit, and Municipal Drinking Water Licence from the Ministry of Environment, Conservation and Parks. 3. The Well Area is not located within the Oak Ridges Moraine. 4. York Region will not be required to obtain approval from the Lake Simcoe Region Conservation Authority for construction within the Lake Simcoe Region Conservation Authority Regulated Area under Ontario Regulation 179/06 (Development, Interference with Wetlands, and Alterations to Shorelines and Watercourses), because the Well Site will be located outside of the Regulated Area. 5. No permit or approval requirements are anticipated under the <i>Endangered Species Act</i>. No Preference	Same as the Original E.A. Study No Preference
Technical Category Ranking		Not Preferred Lower aquifer productivity, iron treatment not efficient	Preferred Higher aquifer productivity, iron treatment efficient (improved water quality)

Notes:
E.A. = Environmental Assessment
GWTS = Groundwater Treatment Strategy
L/s = litre(s) per second

Table B-2. Evaluation of Alternatives for Green Lane Water Treatment Plant – Natural Environment Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect of Construction and Operation of Well House on Aquatic Species and Habitat	An evaluation of the effects of well house construction and operation (excluding groundwater drawdown) on aquatic species and habitat, based on the following: 1. Presence of aquatic species potentially affected temporarily or permanently, including Species at Risk (Endangered, Threatened) and Species of Conservation Concern (Special Concern, provincially rare) 2. Area of temporary or permanent loss of aquatic features or categorical loss of habitat functions by type – watercourses by sensitivity (thermal regime)	1. Potential effects: a. Two permanent, warmwater tributaries of the East Holland River are present within the Well Area; however, these features are more than 120 metres away from the Well Site. Therefore, disturbance to aquatic species in these features is not anticipated from the well house construction. b. No aquatic Species at Risk or Species of Conservation Concern are identified as potentially occurring within the Well Area; therefore, disturbance to these species is not anticipated. Mitigation measures: No mitigation required (most preferred). 2. Potential effects: Two permanent, warmwater tributaries of the East Holland River are present within the Well Area; however, these features are more than 120 metres away from the Well Site. Therefore, disturbance to aquatic features is not anticipated from well house construction or operation. Mitigation measures: No mitigation required (most preferred). Net effects: No effects on aquatic species and habitat anticipated. No Preference	Same as the Original E.A. Study No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect of Construction and Operation of Well House on Terrestrial Species and Habitat	An evaluation of the effects of well house construction or operation (excluding groundwater drawdown) on terrestrial species and habitat, based on the following: 1. Presence of terrestrial species potentially affected temporarily or permanently, including Species at Risk (Endangered, Threatened) and Species of Conservation Concern (Special Concern, provincially rare 2. Area of temporary or permanent loss of terrestrial features or categorical loss of habitat functions by type, including Provincially Significant Wetland, Locally Significant Wetland, Environmentally Significant Areas, Areas of Natural and Scientific Interest, Significant Wildlife Habitat, and others	1. Potential effects – Construction: Disturbance to terrestrial species potentially occurring in agricultural fields within the Well Site is not anticipated as a result of this project, because the area is owned by a developer with plans for future development. Mitigation measures – Construction: No mitigation required (most preferred). Potential effects – Operation: No disturbance to terrestrial species from well house operation is anticipated. Mitigation measures – Operation: No mitigation required (most preferred). 2. Potential effects – Construction: Disturbance to unevaluated wetlands adjacent to the Well Site from accidental damage to vegetation, and erosion and sedimentation during construction. Mitigation measures – Construction: Disturbance to unevaluated wetlands adjacent to the Well Site would be avoided by clearly defining the work area and implementing erosion and sediment control measures to prevent accidental damage to vegetation, and erosion and sedimentation. Potential effects – Operation: Disturbance to terrestrial habitat within the Well Area from stormwater runoff. Mitigation measures – Operation: Develop a stormwater management plan prior to construction to prevent disturbance to terrestrial habitat from stormwater runoff (moderately preferred). Net effects: Effects to terrestrial habitat and species avoided through application of mitigation measures. No Preference	Same as the Original E.A. Study No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Aquatic Species and Habitat from Groundwater Drawdown	An evaluation of the effects on aquatic species and habitat from groundwater drawdown, based on the following: 1. Presence of aquatic species potentially affected temporarily or permanently, including Species at Risk (Endangered, Threatened) and Species of Conservation Concern (Special Concern, provincially rare) 2. Area of temporary or permanent loss of aquatic features or categorical loss of functions by type – watercourses by sensitivity type (thermal regime)	1. Potential effects: a. Disturbance to potentially occurring aquatic species in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model's predicting that pumping the new wells causes less than 1 metre of drawdown in the shallow system over a 20-year pumping period. b. No aquatic Species at Risk or Species of Conservation Concern are documented near Well Area 6; therefore, disturbance to these species as a result of groundwater drawdown is not anticipated. Mitigation measures: No mitigation required, because no effects are anticipated. 2. Potential effects: Disturbance to two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model's predicting that pumping the new wells causes less than 1 metre of drawdown in the shallow system over a 20-year pumping period. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Effects on aquatic species and habitat from groundwater drawdown not anticipated. No Preference	1. Potential effects: a. Disturbance to potentially occurring aquatic species in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. b. No aquatic Species at Risk or Species of Conservation Concern are documented near Well Area 6; therefore, disturbance to these species as a result of groundwater drawdown is not anticipated. Mitigation measures: No mitigation required, because no effects are anticipated. 2. Potential effects: Disturbance to two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Effects on aquatic species and habitat from groundwater drawdown are not anticipated. No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Terrestrial Species and Habitat from Groundwater Drawdown	An evaluation of the effects on terrestrial species and habitat from groundwater drawdown, based on the following: 1. Presence of terrestrial species potentially affected temporarily or permanently, including Species at Risk (Endangered, Threatened) and Species of Conservation Concern (Special Concern, provincially rare), and area-sensitive species 2. Area of temporary or permanent loss of terrestrial features or categorical loss of habitat functions by type, including Provincially Significant Wetland, Locally Significant Wetland, Environmentally Significant Areas, Areas of Natural and Scientific Interest, Significant Wildlife Habitat, and others	1. Potential effects: Disturbance to terrestrial species potentially occurring in two tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model’s predicting that pumping the new wells causes less than 1 metre of drawdown in the shallow system over a 20-year pumping period. Mitigation measures: No mitigation required, because no effects are anticipated. 2. Potential effects: Disturbance to terrestrial features associated with two tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model’s predicting that pumping of the new wells causes less 1 metre of drawdown in the shallow system over a 20-year pumping period. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Effects on terrestrial species and habitat from groundwater drawdown are not anticipated. No Preference	1. Potential effects: Disturbance to terrestrial species potentially occurring in two tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. Mitigation measures: No mitigation required, because no effects are anticipated. 2. Potential effects: Disturbance to terrestrial features associated with two tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Effects on terrestrial species and habitat from groundwater drawdown are not anticipated. No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Groundwater Quality	An evaluation of temporary or long-term change in groundwater quality caused by the following: 1. Groundwater drawdown	1. Potential effects: Temporary or long-term change in groundwater quality caused by groundwater drawdown is not anticipated, because of the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick), and the implementation of Source Water Protection measures. Aquifer was shown to be of sufficient quality for a municipal water supply well through pumping test water quality sampling. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to groundwater quality from groundwater drawdown not anticipated. No Preference	1. Potential effects: Temporary or long-term change in groundwater quality caused by groundwater drawdown is not anticipated, because of the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick), and the implementation of Source Water Protection measures. Aquifer was shown to be of sufficient quality for a municipal water supply well through pumping test water quality sampling. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to groundwater quality from groundwater drawdown are not anticipated. No Preference
Effect on Surface Water Quantity	An evaluation of temporary or long-term change in quantity of surface water bodies (including those identified in the “Proximity to wetlands/streams” criteria used to assess the Potential Alternative Well Areas) caused by the following: 1. Well house construction or operation 2. Groundwater drawdown during well operation	1. Potential effects: Temporary or long-term change in surface water quantity caused by groundwater drawdown is not anticipated. Mitigation measures: No mitigation required. 2. Potential effects: Temporary or long-term change in surface water quantity in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping of the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model’s predicting that pumping the new wells causes less than 1 metre of drawdown in the shallow system over a 20-year pumping period. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to surface water quantity are not anticipated. No Preference	1. Potential effects: Temporary or long-term change in surface water quantity caused by groundwater drawdown is not anticipated. Mitigation measures: No mitigation required. 2. Potential effects: Temporary or long-term change in surface water quantity in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is not anticipated with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to surface water quantity are not anticipated. No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Surface Water Quality	An evaluation of temporary or long-term change in quality of surface water bodies (including those identified in the "Proximity to wetlands/streams" criteria used to assess the Potential Alternative Well Area) caused by the following: 1. Well house construction or operation 2. Groundwater drawdown during well operation	1. Potential effects: Temporary or long-term change in surface water quality water caused by well house construction and operation is not anticipated. Mitigation measures: No mitigation required. 2. Potential effects: Temporary or long-term change in surface water quality in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is considered low with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 72-hour pumping test indicated that the pumping did not cause drawdown. Screening results from the long-term groundwater modelling indicated that pumping of the new well would not cause drawdown in the shallow system (Model Layers 1 and 2). The absence of an impact was defined as the model predicting that pumping of the new wells causes less than 1 metre of drawdown in the shallow system over a 20-year pumping period. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to surface water quality are not anticipated. No Preference	1. Potential effects: Temporary or long-term change in surface water quality water caused by well house construction and operation is not anticipated. Mitigation measures: No mitigation required. 2. Potential effects: Temporary or long-term change in surface water quality in two warmwater tributaries of the East Holland River and two unevaluated wetlands within 500 metres of the Well Site as a result of groundwater drawdown during well operation is considered low with the presence of an aquitard greater than 20 metres in thickness (approximately 50 metres thick). Water level monitoring in the shallow groundwater system during the 96-hour pumping test indicated that the pumping had no influence in the nearby shallow monitors. In addition, influence on the shallow system is not expected with prolonged pumping of the new wells based on the results of the pumping test. Mitigation measures: No mitigation required, because no effects are anticipated. Net effects: Changes to surface water quality are not anticipated. No Preference
Natural Environment Category Ranking		No Preference No effects to aquatic or terrestrial species or habitat are anticipated. Net effects are not anticipated as a result of siting considerations, standard construction best management practices.	No Preference No effects to aquatic or terrestrial species or habitat are anticipated. Net effects are not anticipated as a result of siting considerations, standard construction best management practices.

Note:
E.A. Environmental Assessment

Table B-3. Evaluation of Alternatives for Green Lane Water Treatment Plant – Built Environment Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Existing or Future Planned Residences, Businesses, or Community, Institutional or Recreational Facilities	An evaluation of the effects on existing or future planned buildings, based on the following: 1. Displacement or temporary or permanent disruption to residences, businesses, or community, institutional, and recreational facilities 2. Future planned or approved land uses, including those affected by the addition of new Wellhead Protection Areas – may include existing and future agricultural operations, Environmental Protection Areas, and the Oak Ridges Moraine Conservation Plan Area designations	1. Potential effects: No existing residences, businesses, or community, institutional, or recreational facilities within the Alternative Well Area; minimal disruption associated with constructing utilities because the area has existing sanitary servicing and watermain planned. Mitigation measures: No mitigation required. 2. Potential effects: a. No changes required to the approved land use designations to accommodate the Well Site because it is a permitted use in the land use designations associated with Well Area 6, according to Section 4.15.1 of the 2014 East Gwillimbury Official Plan (In Effect). b. Potential disruption to future land uses through the addition of a new Wellhead Protection Area. Mitigation measures: No applicable mitigation measures for the disruption to future land uses. Net effects: Area has the fewest impacts on existing nearby residences. The addition of a new Wellhead Protection Area could affect future development. No Preference	Same as the Original E.A. Study No Preference
Effect on Property (ownership, size, and willingness of property owner)	An evaluation of effects on properties, based on the following: 1. Total area of property acquisition required (hectares), whether property is privately or publicly owned, and willingness of property owner	Property acquired. No Preference	Property acquired. No Preference

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Existing Utility Infrastructure	An evaluation of effects on existing utilities, based on the following: 1. Disruption to existing major utilities and duration of adverse effects	1. Potential effects: a. Potential temporary disruption to existing utilities during construction. b. No permanent disruption to major utilities during well house operation. Mitigation measures: Temporary disruption to existing major utilities will be mitigated by standard construction best management practices. No mitigation required for permanent disruption to major utilities. Net effects: Effects on existing utilities will be mitigated by standard construction best management practices. No Preference	Same as the Original E.A. Study No Preference
Effect on Existing Agricultural Operations	An evaluation of effects on existing agricultural operations, based on the following: 1. Presence of active agricultural operations	1. Potential effects: Area is owned by a developer with plans for future development; as such, effects on agricultural operations from this project are not anticipated. Mitigation measures: No mitigation required. Net effects: No effects on agricultural operations anticipated as a result of this project. No Preference	Same as the Original E.A. Study No Preference
Effect on Private Wells (groundwater quality and quantity)	An evaluation of effects on private wells, based on the following: 1. Comparison of the density of private wells near each well	1. Potential effects: The screening results from the numerical groundwater modelling indicated that additional interference drawdown in all private wells will be less than 2 metres, with the exception of one well with 2 to 3 metres estimated as a result of operating the new well under constant pumping conditions. Mitigation measures: Interference drawdown in the system will be regularly assessed by routinely measuring aquifer water levels in York Region's network of monitoring wells. If required, this impact would be mitigated by adjusting the pumping rate and pattern at the Well Area 6 – Green Lane well. Such mitigations will be developed in detail during the existing YSA Permit to Take Water amendment process. Net effects: With the implementation of mitigation measures, as required, adverse effects on private wells are not anticipated. Preferred	1. Potential effects: The hydrogeological assessment indicated that 200 private wells within the area of focus could be negatively affected by prolonged pumping of Green Lane wells. This assessment was based on a desktop study, and the results are to be verified through a future detailed private and non-municipal Permit to Take Water well investigation. Mitigation measures: Interference drawdown in the system will be regularly assessed by routinely measuring aquifer water levels in York Region's network of monitoring wells. If required, this impact would be mitigated by adjusting the pumping rate, pump intake, and pattern at the Well Area 6 – Green Lane well or other York Region production wells. Such mitigations will be developed in detail during the existing YSA Permit to Take Water amendment process. Refer to <i>Green Lane Well Site Groundwater Resource Evaluation Report</i> , which is provided in Appendix A-2 . Net effects: With the implementation of mitigation measures, as required, adverse effects on private wells are not anticipated. Not Preferred

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Municipal Wells (groundwater quality and quantity)	An evaluation of effects on municipal wells, based on the following: 1. Comparison of the density of municipal wells near each well 2. Distance to other permitted takers	1. Potential effects: There are only York Region municipal wells near the new well. The screening results from the numerical groundwater modelling indicated that any interference drawdown caused by pumping the new wells would be offset by recovery in the aquifer. This recovery would be caused by the reduction in pumping required to offset the volume of water pumped at the new wells and maintain the overall system taking at the permitted level (that is, no increase in the overall system taking). This recovery would be local to each municipal well where pumping was reduced. Mitigation measures: Interference drawdown in the system will be regularly assessed by routinely measuring aquifer water levels in York Region's network of monitoring wells. If required, this impact would be mitigated by adjusting the pumping rate and pattern at the Well Area 6 – Green Lane well. Such mitigations will be developed in detail during the existing YSA Permit to Take Water amendment process. 2. Potential effects: Negative effects to other Permit to Take Water holders are not anticipated. Mitigation measures: No mitigation required. Net effects: With the implementation of mitigation measures, as required, adverse effects on municipal wells are not anticipated. Preferred	1. Potential effects: There are only York Region municipal wells near the new well. The screening results from the numerical groundwater modelling indicated that up to eight production wells could be negatively affected by prolonged pumping of Green Lane wells should the current pump intake not be adjusted. Mitigation measures: Interference drawdown in the system will be regularly assessed through the routine measurement of aquifer water levels in York Region's network of monitoring wells. If required, this impact would be mitigated by adjusting the pumping rate, pump intake, and pattern at the Well Area 6 – Green Lane well or other York Region production wells. Such mitigations will be developed in detail during the existing YSA Permit to Take Water amendment process. Refer to <i>Green Lane Well Site Groundwater Resource Evaluation Report</i>, which is provided in Appendix A-.2 2. Potential effects: Negative effects to other Permit to Take Water holders are not anticipated. Mitigation measures: No mitigation required. Net effects: With the implementation of mitigation measures, as required, adverse effects on municipal wells are not anticipated. Not Preferred
Built Environment Category Ranking		Preferred Alternative has the least disruption to existing private and municipal and non-municipal permitted-to-take-groundwater holders, although adverse effects are not anticipated with the implementation of mitigation measures, as required.	Not Preferred Alternative has higher disruption to existing private and municipal and non-municipal permitted-to-take-groundwater holders, although adverse effects are not anticipated with the implementation of mitigation measures, as required.

Note:
E.A. = Environmental Assessment
YSA = Yonge Street Aquifer

Table B-4. Evaluation of Alternatives for Green Lane Water Treatment Plant – Social Environment Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect of Noise/Vibration on Sensitive Receptors	An evaluation of effects on noise-sensitive receptors, based on the following: 1. Presence of sensitive receptors and duration of construction schedule 2. Disruption during the operations phase	1. Potential effects – Construction: No existing residences, businesses, or community, institutional, and recreational facilities are within the Well Area. This area also has more ambient noise from higher traffic volumes compared with the other well areas; therefore, minimal effects from noise associated with the well house construction are anticipated. Mitigation measures – Construction: Implement construction-related Best Management Practices (that is, limit heavy construction to daytime hours, use of construction equipment that meets the requirements of the Ministry of Environment, Conservation and Parks Construction Equipment Publication (NPC-115), and adhering to the Town of East Gwillimbury’s Noise By-law (2004-80). 2. Potential effects – Operation: No existing residences, businesses, or community, institutional, and recreational facilities are within the Well Area. This area also has more ambient noise from higher traffic volumes compared with the other well areas; therefore, minimal effects from noise associated the operations phase are anticipated. Mitigation measures – Operation: Potential noise effects during the operations phase will be minimized through the design and implementation of noise mitigation measures at the well house. Net effects: Area has the fewest sensitive receptors, and noise effects during operations will be minimized through the use of mitigation measures. No Preference	Same as the Original E.A. Study No Preference
Social Environment Category Ranking		No Preference Same sensitive receptors will be disturbed during construction; however, noise effects during operations will be minimized through the use of mitigation measures.	No Preference Same sensitive receptors will be disturbed during construction; however, noise effects during operations will be minimized through the use of mitigation measures.

Note:
E.A. = Environmental Assessment

Table B-5. Evaluation of Alternatives for Green Lane Water Treatment Plant – Cultural Environment Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Effect on Cultural Heritage Landscapes and Built Heritage Resources	An evaluation of effects on cultural heritage resources, based on the following: 1. Presence of cultural heritage landscapes 2. Presence of built heritage resources	1. Potential effects: Effects on a small area of one cultural heritage landscape (agricultural land) is considered minimal because the proposed area is owned by a developer with plans for future residential and commercial development. Mitigation measures: No mitigation required. 2. Potential effects: No potential effects on built heritage resources are anticipated, because there are no registered built heritage resources within the Alternative Well Area. Mitigation measures: None required. Net effects: Effects are considered minimal because the well house will be designed in a manner that fits into the surroundings. No Preference	Same as the Original E.A. Study No Preference
Effect on Potential Archaeological Resources	An evaluation of effects on archaeological resources, including the following: 1. Presence of areas with archaeological potential (that is, lands with potential archaeological resources) are affected	1. Potential effects: The Stage 2 Archaeological Assessment did not identify archaeological sites or material within the Well Area. Mitigation measures: None required. Net effects: There are no concerns for the impact to archaeological sites by the proposed development, and no further archaeological assessment of the property is required. No Preference	Same as the Original E.A. Study No Preference
Cultural Environment Category Ranking		No Preference Minimal effects on cultural heritage landscapes and no concerns for the impact to archaeological sites by the proposed development; as such, no further archaeological assessment of the property is required.	No Preference Minimal effects on cultural heritage landscapes and no concerns for the impact to archaeological sites by the proposed development; as such, no further archaeological assessment of the property is required.

Note:
E.A. = Environmental Assessment

Table B-6. Evaluation of Alternatives for Green Lane Water Treatment Plant – Financial Category

Category	Indicator	Alternative A – Original Plan According to the Class E.A.	Alternative B – Proposed Concept According to this E.A. Addendum
Capital Costs (Lifecycle cost per cubic metre)	An evaluation of the capital and operation and maintenance costs, including the following: 1. Costs associated with land acquisition (in 2012 dollars) 2. Estimated Capital Cost 3. Lifecycle Cost (20-year)	1. Same property acquired. 2. Estimated capital cost: Lower overall capital costs expected but higher capital costs per proposed capacity. 3. Lifecycle cost estimate: Same operational and maintenance cost expected based on volume of water produced relative to other Well Areas. Moderately Preferred	1. Same property acquired. 2. Estimated capital cost: Higher overall capital costs expected but lower capital costs per proposed capacity. 3. Lifecycle cost estimate: Lower operational and maintenance cost expected based on volume of water produced relative to other Well Areas (new installation, no need for frequent well rehabilitation, and production centralization) Most Preferred
Financial Category Ranking		Not Preferred Higher capital costs based on production capacity, and higher operation costs based on volume of water produced.	Most Preferred Lower capital costs based on production capacity, and lower operation costs based on volume of water produced.

Note:
E.A. = Environmental Assessment

Appendix C

E.A. Addendum Consultation



Appendix C. E.A. Addendum Consultation

- C.1 (Updated) Project Contact List**
- C.2 E.A. Addendum Notification**
 - C.2.1 M.E.C.P.
 - C.2.2 Town of East Gwillimbury
 - C.2.3 Town of Newmarket
 - C.2.4 Indigenous Communities (Letter and Email Template)
- C.3 Notice of Addendum**
 - C.3.1 Notice of Addendum
 - C.3.2 Indigenous Communities (Email Template)
- C.4 Correspondences**
 - C.4.1 M.E.C.P.
 - C.4.2 LSRCA
 - C.4.3 Indigenous Communities (Email and Call Log)

Group	Title	First Name	Last Name	Company/ Organization	Department	Job Title	Street	City	Province	Postal Code	Phone	Fax	Email Address	Alternative Email Address	Original EA Contact List	Notification of Addendum	Notice of Addendum	Comments
Agencies	Mr.	Ian	Laing	Central York Fire Services		Fire Chief	984 Gorham Street	Newmarket	ON	L3Y 1L8	905-895-9222	905-895-1900	ilaing@newmarket.ca		YES		2023-06-29	
Agencies	Ms.	Sara	Eddy	Department of Fisheries and Oceans		Senior Habitat Biologist	867 Lakeshore Road	Burlington	ON	L7R 4A6	(905) 336-4535	905-336-4447	Sara.Eddy@dfpo-mpo.gc.ca		YES		2023-06-29	
Agencies				Hydro One			P.O. Box 5700	Markham	ON	L3R 1C8			tpumarkup@hydroone.com		NEW		2023-06-29	Updated based on Stouffville Water System upgrade EA Distribution list
Agencies	Mr.	Taylor	Stevenson	Lake Simcoe Region Conservation Authority		Senior Environmental Regulations/Capital Projects Analyst	120 Bayview Parkway	Newmarket	ON	L3Y 3W3	905-895-1281 ext. 483		t.stevenson@SRCA.on.ca		NEW		2023-06-29	Replaced Rob Badwin
Agencies	Mr.	Trevor	Bell	Ministry of the Environment, Conservation and Parks	Project Review Unit, Environmental Assessment Branch	Regional Environmental Planner	5775 Yonge Street, 8th floor	Toronto	ON	M2M 4J1	437-770-3731		trevor.bell@ontario.ca		NEW	2023-03-08	2023-06-29	Replaced Ms. Mimi Santano Carrasco at MECP
Agencies				Ministry of the Environment, Conservation and Parks	Central Region EA		777 Bay Street, 13th Floor	Toronto	ON	M5G 2E5			eanotification.cregion@ontario.ca		NEW		2023-06-29	Updated based on recent distribution list from off a EA project
Agencies	Ms.	Jocelyn	Beatty	Ministry of Agriculture, Food and Rural Affairs		Rural Planner	6484 Wellington Rd 7	Elora	ON	N0B 1S0	519-846-3405		jocelyn.beatty@ontario.ca		NEW		2023-06-29	Replaced Mr. Arthur Churchyard based on recent Distribution list off of a different EA project
Agencies	Mr.	Ross	Lashbrook	Ministry of Municipal Affairs and Housing		Manager	777 Bay Street, 13th Floor	Toronto	ON	M5G 2E5	416-585-6063	416-585-6882	ross.lashbrook@ontario.ca		NEW		2023-06-29	Replaced Mr. Victor Doyle based on recent distribution list off of a different EA project
Agencies	Mr.	Steven	Strong	Ministry of Natural Resources and Forestry - Aurora District		Senior District Planner	50 Bloomington Rd	Aurora	ON	L4G 0L8	905-713-7366	905-713-7360	steven.strong@ontario.ca		NEW		2023-06-29	Replaced Ms. Jackie Burkart based on recent distribution list off of a different EA project
Agencies	Ms.	Karla	Barboza	Ministry of Tourism, Culture and Sport		Team Lead - Heritage (Acting)	401 Bay St, Suite 1700	Toronto	ON	M7A 0A7	416-314-7120		karla.barboza@ontario.ca		NEW		2023-06-29	Replaced Ms. Rosi Ziger based on recent distribution list off of a different EA project
Agencies	Mr.	Richard	Ubbens	Toronto Region Conservation Authority		Director, Conservation Parks and Lands	101 Exchange Avenue	Vaughan	ON	L4K 5B6	437-880-1922		Richard.Ubbens@trca.ca		NEW		2023-06-29	Included instead of Ms. Carolyn Woodland
Agencies	Mr.	Sameer	Dhalla	Toronto Region Conservation Authority		Director, Development and Engineering Services	101 Exchange Avenue	Vaughan	ON	L4K 5B6	437-880-2279		Sameer.Dhalla@trca.ca		NEW		2023-06-29	Included instead of Ms. Chandra Sharma
Agencies	Ms.	Harsimrat	Pruthi	Toronto Region Conservation Authority		Senior Planner, Infrastructure Planning and Permits, Development and Engineering Services	101 Exchange Avenue	Vaughan	ON	L4K 5B6	416 661-6600, x5744		harsimrat.pruthi@trca.ca		NEW		2023-06-29	Contact suggested by York Region
Agencies	Ms.	Sullivan	Kristen	Toronto Region Conservation Authority		Planner	101 Exchange Avenue	Vaughan	ON	L4K 5B6			Kristen.sullivan@trca.ca		NEW		2023-06-29	Added
Agencies	Mr.	Marco	Rammuno	Town of Aurora		Director, Planning and Development Services	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 4340		mramunno@aurora.ca		YES		2023-06-29	
Agencies	Ms.	Patricia	Rossi	Town of Aurora		Administrative Assistant, Planning and Development Services	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 4340	905-726-4736	prossi@aurora.ca		NEW		2023-06-29	
Agencies		Afshin	Bazar	Town of Aurora		Manager, Building and Development Services	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 4389		abazar@aurora.ca		YES		2023-06-29	
Agencies	Mr.	Bill	Jean	Town of Aurora		Manager, Building Division/CBO	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 4319		Bjean@aurora.ca		NEW		2023-06-29	
Agencies		Anca	Mihail	Town of Aurora		Manager, Municipal Engineer	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 4383		amihail@e-aurora.ca		YES		2023-06-29	
Agencies	Mr.	Lindsay	Hayworth	Town of Aurora		Supervisor, Water, Wastewater	100 John West Way, Box 1000	Aurora	ON	L4G 6J1	905-727-3123 ext. 3442		LHayworth@aurora.ca		NEW		2023-06-29	
Agencies	Ms.	Iustina	Voinea	Town of Aurora		Program Coordinator, Water/Wastewater/Stormwater	100 John West Way, Box 1000	Aurora	ON	L4G 6J1			Voinea@aurora.ca		NEW		2023-06-29	
Agencies	Mr.	Phil	Dawson	Town of East Gwillimbury		Fire Chief	19314 Yonge Street	Holland	ON	L9M 1L5	905-853-8842 ext.1107	905-853-8664	pdawson@eastgwillimbury.ca		YES		2023-06-29	
Agencies	Ms.	Kristy	Baldy	Town of East Gwillimbury		Manager, Water & Wastewater	19000 Leslie Street	Sharon	ON	LOG 1V0	905-955-7351		kbaldy@eastgwillimbury.ca		NEW	2023-03-03	2023-06-29	Contact suggested by other member from same agency.
Agencies	Mr.	Jeff	Meggitt	Town of East Gwillimbury		Director of Operations	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 ext. 1259	905-478-2808	jmeggitt@eastgwillimbury.ca		NEW	2023-03-03	2023-06-29	Replaced Larry Hollett
Agencies	Mr.	Paul	Neuman	Town of East Gwillimbury		Director of Engineering and Environmental Services	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-3819		pneuman@eastgwillimbury.ca		YES	2023-03-03	2023-06-29	
Agencies	Ms.	Margo	Begin	Town of East Gwillimbury		General Manager of Development Services	19000 Leslie Street	Sharon	ON	LOG 1V0			MBegin@eastgwillimbury.ca		NEW	2023-03-03	2023-06-29	Replaced Carolyn Kellington
Agencies	Mr.	Mike	Molinari	Town of East Gwillimbury		General Manager, Community Infrastructure and Env. Services	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-3814		mmolinari@eastgwillimbury.ca		YES	2023-03-03	2023-06-29	
Agencies	Mr.	Kevin	Brake	Town of East Gwillimbury		Development Coordinator	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-1254		kbrake@eastgwillimbury.ca		YES	2023-03-03	2023-06-29	
Agencies	Ms.	Janis	Ingram	Town of East Gwillimbury		General Manager, Legal Services/ Town Solicitor	19000 Leslie Street	Sharon	ON	LOG 1V0			JIngram@eastgwillimbury.ca		NEW	2023-03-03	2023-06-29	Replaced Don Sinclair
Agencies	Mr.	Denny	Boskovski	Town of East Gwillimbury		Asset Management & Capital Programs Manager	19000 Leslie Street	Sharon	ON	LOG 1V0			dboskovski@eastgwillimbury.ca		NEW	2023-03-03	2023-06-29	Contact suggested by other member from same agency.
Agencies	Ms.	Rachel	Prudhomme	Town of Newmarket		Director of Engineering Services	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	905-953-5300 ext. 2501		rprudhomme@newmarket.ca		YES		2023-06-29	
Agencies	Mr.	Mark	Agnoletto	Town of Newmarket		Director, Public Works Services (Acting)	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	905-953-5300 ext. 2551		magnoletto@newmarket.ca		NEW	2023-03-03	2023-06-29	Added based on updated local municipal contact list (Sept.2022). Replace Chris Kalimootoo.
Agencies	Mr.	Rob	Gillis	Town of Newmarket		Manager, Water and Wastewater	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7			rgillis@newmarket.ca		NEW	2023-03-03	2023-06-29	
Agencies	Mr.	Jason	Unger	Town of Newmarket		Director, Planning and Building Services	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	905-895-5193		junger@town.newmarket.on.ca	planning@newmarket.ca	YES	2023-03-03	2023-06-29	Replace Richard Nethery based on local municipal contact list (Sept, 2022
Agencies	Ms.	Janany	Naqulan	Town of Newmarket	Planning and Building Services	Planner, Development	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7			jnaqulan@newmarket.ca		NEW	2023-03-03	2023-06-29	
Agencies	Mr.	Mark	Gregory	Town of Newmarket			395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7					NEW	2023-03-03	2023-06-29	Replaced Rod Smith
Agencies	Ms.	Elizabeth	Crowe	York Catholic District School Board			320 Bloomington Road West,	Aurora	ON	L4G 0M1			elizabeth.crowe@ycdsb.ca		NEW		2023-06-29	Updated based on Stouffville Water System upgrade EA Distribution list
Agencies	Mr.	Gilbert	Luk	York Region District School Board		Manager, Property & System Operations	60 Wellington Street West	Aurora	ON	L4G 3H2	905-727-0022 ext. 2439		gilbert.luk@yrdsb.ca		YES		2023-06-29	Updated the job title
Agencies	Ms.	Elizabeth	Terrell-Tracey	York Region District School Board			60 Wellington Street West	Aurora	ON	L4G 3H2			egun@yrdsb.ca		NEW		2023-06-29	Updated based on Stouffville Water System upgrade EA Distribution list
Agencies	Mr.	Joe	La Marca	York Region Health Services Department		Director of Health Protection, Community & Health	17250 Yonge Street	Newmarket	ON	L3Y 6Z1	905-830-4444 ext. 74025		joelamarca@york.ca		YES		2023-06-29	
Agencies	Ms.	Susan	Wood	York Region Paramedic Services		Deputy Chief	17250 Yonge Street	Newmarket	ON	L3Y 6Z1	905-830-4444 x 74775	905-895-5143	susan.wood@york.ca		YES		2023-06-29	
Agencies	Ms.	Bernadette	Searle	York Regional Police		Senior Director, Capital Projects	47 Don Hillcock Dr	Aurora	ON	L4G 057	905-830-0303 x7637	905-895-4149	5579@yrp.ca		YES		2023-06-29	
Agencies	Mr.	Eric	Jolliffe	York Regional Police		Chief	47 Don Hillcock Dr	Aurora	ON	L4G 057	1-866-876-5423		info@yrp.ca		NEW		2023-06-29	Included based on other recent EA Project Distribution list
Indigenous Community	Chief	David	Mowat	Alderville First Nation		Chief	11696 Second Line	Roseneath	ON	K0K 2X0	905-352-2011	905-352-3242	dmowat@alderville.ca		NEW	2022-01-18	2023-06-29	Replace previous Chief James Marsden
Indigenous Community	Chief	Joanne P.	Sandy	Beausoleil First Nation		Chief	11 O'Gemma Miikaan	Christian Island	ON	L9M 0A9	705-247-2051	705-247-2239	bfnchief@chhimissing.ca	council@chhimissing.ca	NEW	2022-01-18	2023-06-29	Replace previous Chief Roland Monague Jr.
Indigenous Community	Ms.	Jane	Copegog	Beausoleil First Nation		Councillor	11 O'Gemma Miikaan	Christian Island	ON	L9M 0A9	705-247-2051	705-247-2239	jcopegog@chhimissing.ca	lands@chhimissing.ca	NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Ms.	Susan	Copegog	Beausoleil First Nation		Community Consultation	11 O'Gemma Miikaan	Christian Island	ON	L9M 0A9			consultations@chhimissing.ca		NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Mr.	Anthony	Lewis	Beausoleil First Nation		Lands Manager	11 O'Gemma Miikaan	Christian Island	ON	L9M 0A9	705-247-8981 Ext. 256	705-247-2239	alewis@chhimissing.ca		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Chief	Donna	Big Canoe	Chippewas of Georgina Island First Nation			RR#2 PO Box N-13	Sutton West	ON	L0E 1R0	705-437-1337	705-437-4597	donna.bigcanoe@georginaisland.com		YES	2022-01-18	2023-06-29	
Indigenous Community	Ms.	Natasha	Charles	Chippewas of Georgina Island First Nation		Consultation	RR#2 PO Box N-13	Sutton West	ON	L0E 1R0			natasha.charles@georginaisland.com		NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Mr.	JL	Porte	Chippewas of Georgina Island First Nation		Invasive Species Coordinator	RR#2 PO Box N-13	Sutton West	ON	L0E 1R0	705-437-1337 ext.2285		jlporte@georginaisland.com		NEW	2022-01-18	2023-06-29	
Indigenous Community	Mr.	Brandon	Stiles	Chippewas of Georgina Island First Nation		Environmental/By-Law Coordinator	RR#2 PO Box N-13	Sutton West	ON	L0E 1R0	705-437-1337 ext.2233		brandon.stiles@georginaisland.com		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Ms.	Sylvia	McCue	Chippewas of Georgina Island First Nation		Lands Manager	RR#2 PO Box N-13	Sutton West	ON	L0E 1R0	705-437-3614		sylvia.mccue@georginaisland.com		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Chief	Ted	Williams	Chippewas of Minjikaning (Chippewas of Rama)		Chief	5884 Rama Road Suite 200	Rama	ON	L0K 1T0	(705) 325-3611		admin@ramafirstnation.ca		NEW	2022-01-18	2023-06-29	Replace previous chief Rodney Noganosh
Indigenous Community	Ms.	Barbara	Simcoe	Chippewas of Minjikaning (Chippewas of Rama)		Lands and Membership Manager	5884 Rama Road Suite 200	Rama	ON	L0K 1T0	(705) 325-3611 ext 1518	(705) 325-9664	barbaras@ramafirstnation.ca	lands@ramafirstnation.ca	NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Mr.	Sharday	James	Chippewas of Minjikaning (Chippewas of Rama)		Community Consultation Worker, Communications	5884 Rama Road Suite 200	Rama	ON	L0K 1T0	705-325-3611,1633		sharday@ramafirstnation.ca		NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Ms.	Kaitlin	Hill	Curve Lake First Nation			22 Winookeeda Road	Curve Lake	ON	K0L 1R0	705-657-8045	705-657-8708	kaitlin@curvelake.ca		NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Chief	Keith	Knott	Curve Lake First Nation			22 Winookeeda Road	Curve Lake	ON	K0L 1R0	705-657-8045	705-657-8708	keith@curvelake.ca		NEW	2022-01-18	2023-06-29	Replace previous Chief Phyllis Williams
Indigenous Community	Ms.	Deborah	Jacobs	Curve Lake First Nation	Lands & Environment Committee		22 Winookeeda Road	Curve Lake	ON	K0L 1R0	705-657-8045	705-657-8708	deborah@curvelake.ca		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Mr.	Tom	Cowie	Hiawatha First Nation	Consultation & Land Resource Development	Lands/Resource Consultation	431 Hiawatha Line	Hiawatha	ON	K9J 0E6	(705) 295-4421 Ext. 216		tcowie@hiawathafn.ca	lands@hiawathafn.ca	NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Mr.	Sean	Davison	Hiawatha First Nation	Consultation & Land Resource Development	Lands/Resource Consultation	431 Hiawatha Line	Hiawatha	ON	K9J 0E6	(705) 295-4421 Ext. 215		sdavison@hiawathafn.ca		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Ms.	Mandy	McGonigle	Hiawatha First Nation	Consultation & Land Resource Development	Archaeological Liaison	431 Hiawatha Line	Hiawatha	ON	K9J 0E6	(705) 295-4421 Ext. 225		mmcgonigle@hiawathafn.ca		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community	Chief	Laurie	Carr	Hiawatha First Nation			431 Hiawatha Line	Hiawatha	ON	K9J 0E6	705-295-4421	705-295-4424	chiefcarr@hiawathafn.ca	info@hiawathafn.ca	NEW	2022-01-18	2023-06-29	Replace previous Chief Greg Cowie
Indigenous Community	Ms.	Lori-Jeanne	Bolduc	Huron Wendat Nation		Coordinator of Projects - Ontario	255, place Chef Michel Laveau	Wendake	QC	G0A 4V0	418-843-3767, Ext 2211		lori-jeanne.bolduc@wendake.ca		NEW	2022-01-18	2023-06-29	Contact added from different project
Indigenous Community	Grand Chief	Rémy	Vincent	Huron Wendat Nation			255, place Chef Michel Laveau	Wendake	QC	G0A 4V0	418-843-3767	418-842-1108		administration@cnhw.qc.ca	NEW	2022-01-18	2023-06-29	Replace previous Grand Chief Konrad Sioui
Indigenous Community	Mr.	Leroy	Hill	Iroquois (Haudenosaunee) Confederacy		Secretary	16 Sunrise Court, Suite 600 P.O. Box 714	Ohsweken	ON	N0A 1M0	905-765-1749	905-765-9193	1749resource@gmail.com		YES	2022-01-18	2023-06-29	
Indigenous Community				Iroquois (Haudenosaunee) Confederacy	Haudenosaunee Development Institute		16 Sunrise Court, Suite 600 P.O. Box 714	Ohsweken	ON	N0A 1M0	519-445-4222	519-445-2389	info@hdi.land		NEW	2022-01-18	2023-06-29	Added based on Community Website information
Indigenous Community				Kawartha-Nishnawbe First Nation of Burleigh Falls	Kawartha Nishnawbe Council		100 Back Street, Unit 200	Thunder Bay	ON	P7J 1L2			kawarthanishnawbecouncil@outlook.com	nodin.webb@hotmail.com	NEW	2022-01-18	2023-06-29	
Indigenous Community				Métis Nation of Ontario	Métis Consultation Unit		1100 –											

		Title	First Name	Last Name	Company/ Organization	Department	Job Title	Street	City	Province	Postal Code	Phone	Fax	Email Address	Alternative Email Address	Original EA Contact List	Notification of Addendum	Notice of Addendum	Comments	
Individuals and Groups	Mr.	Peter	Piersol		Aurora Environmental Advisory Committee		Chair	1 Municipal Drive, Box 1000	Aurora	ON	L4G 6J1	905-841-3069		piersolo@sympatico.ca		YES		2023-06-29		
Individuals and Groups	Mr.	Brian	Veloso		Bayview Greens Ratepayers			12 Birkshire Drive	Aurora	ON	L4G 7P3	905-727-9971		brian_veloso@hotmail.com		YES		2023-06-29		
Individuals and Groups	Ms.	Teri	Hardy		East Gwillimbury Environmental Advisory Committee			1109 Ravenshoe Road	Queensville	ON	LOG 1R0	416-662-3235		tbridgeford@hotmail.com		YES		2023-06-29		
Individuals and Groups	Mr.	Jamie	Reaume		Holland Marsh Grower's Association		Executive Director	12-16715 Yonge Street, Suite 296	Newmarket	ON	L3X 1X4	905-251-6786				YES		2023-06-29		
Individuals and Groups	Ms.	Annabel	Slaight		Ladies of the Lake Conservation Association		Co-Founder	120 Primeau Drive	Aurora	ON	L4G 6Z4			ladies@laketadies.ca		YES		2023-06-29		
Individuals and Groups	Mr.	Rod	Leonard		McClenny Drive Ratepayers Association		Chair	52 McClenny Drive	Aurora	ON	L4G 5P5			rodgolf@rogers.com		YES		2023-06-29		
Individuals and Groups	Mr.	Bill	Wheeler		New Leaf: Living and Learning Together Inc.		Director of Property Management, Farm and Property Maintenance	19601 Leslie Street, P.O Box 230	Queensville	ON	LOG 1R0	905-478-1418 x 207		bill@newleaf.ca		YES		2023-06-29		
Individuals and Groups					Newmarket Environmental Advisory Committee		Chair	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7			clerks@newmarket.ca		YES		2023-06-29		
Individuals and Groups	Ms.	Linda	Hillingsworth		Newmarket Heritage Neighbourhood Association		Chair	395 Mulock Drive	Newmarket	ON	L3Y 4X7	905-853-5558				YES		2023-06-29		
Individuals and Groups	Mr.	Mark	Wales		Ontario Federation of Agriculture		President	100 Stone Road West, Suite 206	Guelph	ON	N1G 5L3	1-800-668-3276	519-821-8810			YES		2023-06-29		
Individuals and Groups					Ponds The Fishing Preserve			5206 Queensville Sideroad	Mount Albert	ON	LOG 1M0	905-473-5291				YES		2023-06-29		
Individuals and Groups	Mr.	Ken	Geddes		Primerose Trout Farm			595646 Blind Line	Shelburne	ON	L9V 0Z4	519-925-3846		troutfarm@bell.net		YES		2023-06-29		
Individuals and Groups	Mr.	Warren	McClure		Ratepayers Association of Yonge Street South- R.A.Y.S		President	14 Steeplechase Ave.	Aurora	ON	L4G 6W5			wmcclure@rogers.com		YES		2023-06-29		
Individuals and Groups					Ratepayers of Aurora Yonge Street South			76 Elderberry Trail	Aurora	ON	L4G 6X2	905-713-1474				YES		2023-06-29		
Individuals and Groups					Save the Oak Ridges Moraine Coalition			PO Box #3206	Prince Albert	ON	L9L 1C2			info@stormcoalition.org		YES		2023-06-29		
Individuals and Groups	Mr.	Paul	Harpley		South Lake Simcoe Naturalists		President	Box 1044	Sutton West	ON	L0E 1R0	905-722-8021		Paul@harpley.ca		YES		2023-06-29		
Individuals and Groups	Ms.	Susan	Morton		Wells Street Neighbours			78 Wells Street	Aurora	ON	L4G 1S9			wellstneighbours@hotmail.com		YES		2023-06-29		
Individuals and Groups	Mr.	Brent	Kopperson		Windfall Ecology Centre			Sheppard House, 93A industrial Parkway South	Aurora	ON	L4G 3V6	905-727-0491	905-727-0491	info@windfallcentre.ca		YES		2023-06-29		
Individuals and Groups	Mr.	Brian	Peterkin		York Environmental Stewardship Council			50 Bloomington Road	Aurora	ON	L4G 0L8	905-713-7732	905-713-7361	brian.peterkin@ontario.ca		YES		2023-06-29		
Individuals and Groups	Ms.	Sylvia	Bowman		York Simcoe Naturalists			P.O. Box 1464	Bradford	ON	L3Z 2B7	905-896-9928		sylvia.bowman1@gmail.com		YES		2023-06-29		
Local and Regional Mayors and Councilors	Mr.	Gino	Rosati		City of Vaughan		Local and Regional Councillor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	905-832-2281 ext. 8441	905-832-8582	gino.rosati@vaughan.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Linda	D Jackson		City of Vaughan		Local and Regional Councillor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	905-832-2281 ext. 8085	905-832-8538	linda.jackson@vaughan.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Mario	Ferri		City of Vaughan		Local and Regional Councillor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	905-832-2281 ext. 8999		mario.ferri@vaughan.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Mario	G. Racco		City of Vaughan		Local and Regional Councillor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	905-832-2281 ext. 8960		MarioG.racco@vaughan.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Maurizio	Bevilacqua		City of Vaughan		Mayor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	Canada	905-832-8585 ext. 8088	905-832-8538	maurizio.bevilacqua@vaughan.ca		NEW		2023-06-29	Update per current council member list
Local and Regional Mayors and Councilors	Mr.	Michael	Di Biase		City of Vaughan		Regional Councillor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	Canada	905-832-8585 ext. 8960	905-832-8517	michael.dibiase@vaughan.ca		NEW		2023-06-29	Update per current council member list
Local and Regional Mayors and Councilors	Mr.	Stevem	Del Duca		City of Vaughan		Mayor	2141 Major Mackenzie Drive	Vaughan	ON	L6A 1T1	905-832-2281 ext. 8888		mayor@vaughan.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Harold	Kim		Town of Aurora		Councillor- Ward 6	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3095		hkim@aurora.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	John	Gallo		Town of Aurora		Councilor- Ward 5	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3093				NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Michael	Thompson		Town of Aurora		Councilor- Ward 4	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3092		mthompson@aurora.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Rachel	Gilliland		Town of Aurora		Councilor- Ward 2	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3094		rgilliland@aurora.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Ron	Weese		Town of Aurora		Councilor- Ward 1	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3090				NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Tom	Mrakas		Town of Aurora		Mayor	100 John West Way, Box 100	Aurora	ON	L4G 6J1	905-726-4746		mayor@aurora.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Wendy	Gaertner		Town of Aurora		Councilor- Ward 3	100 John West Way, Box 100	Aurora	ON	L4G 6J1	365-500-3091		wgaertner@aurora.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Brian	Johns		Town of East Gwillimbury		Councilor- Ward 2	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 x3801		bjohns@eastgwillimbury.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Loralea	Carruthers		Town of East Gwillimbury		Councilor- Ward 1	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 x3808		lcarruthers@eastgwillimbury.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Scott	Crone		Town of East Gwillimbury		Councilor- Ward 3	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 ext. 3802		scrone@eastgwillimbury.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Susan	Lahey		Town of East Gwillimbury		Councilor- Ward 3	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 ext. 3804		slahey@eastgwillimbury.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Tara	Roy-Diclemente		Town of East Gwillimbury		Councilor- Ward 2	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 ext. 3803		troydiclemente@eastgwillimbury.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Terry	Foster		Town of East Gwillimbury		Councilor- Ward 1	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 x3806		tfoster@eastgwillimbury.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Virginia	Hackson		Town of East Gwillimbury		Mayor	19000 Leslie Street	Sharon	ON	LOG 1V0	905-478-4283 x3800		vhackson@eastgwillimbury.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Charlene	Biggerstaff		Town of Georgina		Councilor- Ward 1	26557 Civic Centre Road, RR 2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	mwaddington@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Dale	Genge		Town of Georgina		Councilor- Ward 4	26557 Civic Centre Road, RR2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	fseob@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Dan	Fellini		Town of Georgina		Councilor- Ward 2	26557 Civic Centre Road, RR2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	dfellini@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Dave	Neeson		Town of Georgina		Councilor- Ward 3	26557 Civic Centre Road, RR2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	dneeson@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Lee	Dale		Town of Georgina		Councilor- Ward 5	26557 Civic Centre Road, RR2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	ldale@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Margaret	Quirk		Town of Georgina		Mayor	26557 Civic Centre Road, RR2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	mquirk@georgina.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Naomi	Davison		Town of Georgina		Regional Councillor	26557 Civic Centre Road, RR 2	Keswick	ON	L4P 3G1	905-476-4301	905-476-1475	ndavison@georgina.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Alan	Ho		Town of Markham		Regional Councillor	1011 Town Centre Boulevard	Markham	ON	L3R 9W3	905-948-5112		alan.ho@markham.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Frank	Scarpitti		Town of Markham		Mayor	1011 Town Centre Boulevard	Markham	ON	L3R 9W3	905-475-4872	905-479-7775	fscarpitti@markham.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Jim	Jones		Town of Markham		Regional Councillor	1011 Town Centre Boulevard	Markham	ON	L3R 9W3	905-479-7757		jjones@markham.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Joe	Li		Town of Markham		Regional Councillor	1011 Town Centre Boulevard	Markham	ON	L3R 9W3	905-479-7749		jli@markham.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Michael	Chan		Town of Markham		Deputy Mayor	1011 Town Centre Boulevard	Markham	ON	L3R 9W3	905-475-4892		kwilson@markham.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Bob	Kwapis		Town of Newmarket		Councilor- Ward 5	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	416-799-3942		bkwapis@newmarket.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Christina	Bisanz		Town of Newmarket		Councilor- Ward 7	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	905-717-9059		cbisanz@newmarket.ca		YES		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Mr.	Grace	Simon		Town of Newmarket		Councilor- Ward 1	395 Mulock Drive, PO Box 328, STN Main	Newmarket	ON	L3Y 4X7	905-953-6926		gsimon@newmarket.ca		NEW		2023-06-29	Update per current council member list	
Local and Regional Mayors and Councilors	Ms.	Jane	Twinney	</																

Pellegrino, Maika

Sent:

To:

Cc:

Subject:

Attachments:

Hello Trevor,

Find attached Appendix A1 document and the link for Appendix A2 below.

<https://ifft.jacobs.com/download.aspx?ID=476ce2df-9d83-436b-88d6-cd78f08d8e17&RID=2e3158c2-8331-47a4-8630-4fe31e5bcd7e>

Regards, Maika

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>

Sent: Thursday, March 9, 2023 12:38 PM

To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>

Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hi again Maika,

Can you please provide me with Appendix A: Technical Documents (A.1 Yonge Street Aquifer Well Capacity Update and Proposed Permit to Take Water Amendment Strategy; and A.2 Green Lane Well Site Groundwater Resource Evaluation Report)?

We will need to review these documents as part of our technical review for groundwater.

Thanks,
Trevor

From: Bell, Trevor (MECP)

Sent: March 9, 2023 10:42 AM

To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna

<Yamuna.Vadasarukkai@jacobs.com>

Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Thanks for this Maika. We will review the addendum report and provide any comments by April 7.

Thanks,
Trevor

From: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Sent: March 8, 2023 3:45 PM

To: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>

Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>; Santano Carrasco, Mimi (MNR) <Mimi.SantanoCarrasco@ontario.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>; Lee, Erinn (MECP) <Erinn.Lee2@ontario.ca>; Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>

Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Of course Trevor, the file is attached.

Thank you for the quick response,

Maika

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>

Sent: Wednesday, March 8, 2023 3:43 PM

To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>; Santano Carrasco, Mimi (MNR) <Mimi.SantanoCarrasco@ontario.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>; Lee, Erinn (MECP) <Erinn.Lee2@ontario.ca>; Liu, Chunmei (MECP) <Chunmei.Liu@ontario.ca>

Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hi Maika,

I will be taking care of the review of this project. Can you please send the draft Addendum report, or a link to the report to me for download?

Thanks,
Trevor

From: Santano Carrasco, Mimi (MNRF) <Mimi.SantanoCarrasco@ontario.ca>
Sent: March 8, 2023 10:37 AM
To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>; EA Notices to CRegion (MECP) <eanotification.cregion@ontario.ca>
Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>; Lee, Erinn (MECP) <Erinn.Lee2@ontario.ca>; Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hi Maika,

I have recently moved to the Ministry of Natural Resources and Forestry. Please send all project updates to the Central Region EA Notices email (eanotification.cregion@ontario.ca) and someone will contact you from there. I have also cc'ed our team lead Gavin Battarino, and the staff who are covering for him while he is off. Good luck with the rest of the project!

Cheers,

Mimi

From: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>
Sent: March 8, 2023 10:25 AM
To: Santano Carrasco, Mimi (MNRF) <Mimi.SantanoCarrasco@ontario.ca>
Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>
Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hello Mimi,

Find attached the draft EA Addendum report for review.
Your comments are appreciated,

Thank you, Maika

Maika Pellegrino, M. Eng., P. Eng., PMP
Jacobs | Sr. Project Manager | Water & Wastewater
T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

From: Santano Carrasco, Mimi (MECP) <Mimi.SantanoCarrasco@ontario.ca>
Sent: Wednesday, December 7, 2022 4:09 PM
To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>; Yahoda, Allanna <Allanna.Yahoda@york.ca>
Cc: Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>
Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Good afternoon Allanna,

Thank you for your email regarding the planned Addendum for the Yonge Street Aquifer Well Capacity Restoration Project. MECP has not identified any additional Indigenous communities for consultation, however would like to remind the project team that when communicating with Williams Treaties First Nations communities to copy Kary Sandy Mackenzie - Coordinator WTFN. Additionally, please note that consultation should be with all potentially affected members of the public and review agencies as well as those who were notified in the preparation of the original report; this encompasses newly affected and previously consulted.

Please confirm receipt of this email. Have a great rest of your week.

Cheers,

Mimi



From: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Sent: December 1, 2022 3:38 PM

To: Santano Carrasco, Mimi (MECP) <Mimi.SantanoCarrasco@ontario.ca>

Cc: Yahoda, Allanna <Allanna.Yahoda@york.ca>; Bourque, Andre <Andre.Bourque@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>

Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Good morning Mimi,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying MECP regarding the Class EA Addendum process – please see attached Notification Letter. Indigenous communities/organizations that were consulted during the original EA will also receive notification of the Addendum and invitation to consult prior to the statutory public notification. Please advise of any additional details or Indigenous communities/organizations that should be considered in the Class EA Addendum process.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York

Capital Planning and Delivery, Public Works

17250 Yonge St.

Newmarket, Ontario L3Y 6Z1

allanna.yahoda@york.ca

(905) 830-4444 ext. 75107

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

Upcoming PTO Dec 19 – Jan 6

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NOTICE - This communication may contain confidential and privileged information that is for the sole use of the intended recipient. Any viewing, copying or distribution of, or reliance on this message by unintended recipients is strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and deleting it from your computer.

December 01, 2022

Mimi Santano Carrasco
Environmental Planner
Ontario Ministry of the Environment, Conservation and Parks
Place Nouveau 9th Flr, 5775 Yonge St
Toronto, ON M2M 4J1

Dear Ms. Santano Carrasco,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned since these wells are presenting performance decline after rehabilitation, and it is not feasible to replace these wells at the existing site.
- Green Lane Water Treatment Plant (GLWTP) will have a total capacity of 200 L/s, instead of 105 L/s, in order to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability.
- In addition, the GLWTP will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

The Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts. The Class EA Addendum will be completed in accordance with the Municipal Class Environmental Assessment (MCEA) process (Oct. 2000, as amended 2007, 2011 & 2015). As a stakeholder with key interests in this area, the Region is notifying MECP regarding the Class EA Addendum process. Indigenous communities/organizations that were consulted during the original EA (listed below) will also receive notification of the Addendum and invitation to consult prior to the statutory public notification.

- Alderville First Nation
- Beausoleil First Nation
- Chipewas of Georgina Island First Nation
- Chippewas of Mnjikaning (Chippewas of Rama)
- Curve Lake First Nation
- Hiawatha First Nation
- Huron Wendat Nation
- Iroquois Confederacy
- Williams Treaty First Nations
- Kawartha-Nishnawbe First Nation of Burleigh Falls
- Metis Nation of Ontario
- Metis National Council
- Mississaugas of the New Credit First Nation
- Mississaugas of Scugog Island
- Mohawks of the Bay of Quinte
- Moose Deer Point First Nation
- Six Nations of the Grand River
- Wahta Mohawks

Please contact the undersigned to confirm your interest in the project or to advise of any additional details or Indigenous communities/organizations that should be considered in the Class EA Addendum process. Please also advise if there should be additional or alternate contacts within your organization so that we can update our contact list.

We look forward to hearing from you and working together throughout this Study.

Yours very truly,



Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St.
Newmarket, Ontario L3Y 6Z1
Phone: (905) 830-4444 ext. 75107
Mobile: (289) 716-1471

CC: A. Bourque, M. Pellegrino, Jacobs

Pellegrino, Maika

From: Pellegrino, Maika
Sent: March 3, 2023 9:41 AM
To: jmeggitt@eastgwillimbury.ca
Cc: pneuman@eastgwillimbury.ca; MBegin@eastgwillimbury.ca; mmolinari@eastgwillimbury.ca; kbrake@eastgwillimbury.ca; dboskovski@eastgwillimbury.ca; JIngram@eastgwillimbury.ca; kbaidy@eastgwillimbury.ca; Yahoda, Allanna; Bourque, Andre; Lan, Alana; Bischoff, Meghan
Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)
Attachments: EA Amendment Notification Letter EG 20230302.pdf

Good morning Jeff,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying the Town of East-Gwillimbury regarding the Class EA Addendum process – please see attached Notification Letter. Please advise of any additional details that should be considered in the Class EA Addendum process.

We also want to schedule a meeting with the Town to provide an update regarding the Preliminary Design Services for the Green Lane Water Treatment Plant project. We will be contacting you and Kristy soon with the potential dates.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St.
Newmarket, Ontario L3Y 6Z1
allanna.yahoda@york.ca
(905) 830-4444 ext. 75107

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

March 3, 2023

jmeggitt@eastgwillimbury.ca

Jeff Meggitt
Director of Operations
Town of East Gwillimbury
19000 Leslie Street
Sharon ON, L0G 1V0

Attention: Jeff Meggitt, Director of Operations

Dear Jeff Meggitt:

RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned since these wells are presenting performance decline after rehabilitation, and it is not feasible to replace these wells at the existing site.
- Green Lane Water Treatment Plant (GLWTP) will have a total capacity of 200 L/s, instead of 105 L/s, in order to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability.
- In addition, the GLWTP will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

The Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts. The Class EA Addendum will be completed in accordance with the Municipal Class Environmental Assessment (MCEA) process (Oct. 2000, as amended 2007, 2011 & 2015). As a stakeholder with key interests in this area, the Region is notifying the Town of East Gwillimbury regarding the Class EA Addendum process.

Please contact the undersigned to confirm your interest in the project or to advise of any additional details that should be considered in the Class EA Addendum process. Please also advise if there should be additional or alternate contacts within your organization so that we can update our contact list.

We look forward to hearing from you and working together throughout this Study.

Sincerely,

A handwritten signature in cursive script that reads "Allanna Yahoda".

Allanna Yahoda, P. Eng.
Project Manager
The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St., Newmarket, Ontario L3Y 6Z1
Phone: 1-877-464-9675 ext. 75107

CC: Jacobs: André Bourque, Maika Pellegrino
Town of East Gwillimbury: Paul Neuman, Margo Begin, Mike Molinari, Kevin Brake, Denny Boskovski,
Janis Ingram, Kristy Baidy

Pellegrino, Maika

From: Pellegrino, Maika
Sent: March 23, 2023 2:28 PM
To: 'Rob Gillis'
Cc: 'Mark Gregory'; 'Mark Agnoletto'; 'Jason Unger'; 'Janany Nagulan'; 'Yahoda, Allanna'; 'Lan, Alana'; Bourque, Andre; Bischoff, Meghan; Quail, Justin; Vokins, Ron; Walker, Richard
Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hello Rob,

Find the answers to your questions below in red.

We also want to schedule a meeting with the Town to provide an update regarding the Preliminary Design Services for the Green Lane Water Treatment Plant project. We will be contacting you with the potential dates soon.

Should you have any questions, please do not hesitate to contact me.

Maika

Maika Pellegrino, M. Eng., P. Eng., PMP
Jacobs | Sr. Project Manager | Water & Wastewater
T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

From: Pellegrino, Maika
Sent: Tuesday, March 7, 2023 3:07 PM
To: Rob Gillis <rgillis@newmarket.ca>
Cc: Mark Gregory <mgregory@newmarket.ca>; Mark Agnoletto <magnoletto@newmarket.ca>; Jason Unger <junger@newmarket.ca>; Janany Nagulan <jnagulan@newmarket.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>; Bourque, Andre <andre.bourque@jacobs.com>; Bischoff, Meghan <Meghan.Bischoff@jacobs.com>
Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hello Rob,

Thank you for your quick response.
We are working on providing you with answers.
You should hear from us shortly,

Maika

Maika Pellegrino, M. Eng., P. Eng., PMP
Jacobs | Sr. Project Manager | Water & Wastewater
T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

From: Rob Gillis <rgillis@newmarket.ca>

Sent: Monday, March 6, 2023 3:17 PM

To: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Cc: Mark Gregory <mgregory@newmarket.ca>; Mark Agnoletto <magnoletto@newmarket.ca>; Jason Unger <junger@newmarket.ca>; Janany Nagulan <jnagulan@newmarket.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>; Bourque, Andre <Andre.Bourque@jacobs.com>; Bischoff, Meghan <Meghan.Bischoff@jacobs.com>

Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hi Maika,

Thanks for your email and if I may, I have a few questions and comments.

Can you provide additional details around this statement, “Since the completion of the Class EA, **additional updates** were recommended to improve the overall distribution system water quality”? Are you referring the Ground Water Treatment Strategy or different YR initiatives?

Besides the Region Wide Groundwater Treatment Strategy Study (2020), the following was considered:

- Yonge Street Aquifer Well Capacity Update and Proposed Permit to Take Water Amendment Strategy, which includes latest YR well rehabilitation efforts (It will be included as an appendix in the EA Amendment Report)
- Green Lane Test Well Pumping Test Results (2020) (results were integrated into the Green Lane Well Site Groundwater Resource Evaluation Report)
- Green Lane Well Site Groundwater Resource Evaluation (2022) (It will be included as an appendix in the EA Amendment Report)
- York Region's Design Guidelines, Specifications and Standard Drawings (Section 17 updated in 2022) (available at <https://www.york.ca/business/land-development/construction-design-guidelines-and-standards>)

In speaking with my team, we agree with decommissioning Newmarket #15 and Aurora #6 wells.

In the last bullet point in your letter you mention at the GLWTP facility the “provision for **methane** removal treatment in order to improve the distribution system water quality”. Can you provide additional information on the methane issue and if it is present, what does the treatment look like and what implications it may have on water quality?

Methane is not a problem at this stage. Although the methane levels at Green Lane wells slightly exceed the MECP aesthetic objective of 3.0 L/m³ on certain occasions (readings range from 1.1 to 3.7 L/m³, measured as part of the Green Lane Well Site Groundwater Resource Evaluation), the recorded methane levels are considerably less than the explosive warning threshold of 10 mg/L (approximately 18 L/m³) when treatment is required per York Region's Design Guidelines, Specifications and Standard Drawings (Section 17 updated in 2022). A reserved space for methane treatment will be considered in case the methane concentration from the Green Lane wells increases in the future.

Also, if methane is an issue at the GLWTP has the naturally occurring ammonia levels in the raw water been considered and can you provide any additional information on how it may or may not affect distribution system water quality?

The ammonia levels at Green Lane wells ranged from 0.17 to 0.31 mg/L. The pilot performance study performance completed by Jacobs included SDS tests and biostability. SDS tests showed both chlorine and

chloramine decay across 5 days remained above the minimum free chlorine and monochloramine levels required for systems that use chlorine and chloramine for secondary disinfection.

Thanks
Rob



Rob Gillis
Manager, Water/Wastewater | Public Works Services
905-953-5300 x2553 | rgillis@newmarket.ca
newmarket.ca | heynewmarket.ca
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From: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>
Sent: March 3, 2023 10:08 AM
To: Rob Gillis <rgillis@newmarket.ca>
Cc: Mark Gregory <mgregory@newmarket.ca>; Mark Agnoletto <magnoletto@newmarket.ca>; Jason Unger <junger@newmarket.ca>; Janany Nagulan <jnagulan@newmarket.ca>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>; Bourque, Andre <Andre.Bourque@jacobs.com>; Bischoff, Meghan <Meghan.Bischoff@jacobs.com>
Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

CAUTION: This email originated outside of the Town of Newmarket. **DO NOT** click links or open attachments unless you recognize the sender and trusted content.

Good morning Rob,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying the Town of Newmarket regarding the Class EA Addendum process – please see attached Notification Letter. Please advise of any additional details that should be considered in the Class EA Addendum process.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York

Capital Planning and Delivery, Public Works

17250 Yonge St.

Newmarket, Ontario L3Y 6Z1

allanna.yahoda@york.ca

(905) 830-4444 ext. 75107

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

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March 3, 2023

rgillis@newmarket.ca

Rob Gillis
Manager, Water and Wastewater
Town of Newmarket
395 Mulock Drive, PO Box 328, STN Main
Newmarket ON, L3Y 4X7

Attention: Rob Gillis, Manager, Water and Wastewater

Dear Rob Gillis:

RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned since these wells are presenting performance decline after rehabilitation, and it is not feasible to replace these wells at the existing site.
- Green Lane Water Treatment Plant (GLWTP) will have a total capacity of 200 L/s, instead of 105 L/s, in order to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability.
- In addition, the GLWTP will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

The Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts. The Class EA Addendum will be completed in accordance with the Municipal Class Environmental Assessment (MCEA) process (Oct. 2000, as amended 2007, 2011 & 2015). As a stakeholder with key interests in this area, the Region is notifying the Town of Newmarket regarding the Class EA Addendum process.

Please contact the undersigned to confirm your interest in the project or to advise of any additional details that should be considered in the Class EA Addendum process. Please also advise if there should be additional or alternate contacts within your organization so that we can update our contact list.

We look forward to hearing from you and working together throughout this Study.

Sincerely,

A handwritten signature in black ink that reads "Allanna Yahoda". The script is cursive and fluid.

Allanna Yahoda, P. Eng.
Project Manager
The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St., Newmarket, Ontario L3Y 6Z1
Phone: 1-877-464-9675 ext. 75107

CC: Jacobs: André Bourque, Maika Pellegrino
 Town of Newmarket: Mark Agnoletto, Mark Gregory, Jason Unger, Janany Nagulan

Pellegrino, Maika

Cc: Yahoda, Allanna; Bourque, Andre; Pellegrino, Maika; Lan, Alana
Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Good morning *[name]*,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying you regarding the Class EA Addendum process – please see attached Notification Letter. Please confirm your interest in the project, advise of any additional details that should be considered in the Class EA Addendum process and if the community is interested in further consultation.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St.

Newmarket, Ontario L3Y 6Z1

allanna.yahoda@york.ca

(905) 830-4444 ext. 75107

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

Upcoming PTO Dec 19 – Jan 6



December XX, 2022

[Name]
[Title, when available]
[Community]
[Address1]
[Address2]

Dear [Name],

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned since these wells are presenting performance decline after rehabilitation, and it is not feasible to replace these wells at the existing site.
- Green Lane Water Treatment Plant (GLWTP) will have a total capacity of 200 L/s, instead of 105 L/s, in order to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability.
- In addition, the GLWTP will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

The Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts. The Class EA Addendum will be completed in accordance with the Municipal Class Environmental Assessment (MCEA) process (Oct. 2000, as amended 2007, 2011 & 2015). As a stakeholder with key interests in this area, the Region is notifying [Community] regarding the Class EA Addendum process.

Please contact the undersigned to confirm your interest in the project or to advise of any additional details that should be considered in the Class EA Addendum process and if the community is interested in further consultation. Please also advise if there should be additional or alternate contacts within your organization so that we can update our contact list.

We look forward to hearing from you and working together throughout this Study.

Yours very truly,

Allanna Yahoda, P. Eng., Project Manager
The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St., Newmarket, Ontario L3Y 6Z1
Phone: (905) 830-4444 ext. 75107

CC: A. Bourque, M. Pellegrino, Jacobs

Notice of Addendum

Municipal Class Environmental Assessment Study, Yonge Street Aquifer Well Capacity Restoration

In 2016, The Regional Municipality of York completed a Schedule B Municipal Class Environmental Assessment (Class EA) study to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer (YSA). The study recommended rehabilitating existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, and construction of new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7).

A Notice of Completion for the Yonge Street Aquifer Well Capacity Restoration was issued on December 22, 2016.

■ ADDENDUM TO PROJECT FILE ■■■

Since the completion of the Class EA, updates were recommended to improve the overall distribution system water quality, requiring an addendum to the 2016 Project File.

The revised recommended plan includes increasing total capacity at the proposed Green Lane Water Treatment Plant (GLWTP) from 105 L/s to 200 L/s to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability. In addition, the GLWTP will include iron and manganese removal and provisions for future methane removal treatment should it become necessary.

This notice places the Project File Report Addendum on public record for review and comment for 32 calendar days from June 22, 2023 through to July 24, 2023. The Project File Report Addendum is available for public review on york.ca/ea. An accessible version of the material is available upon request. This notice was issued on June 22, 2023.



We invite you to review the Project File Report Addendum as it relates to the revised capacity, the iron and manganese removal treatment and provision for future methane removal treatment and direct written comments to:

Allanna Yahoda
Project Manager

The Regional Municipality of York
17250 Yonge Street, Newmarket, ON L3Y 6Z1
Allanna.Yahoda@york.ca
1-877-464-9675 ext. 75107

For more information on requests for orders, visit Ontario's Class Environmental Assessments: Section 16 Order



Visit york.ca/WaterConstruction for more information about York Region's water and wastewater construction projects. Follow [@YorkRegionGovt](https://twitter.com/YorkRegionGovt) on Facebook and Twitter.

Please see reverse.



Notice of Addendum

Municipal Class Environmental Assessment Study, Yonge Street Aquifer Well Capacity Restoration

In addition, a request to the Minister of the Environment, Conservation and Parks for an order may be made on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights.

Requests should include your full name and contact information and should specify what kind of order is being requested (additional conditions or individual environmental assessment), explain how an order may prevent, mitigate or remedy potential adverse impacts, and can include any supporting information.

Requests must be received by the Ministry by July 24, 2023, and should be addressed in writing to:

Minister David Piccini
Ministry of the Environment
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, ON M7A 2J3
minister.mecp@ontario.ca

and

Director,
Environmental Assessment
Branch Ministry of the Environment,
Conservation and Parks
135 St. Clair Ave. W, 1st Floor
Toronto, ON M4V 1P5
EABDirector@ontario.ca

With a copy to York Region at
The Regional Municipality of
York Clerk's Department
17250 Yonge Street
Newmarket, ON L3Y 6Z1
regionalclerk@york.ca

Personal information submitted (e.g., name, address and phone number) is collected, maintained and disclosed under the authority of the *Environmental Assessment Act* and the *Municipal Freedom of Information and Protection of Privacy Act* for the purposes of creating a public record and consultation purposes. Personal information you submit will become part of a public record that is available to the general public, unless you request that your personal information remain confidential.



Visit york.ca/WaterConstruction for more information about York Region's water and wastewater construction projects. Follow [@YorkRegionGovt](https://twitter.com/YorkRegionGovt) on Facebook and Twitter.

GENERAL INQUIRIES

Access York
York Region
1-877-464-9675
accessyork@york.ca



Pellegrino, Maika

Subject: Notice of Addendum - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Good morning,

The Regional Municipality of York completed the addendum process of the Schedule B Yonge Street Aquifer Well3 Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process3 previously completed in December 2016. Please see attached the Notice of Addendum for this Class EA and the EA3 Addendum Report. The Addendum Report and its appendices will be posted on www.york.ca/ea under the East Gwillimbury dropdown on June 29, 2023. You are invited to review and comment on the Addendum Report for a 30 calendar days period. Written comments and concerns may be provided by July 31, 2023.

You are currently included in the contact list as part of the study's consultation program. If you wish to be removed or would like to suggest an alternative representative, please contact the undersigned. Should we not hear from you, you will continue to be notified of all future consultation opportunities throughout the Class EA Addendum process.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

On behalf of

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St.
Newmarket, Ontario L3Y 6Z1
allanna.yahoda@york.ca
(905) 830-4444 ext. 75107

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater
T: [437.780.2485](tel:437.780.2485) | Maika.Pellegrino@jacobs.com

Pellegrino, Maika

From: Yahoda, Allanna <Allanna.Yahoda@york.ca>
Sent: April 5, 2023 3:55 PM
To: Bell, Trevor (MECP)
Cc: Battarino, Gavin (MECP); Dugas, Celeste (MECP); Aslanyan, Mihran (MECP); Pellegrino, Maika
Subject: [EXTERNAL] RE: Draft Addendum Report - Yonge Street Aquifer Well Capacity Restoration Project Schedule B MCEA

Good Afternoon,

Just confirming receipt of the letter regarding the Draft Addendum Report – Yonge Street Aquifer Well Capacity Restoration Project Schedule B MCEA.

On my first read through, I do not have any questions but we will reach out should any come up.

Have a great evening.

Allanna

Our working hours may be different. Please do not feel obligated to reply outside of your scheduled working hours. Let's work together to help foster healthy work-life boundaries.

Allanna Yahoda, P.Eng. (she/her) | Project Manager
Capital Planning & Delivery, Public Works

C:289-716-1471

Our Mission: **Working together to serve our thriving communities – today and tomorrow**

From: Bell, Trevor (MECP) <Trevor.Bell@ontario.ca>
Sent: Wednesday, April 5, 2023 3:40 PM
To: Yahoda, Allanna <Allanna.Yahoda@york.ca>
Cc: Battarino, Gavin (MECP) <Gavin.Battarino@ontario.ca>; Dugas, Celeste (MECP) <Celeste.Dugas@ontario.ca>; Aslanyan, Mihran (MECP) <Mihran.Aslanyan@ontario.ca>; Pellegrino, Maika /TOR <maika.pellegrino@jacobs.com>
Subject: Draft Addendum Report - Yonge Street Aquifer Well Capacity Restoration Project Schedule B MCEA

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Good afternoon,

Please find attached a letter from the Ministry of the Environment, Conservation and Parks, Environmental Assessment Branch, regarding the above mentioned project. Feel free to contact me directly with any questions or concerns you may have.

Sincerely,

Trevor Bell | Regional Environmental Planner

Project Review Unit, Environmental Assessment Branch
Ministry of the Environment, Conservation and Parks
5775 Yonge Street, 8th floor, Toronto ON, M2M 4J1
New Phone: 437-770-3731 | trevor.bell@ontario.ca

Ministry of the Environment, Conservation
and Parks

Ministère de l'Environnement, de la
Protection de la nature et des Parcs

Environmental Assessment Branch

Direction des évaluations environnementales

1st Floor
135 St. Clair Avenue W
Toronto ON M4V 1P5
Tel.: 416 314-8001
Fax.: 416 314-8452

Rez-de-chaussée
135, avenue St. Clair Ouest
Toronto ON M4V 1P5
Tél. : 416 314-8001
Télééc. : 416 314-8452

April 5, 2023

Allanna Yahoda, P. Eng.
Project Manager
Regional Municipality of York
Allanna.Yahoda@york.ca

BY EMAIL ONLY

Re: **Yonge Street Aquifer Well Capacity Restoration Project**
Regional Municipality of York
Schedule B Municipal Class EA
Draft Addendum Report

Dear Ms. Yahoda,

The ministry has reviewed the Draft Addendum Report (draft report) for the Yonge Street Aquifer Well Capacity Restoration Project, dated March 8, 2023, which follows the approved planning process for a Schedule B Municipal Class Environmental Assessment (MCEA).

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project Schedule B MCEA in December 2016, which identified a preferred solution to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer.

We understand that since completion of the 2016 Class EA, changes to the preferred solution have been recommended to improve the overall distribution of system water quality. The draft report documents the proposed changes which include the following:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned since these wells are presenting performance decline after rehabilitation, and it is not feasible to replace these wells at the existing site.
- The Green Lane Water Treatment Plant (GLWTP) will have a total capacity of 200 L/s, instead of 105 L/s, to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability.

- The GLWTP will include iron and manganese removal treatment and provision for methane removal treatment to improve the distribution system water quality.

We have no technical concerns with the draft report. The following comments are offered for your consideration:

Groundwater

1. The groundwater resource evaluation study completed for the Yonge Street Aquifer Well Capacity Restoration Project considered potential issues related to groundwater resources that may be encountered during the implementation of the project at a level appropriate for this stage of the project.

The field methodology and data analysis described in the report are adequate. The recommendations provided within the report should be implemented during next stages of the project including further investigation, field verification and monitoring to confirm the potential impacts to private and municipal wells.

2. The Yonge Street Aquifer PTTW amendment will be required to include new municipal water well (East Gwillimbury PW1 and PW2) sources. The completed hydrogeological investigation is a good base for the completion of the Hydrogeological Assessment required by the "[Technical Guidance Document for Hydrogeological Studies in Support of Category 3 Applications for Permit to Take Water](#)". The completed work provides substantial evaluation of groundwater resources and will support approval requirements for the municipal wells. The Hydrogeological Assessment can build on the assessments already completed *but will be required to address potential impacts from the actual municipal wells in greater detail*, including potential impacts on local groundwater resources, and on private water well users in the area. The long-term sustainable yield and cumulative impact assessment will need to be completed to assess groundwater source sustainability. Detailed recommendations for monitoring and mitigation measures are also expected at this stage.

Consultation with Indigenous Communities

3. The ministry recommends following-up with identified Indigenous communities that didn't respond to project notifications, to ensure they are aware of the project and their opportunity to participate in consultation and engagement activities. Please include any follow-up attempts in the record of consultation with Indigenous communities.
-

Thank you for the opportunity to review the draft report. Feel free to contact me directly at trevor.bell@ontario.ca if you have any questions about the material above.

Sincerely,

A handwritten signature in black ink, appearing to read 'Trevor Bell', with a stylized flourish at the end.

Trevor Bell
Regional Environmental Planner
Project Review Unit

Cc Gavin Battarino, Supervisor, Project Review Unit, MECP
Celeste Dugas, Manager, York-Durham District Office, MECP
Mihran Aslanyan, Hydrogeologist, Central Region, MECP
Maika Pellegrino, Senior Project Manager, Water & Wastewater, Jacobs

Bischoff, Meghan

From: Pellegrino, Maika
Sent: Thursday, February 2, 2023 4:51 PM
To: Taylor Stevenson
Cc: Yahoda, Allanna; Lan, Alana; McNeice, Jeff; Bourque, Andre; Vadasarukkai, Yamuna; Bischoff, Meghan
Subject: GLWTP-PD - YSA Well Capacity Restoration EA Addendum Report for Review
Attachments: GLWTP-PD_EAAddendum_Draft_R1_20230126.pdf

Hello Taylor,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA and during the Green Lane Predesign project, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

- Aurora Well 6 and Newmarket Well 15 will be decommissioned because these wells are presenting a performance decline after rehabilitation, and it is not feasible to replace these wells or to add filtration treatment at the existing site.
- The total production capacity at the Green Lane site will be 200 L/s instead of 105 L/s, in order to replace the lost capacity from Aurora Well 6 and Newmarket Well 15 and maximize well production capability for system redundancy and operational flexibility.
- In addition, the construction of a new Green Lane Water Treatment Plant (GLWTP) will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

The Draft Addendum Report is attached for review according to the service level agreement. Please advise of any additional details that should be considered in the Class EA Addendum.

Should you have any questions, please do not hesitate to contact me, or the Region.

Thank you, Maika

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: [647.518.8945](tel:647.518.8945) | Maika.Pellegrino@jacobs.com

Bischoff, Meghan

From: Taylor Stevenson <T.Stevenson@lsrca.on.ca>
Sent: Monday, March 6, 2023 9:51 AM
To: Pellegrino, Maika
Cc: Yahoda, Allanna; Lan, Alana; McNeice, Jeff; Bourque, Andre; Vadasarukkai, Yamuna; Bischoff, Meghan
Subject: [EXTERNAL] LSRCA Comments RE: GLWTP-PD - YSA Well Capacity Restoration EA Addendum Report for Review
Attachments: GLWTF - reg areas.pdf; GLWTP - woodland.pdf; Wells 5 and 7- 256 Old Yonge.pdf; GLWTP-PD_EAAddendum_Draft_R1_20230126.pdf

Good morning Maika:

Thank you for circulating our office as part of the subject EA. Please see LSRCA comments below:

Aurora Wells 5 & 7

This site is located within an area that is entirely regulated by the LSRCA under Ontario Regulation 179/06 made pursuant to the Conservation Authorities Act (CA Act). The site includes the following:

- Regulatory floodplain hazard of the East Holland River.
- Lands adjacent to a Provincially Significant Wetland (map attached).
- Significant Groundwater Recharge areas identified under the Lake Simcoe Protection Plan (LSPP).
- WHPA A Capture Zone under Source Water Protection.

Well Area 6 - Green Lane Water Treatment Facility

This well area is partially regulated by the LSRCA under the CA Act (map attached). The area includes the following:

- Regulatory floodplain, meanderbelt, and valleyland (steep slopes) hazards associated with the East Holland River.
- Unevaluated wetland and lands adjacent.
- Significant woodland.
- Significant Groundwater Recharge areas identified under the Lake Simcoe Protection Plan (LSPP).
- Highly Vulnerable Aquifer under the Source Water Protection.

I have outlined LSRCA SWM requirements for both the >500m2 and <500m2 development footprint scenarios.

Greater than 500 m2 of new/re-developed impervious area, than the following criteria are applicable from our April 2022 SWM Guidelines (<https://www.lsrca.on.ca/Shared%20Documents/reports/Technical-Guidelines-for-Stormwater-Management-Submissions.pdf>):

- Water quality
- Water quantity
- Volume control
- Phosphorus reduction
- LSPOP (Lake Simcoe Phosphorus Offsetting Policy – May be applicable)
- Water Balance
- 4.8-DP of the LSPP is applicable.

Less than 500m² of new/re-developed impervious area, than the following criteria are applicable from our April 2022 SWM Guidelines:

- Water quality
- Water quantity
- Best efforts for phosphorus reduction techniques.

Please avoid any fill placement within regional floodplain for 256 Old Yonge St. The floodplain elevation on this site is 251.04 masl.

The LSRCA provides the following suggestions to avoid or mitigate impacts associated with the proposed development:

- Wherever possible, the floodplains and wetlands be avoided to ensure no impacts to natural hazards.
- Existing drainage and conveyance be maintained and or improved with no change to upstream or downstream flows to avoid impacts to control of flooding.
- Quantity and quality storm water management controls be implemented (if applicable) to avoid impacting erosion, floodplains or pollution in accordance with LSRCA Stormwater Management Guidelines.
- Any fill placement in the floodplain be avoided or compensated for with an incremental cut.
- Proper erosion and sediment control measures be undertaken to prevent sediment migration and impact to watercourses.

We recommend further consultation through the detailed design or environmental discipline studies which will be carried out through the design including:

- Drainage and Hydrology;
- Floodplain Studies;
- Erosion and Sediment Control;
- Fluvial Geomorphology;
- Groundwater Impact Assessment;
- Landscape Plan;
- Environmental Impact Studies;
- Engineered Drawings;
- Grading Plans;

Below are comments from **LSRCA's Source Water Protection Hydrogeologist**:

The Lake Simcoe and Couchiching Black River Source Protection Authority (SPA) is aware of the plans to add new municipal wells at Well Area 6 (Green Lane Water Treatment Plant) and we are working with source water protection staff from York Region to ensure the changes to affected drinking water systems (for example, decommissioning of wells and increased production capacity at certain drinking water systems) are captured in future updates to the Source Protection Plan and associated assessment report.

The Clean Water Act (2006) enables source protection plans and assessment reports to be revised using one of four methods:

1. a locally initiated amendment under section 34;
2. a Minister ordered amendment under section 35;
3. an update resulting from the review under section 36; or
4. an amendment under section 51 of O. Reg. 287/07 for minor/administrative revisions.

The method used will depend on factors such as the level of complexity of the revisions and time sensitivity. Well decommissioning may require a notice from the Source Protection Authority if the decommissioning is expected to change the size, shape, or vulnerability score of the wellhead protection area (WHPA). At the discretion of SPA in

collaboration with SPC and effected municipalities, an update to the Source Protection Plan could be made through a S.51 amendment even if decommissioning of the well impacts neighboring systems. This is dependent on the circumstances associated with each proposed amendment.

We also recommend either avoiding the creation of a significant drinking water threat (for example, not storing fuel in the WHPA-A) or, if that can't be avoided then implement risk management measures to manage that threat (for example, construct secondary containment and install bollards around the fuel tank) when constructing the Green Lane Water Treatment Plant (or other infrastructure within the WHPA footprint).

Please contact me if you have any questions or concerns.

Mike Wilson, P.Geo.

Source Water Protection Hydrogeologist
Lake Simcoe Region Conservation Authority
120 Bayview Parkway,
Newmarket, Ontario L3Y 3W3
905-895-1281, ext. 281 | 1-800-465-0437
M.Wilson@LSRCA.on.ca | www.LSRCA.on.ca

Taylor Stevenson, B.A., CAN-CISEC

Coordinator, Infrastructure Permitting
Lake Simcoe Region Conservation Authority
120 Bayview Parkway,
Newmarket, Ontario L3Y 3W3
Office: 905-895-1281, ext. 483 | 1-800-465-0437
Cell: 905-955-1954
t.stevenson@LSRCA.on.ca | www.LSRCA.on.ca

Twitter: @LSRCA

Facebook: LakeSimcoeConservation

Please note: the LSRCA Board of Directors approved a change to our Fee Policy. The new fees took effect on December 30, 2022. Please click [here](#) to view our updated fee schedule.

The information in this message (including attachments) is directed in confidence solely to the person(s) named above and may not be otherwise distributed, copied or disclosed. The message may contain information that is privileged, confidential and exempt from disclosure under the Municipal Freedom of Information and Protection of Privacy Act and by the Personal Information Protection Electronic Documents Act. If you have received this message in error, please notify the sender immediately and delete the message without making a copy. Thank you.

From: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>

Sent: February 2, 2023 4:51 PM

To: Taylor Stevenson <T.Stevenson@lsrca.on.ca>

Cc: Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>; McNeice, Jeff <Jeff.McNeice@york.ca>; Bourque, Andre <Andre.Bourque@jacobs.com>; Vadasarukkai, Yamuna <Yamuna.Vadasarukkai@jacobs.com>; Bischoff, Meghan <Meghan.Bischoff@jacobs.com>

Subject: GLWTP-PD - YSA Well Capacity Restoration EA Addendum Report for Review

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Hello Taylor,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA and during the Green Lane Predesign project, additional updates were recommended to improve the overall distribution system water quality. The following changes were proposed:

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- In addition, the construction of a new Green Lane Water Treatment Plant (GLWTP) will include iron and manganese removal treatment and provision for methane removal treatment in order to improve the distribution system water quality.

Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

The Draft Addendum Report is attached for review according to the service level agreement. Please advise of any additional details that should be considered in the Class EA Addendum.

Should you have any questions, please do not hesitate to contact me, or the Region.

Thank you, Maika

Maika Pellegrino, M. Eng., P. Eng., PMP

Jacobs | Sr. Project Manager | Water & Wastewater

T: [437.780.2485](tel:437.780.2485) | C: 647.518.8945 | Maika.Pellegrino@jacobs.com

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Bischoff, Meghan

From: Community Consultation <consultation@ramafirstnation.ca>
Sent: Thursday, January 19, 2023 3:54 PM
To: Bischoff, Meghan
Subject: [EXTERNAL] Young street Aquifer Restoration Project

Aaniin Meghan,

Thank you for sending this report to us.

I don't see any issue revolving around this project, but I will ask that you stay in contact in the event that something changes.

(Continue to send reports)

All the best,

-BB

Ben Benson

Community Consultation Worker, Legal

Chippewas of Rama First Nation

(ph) 705-325-3611, 1633

(cell)

(fax)

(url) www.ramafirstnation.ca

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By submitting your or another individual's personal information to Chippewas of Rama First Nation, its service providers and agents, you agree and confirm your authority from such other individual, to our collection, use and disclosure of such personal information in accordance with our privacy policy.

 Please consider the environment before printing this e-mail.

Pellegrino, Maika

From: Sean Davison <sdavison@hiawathafn.ca>
Sent: February 21, 2023 2:14 PM
To: Bischoff, Meghan
Cc: Pellegrino, Maika; Bourque, Andre; Yahoda, Allanna; Lan, Alana
Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Thank you Meghan.

If you could keep Hiawatha updated as the project moves forward that would be great for now.

Sean

Miigwech;

Sean Davison
Lands and Resource Consultation
431 Hiawatha Line
Hiawatha First Nation, ON
K9J 0E6
705-295-4421 EXT# 215



"We, the Michisaagiig of Hiawatha First Nation, are a vibrant, proud, independent and healthy people balanced in the richness of our culture and traditional way of life."

Please note that Hiawatha First Nation is receiving an overwhelming number of consultation requests for proposed development in the territory and our response times are delayed as a result. We will respond to consultation requests in the order in which they are received. A delayed response DOES NOT MEAN that your proposal does not require consultation with Hiawatha First Nation.

From: Bischoff, Meghan <Meghan.Bischoff@jacobs.com>
Sent: January 18, 2023 5:52 PM
To: Sean Davison <sdavison@hiawathafn.ca>
Cc: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>; Bourque, Andre <Andre.Bourque@jacobs.com>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>
Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

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Hello Mr. Sean Davison,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells

within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying you regarding the Class EA Addendum process – please see attached Notification Letter. Please confirm your interest in the project, advise of any additional details that should be considered in the Class EA Addendum process and if the community is interested in further consultation.

Please note that the Region has also notified the following members of Hiawatha First Nation:

- Chief Laurie Carr
- Mandy McGonigle
- Tom Cowie

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York

Capital Planning and Delivery, Public Works

17250 Yonge St.

Newmarket, Ontario L3Y 6Z1

allanna.yahoda@york.ca

(905) 830-4444 ext. 75107

Meghan Bischoff | Jacobs | Entry Level Engineering Discipline Specialist

M:+1.905.410.3487 | meghan.bischoff@jacobs.com

1565 Carling Avenue, Suite 200 | Ottawa, ON K1Z 8R1 | Canada

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Bischoff, Meghan

Subject: FW: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)
Attachments: EAAmendmentNotification_20230118.pdf

From: Laura Desaulniers <LauraD@metisnation.org>

Sent: Thursday, January 19, 2023 8:38 AM

To: Yahoda, Allanna <Allanna.Yahoda@york.ca>

Subject: FW: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

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Good Morning Allanna,

Thank you for sending this notification to the Metis Nation of Ontario, however going forward could you use our consultations inbox when you send notifications, this is where the emails get sorted and distributed to the correct regions, the email is consultations@metisnation.org

Thank you!

Kind Regards,
Laura Desaulniers (she/her)
Lands, Resources & Consultations (LRC) Branch Coordinator
Métis Nation of Ontario
Thunder Bay, ON
E: Laurad@metisnation.org
C: (807) 375 0208
W: www.metisnation.org

From: Bischoff, Meghan [<mailto:Meghan.Bischoff@jacobs.com>]

Sent: January 18, 2023 5:55 PM

To: Jesse Fieldwebster <JesseF@metisnation.org>

Cc: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>; Bourque, Andre <Andre.Bourque@jacobs.com>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>

Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hello Mr. Jesse Fieldwebster,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to

document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying you regarding the Class EA Addendum process – please see attached Notification Letter. Please confirm your interest in the project, advise of any additional details that should be considered in the Class EA Addendum process and if the community is interested in further consultation.

Please note that the Region has also notified the following member/organizations of the Métis Nation of Ontario:

- Linda Norheim
- Métis Consultation Unit

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.

Project Manager

The Regional Municipality of York

Capital Planning and Delivery, Public Works

17250 Yonge St.

Newmarket, Ontario L3Y 6Z1

allanna.yahoda@york.ca

(905) 830-4444 ext. 75107

Meghan Bischoff | Jacobs | Entry Level Engineering Discipline Specialist

M:+1.905.410.3487 | meghan.bischoff@jacobs.com

1565 Carling Avenue, Suite 200 | Ottawa, ON K1Z 8R1 | Canada

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Bischoff, Meghan

From: Yahoda, Allanna <Allanna.Yahoda@york.ca>
Sent: Thursday, January 19, 2023 2:33 PM
To: Abby LaForme
Cc: Mark LaForme; Bischoff, Meghan; Lan, Alana; Pellegrino, Maika; Bourque, Andre
Subject: [EXTERNAL] RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Good Afternoon Abby,

Thank you kindly for the response regarding the Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016). We have noted the request to review the Class EA Addendum and will share when available.

Thank you, have a great afternoon.

Allanna

Our working hours may be different. Please do not feel obligated to reply outside of your scheduled working hours. Let's work together to help foster healthy work-life boundaries.

Allanna Yahoda, P.Eng. (she/her) | Project Manager
Capital Planning & Delivery, Public Works

C:289-716-1471

Our Mission: **Working together to serve our thriving communities – today and tomorrow**

From: Abby LaForme <Abby.LaForme@mncfn.ca>
Sent: Thursday, January 19, 2023 1:44 PM
To: Yahoda, Allanna <Allanna.Yahoda@york.ca>
Cc: Mark LaForme <Mark.LaForme@mncfn.ca>; Bischoff, Meghan <Meghan.bischoff@jacobs.com>; Lan, Alana <Alana.Lan@york.ca>; Pellegrino, Maika /TOR <maika.pellegrino@jacobs.com>; Bourque, Andre/OTT <Andre.Bourque@jacobs.com>
Subject: RE: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

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Good Afternoon Allanna,

My name is Abby (LaForme) Lee, the Acting Consultation Coordinator for the Mississaugas of the Credit First Nation (MCFN), Department of Consultation and Accommodation (DOCA). I have been with MCFN DOCA for the last 3 years and have worked closely with Fawn Sault. So with that, I am very familiar with the consultation process.

Thank you for reaching out to MCFN for Consultation regarding the Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016).

MCFN DOCA has no comments or concerns at this time regarding the said above project.
MCFN DOCA would like to review the Class EA Addendum when completed.

Thank you

Abby (LaForme) Lee
Acting Consultation Coordinator



Mississaugas of the Credit First Nation (MCFN)
Department of Consultation & Accommodation (DOCA)
4065 Highway 6, Hagersville, ON N0A 1H0
Ph: (905) 768 – 4260
Email: Abby.LaForme@mncfn.ca

From: Bischoff, Meghan <Meghan.Bischoff@jacobs.com>
Sent: Wednesday, January 18, 2023 5:58 PM
To: Chief, R Stacey Laforme <Stacey.Laforme@mncfn.ca>; communications <communications@mncfn.ca>
Cc: Pellegrino, Maika <Maika.Pellegrino@jacobs.com>; Bourque, Andre <Andre.Bourque@jacobs.com>; Yahoda, Allanna <Allanna.Yahoda@york.ca>; Lan, Alana <Alana.Lan@york.ca>
Subject: Addendum Notification - Yonge Street Aquifer Well Capacity Restoration Project (2016)

Hello Chief R. Stacey LaForme,

The Regional Municipality of York completed the Yonge Street Aquifer Well Capacity Restoration Project in accordance with the Municipal Class Environmental Assessment (Class EA) process for a Schedule B project in December 2016. The purpose of the Class EA was to identify a recommended plan to restore the full permitted capacity of York Region's wells within the Yonge Street Aquifer. The preferred solution identified was to rehabilitate existing Aurora Well 5, Aurora Well 6 and Newmarket Well 15, in addition to constructing new wells at Well Area 6 (Green Lane Water Treatment Plant) and Well Area 11 (Aurora Well 7). Since the completion of the Class EA, additional updates were recommended to improve the overall distribution system water quality. Therefore, the Region is preparing an addendum to the 2016 Project File to document the reasons for the proposed changes, the potential impacts, and mitigation measures to minimize the impacts.

As a stakeholder with key interests in this area, the Region is notifying you regarding the Class EA Addendum process – please see attached Notification Letter. Please confirm your interest in the project, advise of any additional details that should be considered in the Class EA Addendum process and if the community is interested in further consultation.

Should you have any questions, please do not hesitate to contact me.

Thank you for your input,

Allanna Yahoda, P. Eng.
Project Manager

The Regional Municipality of York
Capital Planning and Delivery, Public Works
17250 Yonge St.
Newmarket, Ontario L3Y 6Z1
allanna.yahoda@york.ca
(905) 830-4444 ext. 75107

Meghan Bischoff | Jacobs | Entry Level Engineering Discipline Specialist

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EA Addendum Notification - Indigenous Consultation
Call Log

Community	Contact			Phone Number	Date of Call	Time	Outcome of Call	Voicemail	Call Notes	Preferred Contact (if noted)
Alderville First Nation	Mr.	Dave	Simpson	905-352-2662	3-Apr-23	15:26	Forwarded to Voicemail	Yes	Left Voicemail.	
Beausoleil First Nation	Mr.	Anthony	Lewis	705-247-8981 Ext. 256	13-Apr-23				Unable to reach - left voicemail with Ms. Jane Copegog	
Chippewas of Georgina Island First Nation	Ms.	Sylvia	McCue	705-437-3614	13-Apr-23	12:39	Call Failed			
Curve Lake First Nation	Ms.	Kaitlin	Hill	705-657-8045	13-Apr-23	12:43	Answer - Call Back	Yes	Got in contact with general line, left voicemail for Kaitlin as she was away.	Confirmed Kaitlin Hill is best contact
					15-May-23	1:40	Answer		New acting is Paige W. - Acknowledged and all documentation was passed along. Paige to follow up if additional information is required.	
Huron Wendat Nation	Ms.	Lori-Jeanne	Bolduc	418-843-3767, Ext 2211	13-Apr-23	12:46	Forwarded to Voicemail	Yes	Left Voicemail.	
Iroquois (Haudenosaunee) Confederacy	Mr.	Leroy	Hill	905-765-1749	13-Apr-23	12:50	Forwarded to Voicemail	Yes	Left Voicemail.	
Kawartha Nishnawbe First Nation				807-623-8228	16-Jun-23	1:14	Answer	Yes	Spoke to Central Office notified of Addendum, was transferred to Erin in Consultations. No answer, left voicemail.	
Mississaugas fo Scugog Island	Ms.	Monica	Sanford	905-985-3337	13-Apr-23	12:55	Call Failed	No Voicemail		
Mohawks of the Bay of Quinte	Chief	Donald	Maracle	613-396-3627	13-Apr-23	1:00	Call Failed	No Voicemail		
Moose Deer Point First Nation	Chief	Ronda	Williams-Lovett	705-375-0532	13-Apr-23	1:10	Forwarded to Voicemail	Yes	Left Voicemail.	
Six Nations of the Grand River	Ms.	Robbin	Vanstone	519-753-3449	13-Apr-23	1:20	Call Failed	No Voicemail		
Wahta Mohawks	Mr.	Scott	Aubichon	705-762-2376	13-Apr-23	1:25	Call Failed	No Voicemail		